

Кабели двигателя, сервопривода и обратной связи

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: ezd@nt-rt.ru || сайт: <https://lutze.nt-rt.ru/>



Motor, Servo and Feedback Cables

LÜTZE supplies flexible and highly flexing motor connection and energy supply cables as well as system-specific servo and feedback cables and low-capacitance cables for efficient power transfer.

LÜTZE servo cables are suitable for all types of drives, however they are particularly effective for motors with frequency convertors. The high dielectric strength of the insulation material and the low dielectric coefficient are advantages offered by the LÜTZE servo cables on the electrical side. Mechanically the servo cables score through outstanding glide properties, strength and temperature-neutral flexibility. This is ideal for use in C-tracks and in harsh

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1×10 1kV SW
Part No. [111126](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Compatible with all major drag chain brands• Compliant with NFPA 79, Article 12.9• Through full PUR jacket and TPE conductor insulation optimally suited, extremely harsh operating conditions, aggressive coolants and lubricants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1×10
Number of conductors	1
Cross-section, metric	10 mm ²
Cross-section AWG	AWG 8
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	black similar to RAL 9005
Outer Ø	8.4 mm
Outer Ø	0.331 inch
Surface	adhesion-free, matte
Weight	13.8 kg/100 m
Weight	93 Lbs/Mft
Cu-Index	9.3 kg/100 m
Cu-Index	62 Lbs/Mft
Cable construction	Without shield, black

Construction Element 1

Element construction	1×10
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1×10
----------------------	------

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PVC feedback cables · shielded

LUTZE SILFLEX® (C) PVC FEEDBACK

Feedback cable for Siemens DRIVE-CLIQ 6FX5008 standard system



Identification

Type SI (C) PVC FB (2×2×AWG26+1×2×AWG22)
Part No. [104341](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Digital feedback cable compatible with Siemens DRIVE-CLIQ standard system• In dry and damp rooms• For flexible applications without compulsory guide |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Largely resistant to oils, greases, acids and bases• Silicone free |

Construction

Description	SILFLEX® (C) PVC FEEDBACK
Number of conductors/cross-section	(2×2×AWG26+1×2×AWG22)
Number of conductors	6
Cross-section, metric	0.14 mm ²
Jacket material	Special PVC
Jacket color	green similar to RAL 6018
Outer Ø	6.8 mm
Outer Ø	0.268 inch
Surface	adhesion-free, matte
Weight	8.5 kg/100 m
Weight	57 Lbs/Mft
Cu-Index	4.2 kg/100 m
Cu-Index	28 Lbs/Mft

Technical data sheet

PVC feedback cables · shielded

Construction Element 1

Element construction	2×2×AWG26
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	green • yellow • blue • pink
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs

Construction Element 2

Element construction	1×2×AWG22
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	red • black
Stranding	conductors stranded in pairs

Overall construction

Overall stranding	elements stranded together
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing Silicone-free Oil resistant grease-resistant acid-resistant alkali-resistant

Technical data

Rated voltage	30 V
Test voltage type	AC 500 V
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-25 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	7.5×D

Technical Data Element 1

Technical data sheet

PVC feedback cables · shielded

Technical Data Element 2

Element construction	1×2×AWG22
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.76 pF/m
Operating capacitance wire-shield	approx.137 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2502
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS and DRIVE-CLiQ are registered trademarks
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for Bosch-Rexroth and other systems

For highest requirements in drive technology



Identification

Type	SU+ (C) PUR FB (9×0,5) 300V
Part No.	110940
INK Description*	INK-0208*

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(9×0.5)
Number of conductors	9
Cross-section, metric	0.5 mm²

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	8.8 mm
Outer Ø	0.347 inch
Surface	adhesion-free, matte
Weight	12.5 kg/100 m
Weight	84 Lbs/Mft
Cu-Index	7.5 kg/100 m
Cu-Index	50 Lbs/Mft

Construction Element 1

Element construction	(9×0.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking standard	DIN 47100
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C

Technical data sheet
PUR feedback cables · C-track compatible · shielded

Torsion ± 30°/m

Technical Data Element 1

Element construction (9×0.5)
Insulation resistance at 20 °C ≥200 MΩ×km
Operating capacitance wire-wire approx.53 pF/m
Operating capacitance wire-shield approx.95 pF/m

Certifications/Standards

Certifications cURus
UL style AWM 20233
Conformity CE
RoHS
REACH
TSCA
Burning behavior according to IEC 60332-1
DIN EN 60332-1-2
VDE 0482 322-1-2
UL 1581 part 1080 VW-1
UL FT1
Halogen free according to DIN EN 60754-1
IEC 60754-1

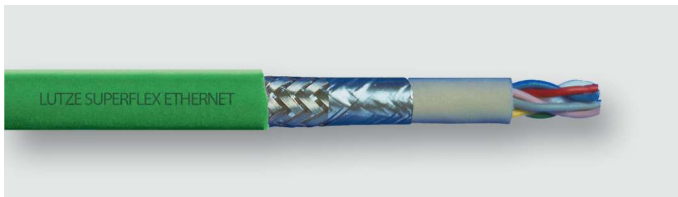
General

Note CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK Encoder cables for Siemens and other systems For highest requirements in drive technology



Identification

Type	SU+(C) PUR FB (2×2×AWG26+1×2×AWG22) 30V
Part No.	104310
SIEMENS designation*	2DC00

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×2×AWG26+1×2×AWG22)
Number of conductors	6
Cross-section, metric	0.15 mm²

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Cross-section AWG	AWG 22
Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	6.8 mm
Outer Ø	0.268 inch
Surface	adhesion-free, matte
Weight	7.3 kg/100 m
Weight	49 Lbs/Mft
Cu-Index	3.4 kg/100 m
Cu-Index	22.78 Lbs/Mft

Construction Element 1

Element construction	2×2×AWG26
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	pink · blue · yellow · green
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	1×2×AWG22
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	red · black
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	layered construction conductors twisted without mechanical stress layer pitch optimised
Overall wrapping	Non-woven material
Overall shield	aluminium-laminated film shield Braid shield

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage	30 V
Test voltage type	AC 500 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	2×2×AWG26
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.52 pF/m
Operating capacitance wire-shield	approx.94 pF/m

Technical Data Element 2

Element construction	1×2×AWG22
Operating capacitance wire-wire	approx.85 pF/m
Operating capacitance wire-shield	approx.153 pF/m

Certifications/Standards

Certifications	cURus AWM II A/B
UL style	AWM 20236
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1

Technical data sheet

PUR feedback cables · C-track compatible · shielded

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS and DRIVE-CLiQ are registered trademarks
------	--

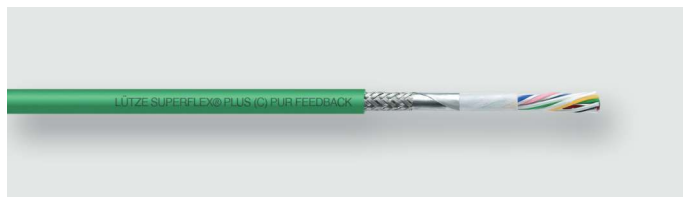
Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for Siemens Drive Cliq and other systems

For highest requirements in drive technology



Identification

Type SU+ (C) PUR FB (2×2×AWG24+1×2×AWG22)

Part No. [104002](#)

Product version

Datasheet version 00

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×2×AWG24+1×2×AWG22)
Number of conductors	6
Cross-section, metric	0.34 mm²
Cross-section AWG	AWG 22

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	6.95 mm
Outer Ø	0.274 inch
Weight	6.5 kg/100 m
Weight	65 Lbs/Mft
Cu-Index	3.2 kg/100 m
Cu-Index	21 Lbs/Mft

Construction Element 1

Element construction	2×2×AWG24
Conductor construction	AWG 24
Conductor	CU-wire bare
Conductor marking	yellow · green · blue · pink
Conductor insulation	PE blend
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	1×2×AWG22
Conductor construction	AWG 22
Conductor	CU-wire tin-plated
Conductor marking	red · black
Conductor insulation	PE blend
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	stranded pairs
Overall wrapping	Non-woven material
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 % metallised fleece optical cover approx. 100 %
Jacket characteristics	Halogen free Flame-retardant UV resistant (normal lighting conditions) hydrolysis-resistant

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Temperature range moving	-20 °C ... +60 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	2×2×AWG24
Insulation resistance at 20 °C	≥2000 MΩ×km
Conductor resistance	≤97.5 Ω/km
Operating capacitance wire-wire	approx.50 pF/m

Technical Data Element 2

Element construction	1×2×AWG22
Conductor resistance	≤56.4 Ω/km

Certifications/Standards

Certifications	cURus AWM II A/B
UL style	AWM 20233
Conformity	CE RoHS
Burning behavior according to	IEC 60332-1-1 to 1-3 UL Cable Flame Test (UL 1581) UL FT1
Oil resistant according to	UL 758
Halogen free according to	EN 60754-1 VDE 0482-754-1
UV-resistant according to	UL 1581

General

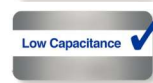
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS and DRIVE-CLiQ are registered trademarks
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1×70 1kV SW
Part No. [111131](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1×70
Number of conductors	1
Cross-section, metric	70 mm²
Cross-section AWG	2/0
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	black similar to RAL 9005
Outer Ø	16.6 mm
Outer Ø	0.654 inch
Surface	adhesion-free, matte
Weight	78.3 kg/100 m
Weight	526 Lbs/Mft
Cu-Index	64.5 kg/100 m
Cu-Index	433 Lbs/Mft
Cable construction	Without shield, black

Construction Element 1

Element construction	1×70
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1×70
----------------------	------

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1×50 1kV SW
Part No. [111130](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1×50
Number of conductors	1
Cross-section, metric	50 mm²
Cross-section AWG	AWG 1
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	black similar to RAL 9005
Outer Ø	15.2 mm
Outer Ø	0.598 inch
Surface	adhesion-free, matte
Weight	57.2 kg/100 m
Weight	384 Lbs/Mft
Cu-Index	47.8 kg/100 m
Cu-Index	321 Lbs/Mft
Cable construction	Without shield, black

Construction Element 1

Element construction	1×50
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1×50
----------------------	------

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1×35 1kV SW
Part No. [111129](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1×35
Number of conductors	1
Cross-section, metric	35 mm²
Cross-section AWG	AWG 2
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	black similar to RAL 9005
Outer Ø	13.4 mm
Outer Ø	0.528 inch
Surface	adhesion-free, matte
Weight	43.1 kg/100 m
Weight	290 Lbs/Mft
Cu-Index	32.6 kg/100 m
Cu-Index	219 Lbs/Mft
Cable construction	Without shield, black

Construction Element 1

Element construction	1×35
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1×35
----------------------	------

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1×16 1kV SW
Part No. [111127](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1×16
Number of conductors	1
Cross-section, metric	16 mm²
Cross-section AWG	AWG 6
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	black similar to RAL 9005
Outer Ø	9.9 mm
Outer Ø	0.386 inch
Surface	adhesion-free, matte
Weight	20.5 kg/100 m
Weight	138 Lbs/Mft
Cu-Index	14.8 kg/100 m
Cu-Index	99 Lbs/Mft
Cable construction	Without shield, black

Construction Element 1

Element construction	1×16
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1×16
----------------------	------

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1×25 1kV SW
Part No. [111128](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1×25
Number of conductors	1
Cross-section, metric	25 mm²
Cross-section AWG	AWG 4
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	black similar to RAL 9005
Outer Ø	11.4 mm
Outer Ø	0.449 inch
Surface	adhesion-free, matte
Weight	30.6 kg/100 m
Weight	206 Lbs/Mft
Cu-Index	23.3 kg/100 m
Cu-Index	157 Lbs/Mft
Cable construction	Without shield, black

Construction Element 1

Element construction	1×25
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1×25
----------------------	------

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1G6 1kV GNGE
Part No. [111241](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1G6
Number of conductors	1
Cross-section, metric	6 mm ²
Cross-section AWG	AWG 10
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	green-yellow
Outer Ø	7.1 mm
Surface	adhesion-free, matte
Weight	9 kg/100 m
Cu-Index	5.6 kg/100 m
Cable construction	Without screen, insulation and jacket greenyellow

Construction Element 1

Element construction	1G6
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	yellow/green
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1G6
Operating capacitance wire-wire	approx.382 pF/m

Certifications/Standards

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1G16 1kV GNGE
Part No. [111197](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1G16
Number of conductors	1
Cross-section, metric	16 mm ²
Cross-section AWG	AWG 6
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	green-yellow
Outer Ø	9.9 mm
Outer Ø	0.386 inch
Surface	adhesion-free, matte
Weight	20.5 kg/100 m
Weight	138 Lbs/Mft
Cu-Index	14.8 kg/100 m
Cu-Index	99 Lbs/Mft
Cable construction	Without screen, insulation and jacket greenyellow

Construction Element 1

Element construction	1G16
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	yellow/green
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1G16
----------------------	------

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1×6 1kV SW
Part No. [111136](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1×6
Number of conductors	1
Cross-section, metric	6 mm ²
Cross-section AWG	AWG 10
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	black similar to RAL 9005
Outer Ø	7.1 mm
Outer Ø	0.279 inch
Surface	adhesion-free, matte
Weight	9 kg/100 m
Weight	61 Lbs/Mft
Cu-Index	5.6 kg/100 m
Cu-Index	38 Lbs/Mft
Cable construction	Without shield, black

Construction Element 1

Element construction	1×6
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1×6
----------------------	-----

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1×120 1kV SW
Part No. [111133](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1×120
Number of conductors	1
Cross-section, metric	120 mm ²
Cross-section AWG	4/0
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	black similar to RAL 9005
Outer Ø	22.6 mm
Outer Ø	0.89 inch
Surface	adhesion-free, matte
Weight	130.2 kg/100 m
Weight	874 Lbs/Mft
Cu-Index	120 kg/100 m
Cu-Index	806 Lbs/Mft
Cable construction	Without shield, black

Construction Element 1

Element construction	1×120
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1×120
----------------------	-------

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1×95 1kV SW
Part No. [111132](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1×95
Number of conductors	1
Cross-section, metric	95 mm²
Cross-section AWG	3/0
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	black similar to RAL 9005
Outer Ø	19.2 mm
Outer Ø	0.756 inch
Surface	adhesion-free, matte
Weight	104.3 kg/100 m
Weight	701 Lbs/Mft
Cu-Index	88.8 kg/100 m
Cu-Index	597 Lbs/Mft
Cable construction	Without shield, black

Construction Element 1

Element construction	1×95
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1×95
----------------------	------

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G1,5+2×(2×0,75))
Part No.	111271.1000
BOSCH REXROTH designation*	REL0106

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For IndraDyn S MS2N* system and similar• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G1.5+2×(2×0.75))
Number of conductors	8
Cross-section, metric	1.5 mm ²
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	12.2 mm
Outer Ø	0.48 inch
Surface	adhesion-free, matte
Weight	24.3 kg/100 m
Weight	163.3 Lbs/Mft
Cu-Index	16.2 kg/100 m
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G1.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	TPE

Construction Element 2

Element construction	2×(2×0.75)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
-------------------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G1.5
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 67 pF/m
Operating capacitance wire-shield	approx. 115 pF/m

Technical Data Element 2

Element construction	$2 \times (2 \times 0.75)$
Insulation resistance at 20 °C	$1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 140 pF/m
Operating capacitance wire-shield	approx. 252 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2

Technical data sheet

PUR servo cables · C-track compatible · shielded

Oil resistant according to	UL 4d100C DIN EN 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN EN 60754-1 DIN 0472 Part 815

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G1,5+2×(2×0,75))
Part No.	111271
INK Description*	INK 0650

Product version

Datasheet version	02
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Indramat* system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G1.5+2×(2×0.75))
Number of conductors	8
Cross-section, metric	1.5 mm ²
Cross-section AWG	AWG 18
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	12.9 mm
Outer Ø	0.508 inch
Surface	adhesion-free, matte
Weight	25.5 kg/100 m
Weight	171 Lbs/Mft
Cu-Index	16.2 kg/100 m
Cu-Index	109 Lbs/Mft
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G1.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	2×(2×0.75)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires Aluminium laminate Foil shield optical cover approx. 85%

mechanical stress

Technical data sheet

PVC servo cables · C-track compatible · shielded

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G1.5
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 67 pF/m
Operating capacitance wire-shield	approx. 115 pF/m

Technical Data Element 2

Element construction	$2 \times (2 \times 0.75)$
Operating capacitance wire-wire	approx. 140 pF/m
Operating capacitance wire-shield	approx. 252 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH

Technical data sheet

PVC servo cables · C-track compatible · shielded

Oil resistant according to	Oil Res I DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G1,0+2×(2×0,75))
Part No.	111270.1000
BOSCH REXROTH designation*	REL0105

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For IndraDyn S MS2N* system and similar• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G1.0+2×(2×0.75))
Number of conductors	8
Cross-section, metric	1 mm ²
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	11.9 mm
Outer Ø	0.472 inch
Surface	adhesion-free, matte
Weight	21.5 kg/100 m
Weight	144.47 Lbs/Mft
Cu-Index	13.8 kg/100 m
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G1
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	brown · black · grey · yellow/green
Conductor insulation	TPE

Construction Element 2

Element construction	2×(2×0.75)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	pink · white · red · blue
Conductor insulation	TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
-------------------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G1
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 63 pF/m
Operating capacitance wire-shield	approx. 115 pF/m

Technical Data Element 2

Element construction	$2 \times (2 \times 0.75)$
Insulation resistance at 20 °C	$1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 140 pF/m
Operating capacitance wire-shield	approx. 252 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2

Technical data sheet

PUR servo cables · C-track compatible · shielded

Oil resistant according to	UL 4d100C DIN EN 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN EN 60754-1 DIN 0472 Part 815

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G1,0+2×(2×0,75))
Part No.	111270
INK Description*	INK 0653

Product version

Datasheet version	02
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Indramat* system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G1.0+2×(2×0.75))
Number of conductors	8
Cross-section, metric	1 mm ²
Cross-section AWG	AWG 18
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	12.5 mm
Outer Ø	0.492 inch
Surface	adhesion-free, matte
Weight	23.2 kg/100 m
Weight	155 Lbs/Mft
Cu-Index	13.8 kg/100 m
Cu-Index	93 Lbs/Mft
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G1
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	2×(2×0.75)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires Aluminium laminate Foil shield optical cover approx. 85%

mechanical stress

Technical data sheet

PVC servo cables · C-track compatible · shielded

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G1
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 63 pF/m
Operating capacitance wire-shield	approx. 115 pF/m

Technical Data Element 2

Element construction	$2 \times (2 \times 0.75)$
Operating capacitance wire-wire	approx. 140 pF/m
Operating capacitance wire-shield	approx. 252 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH

Technical data sheet

PVC servo cables · C-track compatible · shielded

Oil resistant according to	Oil Res I DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1G10 1kV GNGE
Part No. [111243](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1G10
Number of conductors	1
Cross-section, metric	10 mm ²
Cross-section AWG	AWG 8
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	green-yellow
Outer Ø	8.4 mm
Outer Ø	0.331 inch
Surface	adhesion-free, matte
Weight	13.8 kg/100 m
Weight	93 Lbs/Mft
Cu-Index	9.3 kg/100 m
Cu-Index	62 Lbs/Mft
Cable construction	Without screen, insulation and jacket greenyellow

Construction Element 1

Element construction	1G10
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	yellow/green
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1G10
----------------------	------

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G35+2×(2×1,5))
Part No.	111278
INK Description*	INK 0667

Product version

Datasheet version	02
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Indramat* system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G35+2×(2×1.5))
Number of conductors	8
Cross-section, metric	35 mm ²
Cross-section AWG	AWG 2
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	32.5 mm
Outer Ø	1.28 inch
Surface	adhesion-free, matte
Weight	217.6 kg/100 m
Weight	1458 Lbs/Mft
Cu-Index	164 kg/100 m
Cu-Index	1067 Lbs/Mft
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G35
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	2×(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires Aluminium laminate Foil shield optical cover approx. 85%

mechanical stress

Technical data sheet

PVC servo cables · C-track compatible · shielded

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$10 \times D \geq 25 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G35
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 82 pF/m
Operating capacitance wire-shield	approx. 148 pF/m

Technical Data Element 2

Element construction	$2 \times (2 \times 1.5)$
Operating capacitance wire-wire	approx. 157 pF/m
Operating capacitance wire-shield	approx. 283 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH

Technical data sheet

PVC servo cables · C-track compatible · shielded

Oil resistant according to	Oil Res I DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MS2N Motoren. Bosch-Rexroth und REL Artikelbezeichnungen sind eingetragene Warenzeichen der Bosch Gruppe.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G25+2×(2×1,5))
Part No.	111277.1000
BOSCH REXROTH designation*	REL0112

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For IndraDyn S MS2N* system and similar• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G25+2×(2×1.5))
Number of conductors	8
Cross-section, metric	25 mm ²
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	29.8 mm
Outer Ø	1.173 inch
Surface	adhesion-free, matte
Weight	167.9 kg/100 m
Weight	1128.23 Lbs/Mft
Cu-Index	126 kg/100 m
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G25
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	TPE

Construction Element 2

Element construction	2×(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
-------------------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G25
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 82 pF/m
Operating capacitance wire-shield	approx. 148 pF/m

Technical Data Element 2

Element construction	$2 \times (2 \times 1.5)$
Insulation resistance at 20 °C	$1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 157 pF/m
Operating capacitance wire-shield	approx. 283 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2

Technical data sheet

PUR servo cables · C-track compatible · shielded

Oil resistant according to	UL 4d100C DIN EN 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN EN 60754-1 DIN 0472 Part 815

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G16+2×(2×1,5))
Part No.	111276.1000
BOSCH REXROTH designation*	REL0111

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For IndraDyn S MS2N* system and similar• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G16+2×(2×1.5))
Number of conductors	8
Cross-section, metric	16 mm ²
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	25.5 mm
Outer Ø	1.003 inch
Surface	adhesion-free, matte
Weight	116.9 kg/100 m
Weight	785.53 Lbs/Mft
Cu-Index	89.1 kg/100 m
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G16
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	TPE

Construction Element 2

Element construction	2×(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
-------------------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G16
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 81 pF/m
Operating capacitance wire-shield	approx. 146 pF/m

Technical Data Element 2

Element construction	$2 \times (2 \times 1.5)$
Insulation resistance at 20 °C	$1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 157 pF/m
Operating capacitance wire-shield	approx. 283 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2

Technical data sheet

PUR servo cables · C-track compatible · shielded

Oil resistant according to	UL 4d100C DIN EN 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN EN 60754-1 DIN 0472 Part 815

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G25+2×(2×1,5))
Part No.	111277
INK Description*	INK 0607

Product version

Datasheet version	02
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Indramat* system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G25+2×(2×1.5))
Number of conductors	8
Cross-section, metric	25 mm ²
Cross-section AWG	AWG 4
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	29.3 mm
Outer Ø	1.547 inch
Surface	adhesion-free, matte
Weight	171.4 kg/100 m
Weight	1148 Lbs/Mft
Cu-Index	126 kg/100 m
Cu-Index	801 Lbs/Mft
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G25
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	2×(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires Aluminium laminate Foil shield optical cover approx. 85%

mechanical stress

Technical data sheet

PVC servo cables · C-track compatible · shielded

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$10 \times D \geq 25 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G25
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 82 pF/m
Operating capacitance wire-shield	approx. 148 pF/m

Technical Data Element 2

Element construction	$2 \times (2 \times 1.5)$
Operating capacitance wire-wire	approx. 157 pF/m
Operating capacitance wire-shield	approx. 283 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH

Technical data sheet

PVC servo cables · C-track compatible · shielded

Oil resistant according to	Oil Res I DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G16+2×(2×1,5))
Part No.	111276
INK Description*	INK 0606

Product version

Datasheet version	02
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Indramat* system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G16+2×(2×1.5))
Number of conductors	8
Cross-section, metric	16 mm ²
Cross-section AWG	AWG 6
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	26.8 mm
Outer Ø	1.055 inch
Surface	adhesion-free, matte
Weight	106.4 kg/100 m
Weight	713 Lbs/Mft
Cu-Index	89.1 kg/100 m
Cu-Index	553 Lbs/Mft
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G16
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	2×(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires Aluminium laminate Foil shield optical cover approx. 85%

mechanical stress

Technical data sheet

PVC servo cables · C-track compatible · shielded

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G16
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 81 pF/m
Operating capacitance wire-shield	approx. 146 pF/m

Technical Data Element 2

Element construction	$2 \times (2 \times 1.5)$
Operating capacitance wire-wire	approx. 157 pF/m
Operating capacitance wire-shield	approx. 283 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH

Technical data sheet

PVC servo cables · C-track compatible · shielded

Oil resistant according to	Oil Res I DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

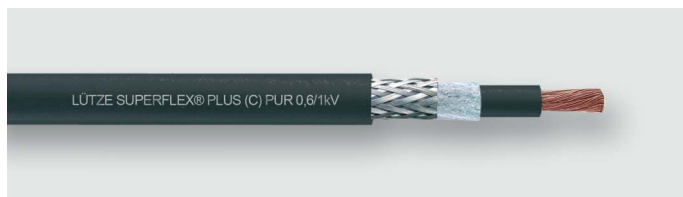
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PUR motor cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS (C) PUR 0.6/1kV

For highest requirements



Identification

Type SU+ (C) PUR (1×10) 1kV SW
Part No. [111289](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR 0.6/1 kV
Number of conductors/cross-section	(1×10)
Number of conductors	1
Cross-section, metric	10 mm ²
Cross-section AWG	AWG 8
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · shielded

Outer Ø	9 mm
Outer Ø	0.354 inch
Surface	adhesion-free, matte
Weight	17.1 kg/100 m
Weight	115 Lbs/Mft
Cu-Index	12.1 kg/100 m
Cu-Index	81 Lbs/Mft
Cable construction	With CU shield, black

Construction Element 1

Element construction	(1×10)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor insulation	Special TPE

Overall construction

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	6×D
Bending cycles	≥10 Mio
Speed	300
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR motor cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 cable flame UL FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

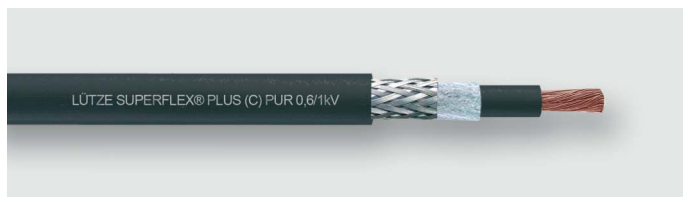
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS (C) PUR 0.6/1kV

For highest requirements



Identification

Type SU+ (C) PUR (1×6) 1kV SW
Part No. [111288](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Compatible with all major drag chain brands• Compliant with NFPA 79, Article 12.9• Through full PUR jacket and TPE conductor insulation optimally suited, extremely harsh operating conditions, aggressive coolants and lubricants |
| Properties | <ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR 0.6/1 kV
Number of conductors/cross-section	(1×6)
Number of conductors	1
Cross-section, metric	6 mm ²
Cross-section AWG	AWG 10
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · shielded

Outer Ø	7.7 mm
Outer Ø	0.303 inch
Surface	adhesion-free, matte
Weight	11.5 kg/100 m
Weight	77 Lbs/Mft
Cu-Index	7.7 kg/100 m
Cu-Index	52 Lbs/Mft
Cable construction	With CU shield, black

Construction Element 1

Element construction	(1×6)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor insulation	Special TPE

Overall construction

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	6×D
Bending cycles	≥10 Mio
Speed	300
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet
PUR motor cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 cable flame UL FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G2,5+2×(2×1,0))
Part No.	111279.1000
BOSCH REXROTH designation*	REL0107

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For IndraDyn S MS2N* system and similar• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G2.5+2×(2×1.0))
Number of conductors	8
Cross-section, metric	2.5 mm ²
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	14.6 mm
Outer Ø	0.583 inch
Surface	adhesion-free, matte
Weight	33.9 kg/100 m
Weight	227.8 Lbs/Mft
Cu-Index	22.6 kg/100 m
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G2.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	TPE

Construction Element 2

Element construction	2×(2×1,0)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
-------------------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G2.5
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 71 pF/m
Operating capacitance wire-shield	approx. 115 pF/m

Technical Data Element 2

Element construction	$2 \times (2 \times 1,0)$
Insulation resistance at 20 °C	$1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 135 pF/m
Operating capacitance wire-shield	approx. 243 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2

Technical data sheet

PUR servo cables · C-track compatible · shielded

Oil resistant according to	UL 4d100C DIN EN 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN EN 60754-1 DIN 0472 Part 815

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1G35 1kV GNGE
Part No. [111285](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1G35
Number of conductors	1
Cross-section, metric	35 mm ²
Cross-section AWG	AWG 2
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	green-yellow
Outer Ø	13.4 mm
Outer Ø	0.528 inch
Surface	adhesion-free, matte
Weight	43.1 kg/100 m
Weight	290 Lbs/Mft
Cu-Index	32.6 kg/100 m
Cu-Index	219 Lbs/Mft
Cable construction	Without screen, insulation and jacket greenyellow

Construction Element 1

Element construction	1G35
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	yellow/green
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1G35
----------------------	------

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G2,5+2×(2×1,0))
Part No.	111279
INK Description*	INK 0602

Product version

Datasheet version	02
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Indramat* system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G2.5+2×(2×1.0))
Number of conductors	8
Cross-section, metric	2.5 mm ²
Cross-section AWG	AWG 14
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	14.2 mm
Outer Ø	0.559 inch
Surface	adhesion-free, matte
Weight	33 kg/100 m
Weight	221 Lbs/Mft
Cu-Index	22.6 kg/100 m
Cu-Index	152 Lbs/Mft
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G2.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	2×(2×1)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires Aluminium laminate Foil shield optical cover approx. 85%

mechanical stress

Technical data sheet

PVC servo cables · C-track compatible · shielded

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G2.5
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 71 pF/m
Operating capacitance wire-shield	approx. 115 pF/m

Technical Data Element 2

Element construction	2×(2×1)
Operating capacitance wire-wire	approx. 135 pF/m
Operating capacitance wire-shield	approx. 243 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH

Technical data sheet

PVC servo cables · C-track compatible · shielded

Oil resistant according to	Oil Res I DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

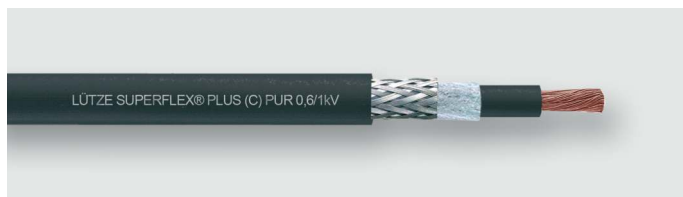
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PUR motor cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS (C) PUR 0.6/1kV

For highest requirements



Identification

Type SU+ (C) PUR (1×50) 1KV SW
Part No. [111293](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR 0.6/1 kV
Number of conductors/cross-section	(1×50)
Number of conductors	1
Cross-section, metric	50 mm ²
Cross-section AWG	AWG 1
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · shielded

Outer Ø	15.8 mm
Outer Ø	0.622 inch
Surface	adhesion-free, matte
Weight	63.1 kg/100 m
Weight	424 Lbs/Mft
Cu-Index	53.1 kg/100 m
Cu-Index	356 Lbs/Mft
Cable construction	With CU shield, black

Construction Element 1

Element construction	1×50)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor insulation	Special TPE

Overall construction

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	6×D
Bending cycles	≥10 Mio
Speed	300
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet
PUR motor cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 cable flame UL FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS (C) PUR 0.6/1kV

For highest requirements



Identification

Type SU+ (C) PUR (1×70) 1KV SW
Part No. [111294](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR 0.6/1 kV
Number of conductors/cross-section	(1×70)
Number of conductors	1
Cross-section, metric	70 mm²
Cross-section AWG	2/0
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · shielded

Outer Ø	17.4 mm
Outer Ø	0.685 inch
Surface	adhesion-free, matte
Weight	85.3 kg/100 m
Weight	573 Lbs/Mft
Cu-Index	70.6 kg/100 m
Cu-Index	473 Lbs/Mft
Cable construction	With CU shield, black

Construction Element 1

Element construction	(1×70)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor insulation	Special TPE

Overall construction

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	6×D
Bending cycles	≥10 Mio
Speed	300
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR motor cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 10587
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 cable flame UL FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

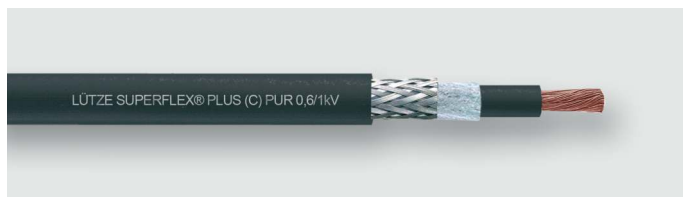
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS (C) PUR 0.6/1kV

For highest requirements



Identification

Type SU+ (C) PUR (1×35) 1KV SW
Part No. [111292](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR 0.6/1 kV
Number of conductors/cross-section	(1×35)
Number of conductors	1
Cross-section, metric	35 mm ²
Cross-section AWG	AWG 2
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · shielded

Outer Ø	14 mm
Outer Ø	0.551 inch
Surface	adhesion-free, matte
Weight	48.1 kg/100 m
Weight	323 Lbs/Mft
Cu-Index	37.3 kg/100 m
Cu-Index	250 Lbs/Mft
Cable construction	With CU shield, black

Construction Element 1

Element construction	(1×35)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor insulation	Special TPE

Overall construction

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	6×D
Bending cycles	≥10 Mio
Speed	300
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet
PUR motor cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 cable flame UL FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

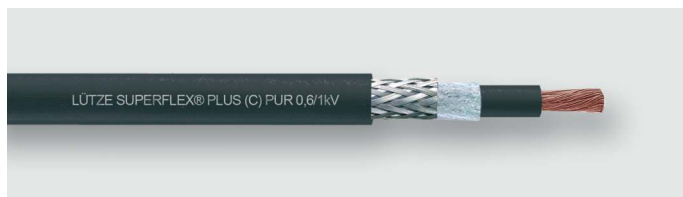
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS (C) PUR 0.6/1kV

For highest requirements



Identification

Type SU+ (C) PUR (1×16) 1KV SW
Part No. [111290](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR 0.6/1 kV
Number of conductors/cross-section	(1×16)
Number of conductors	1
Cross-section, metric	16 mm ²
Cross-section AWG	AWG 6
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · shielded

Outer Ø	10.4 mm
Outer Ø	0.409 inch
Surface	adhesion-free, matte
Weight	24.1 kg/100 m
Weight	162 Lbs/Mft
Cu-Index	18.1 kg/100 m
Cu-Index	121 Lbs/Mft
Cable construction	With CU shield, black

Construction Element 1

Element construction	(1×16)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor insulation	Special TPE

Overall construction

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	6×D
Bending cycles	≥10 Mio
Speed	300
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR motor cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 cable flame UL FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

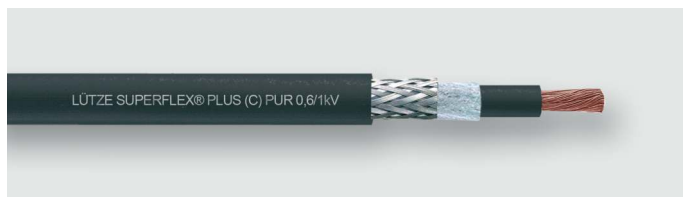
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS (C) PUR 0.6/1kV

For highest requirements



Identification

Type SU+ (C) PUR (1×25) 1KV SW
Part No. [111291](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR 0.6/1 kV
Number of conductors/cross-section	(1×25)
Number of conductors	1
Cross-section, metric	25 mm ²
Cross-section AWG	AWG 4
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · shielded

Outer Ø	12 mm
Outer Ø	0.472 inch
Surface	adhesion-free, matte
Weight	35.3 kg/100 m
Weight	237 Lbs/Mft
Cu-Index	27.3 kg/100 m
Cu-Index	183 Lbs/Mft
Cable construction	With CU shield, black

Construction Element 1

Element construction	(1×25)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor insulation	Special TPE

Overall construction

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	6×D
Bending cycles	≥10 Mio
Speed	300
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet
PUR motor cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 10587
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 cable flame UL FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 4G1,5 1KV SW

Part No. [111370](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	4G1.5
Number of conductors	4
Cross-section, metric	1.5 mm ²
Cross-section AWG	AWG 16
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	8.2 mm
Outer Ø	0.323 inch
Surface	adhesion-free, matte
Weight	10.5 kg/100 m
Weight	81 Lbs/Mft
Cu-Index	5.8 kg/100 m
Cu-Index	39 Lbs/Mft

Construction Element 1

Element construction	4G1.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥5 Mio
Speed	≤4 m/s

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.60 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404 Oil Res II
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 4G2,5 1KV SW

Part No. [111371](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	4G2.5
Number of conductors	4
Cross-section, metric	2.5 mm ²
Cross-section AWG	AWG 14
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	10 mm
Outer Ø	0.394 inch
Surface	adhesion-free, matte
Weight	15.2 kg/100 m
Weight	96 Lbs/Mft
Cu-Index	9.7 kg/100 m
Cu-Index	64 Lbs/Mft

Construction Element 1

Element construction	4G2.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥5 Mio
Speed	≤4 m/s

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.45 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404 Oil Res II
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS PUR 0.6/1kV

For highest requirements



Identification

Type SU+ PUR 1G25 1kV GNGE
Part No. [111337](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Halogen-free, no corrosive gases• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS PUR 0.6/1 kV
Number of conductors/cross-section	1G25
Number of conductors	1
Cross-section, metric	25 mm ²
Cross-section AWG	AWG 6
Jacket material	PUR

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Jacket color	green-yellow
Outer Ø	11.4 mm
Outer Ø	0.449 inch
Surface	adhesion-free, matte
Weight	30.6 kg/100 m
Weight	206 Lbs/Mft
Cu-Index	23.3 kg/100 m
Cu-Index	157 Lbs/Mft
Cable construction	Without screen, insulation and jacket greenyellow

Construction Element 1

Element construction	1G25
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	yellow/green
Conductor insulation	Special TPE

Overall construction

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²

Technical Data Element 1

Element construction	1G25
----------------------	------

Technical data sheet

PUR motor cables · C-track compatible · unshielded

UL style	AWM 10587
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

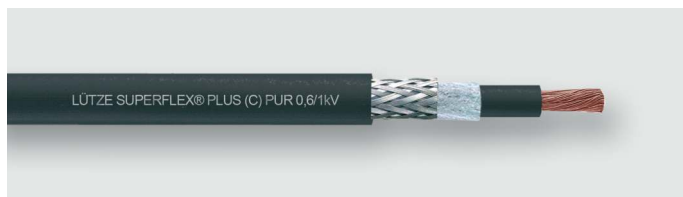
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS (C) PUR 0.6/1kV

For highest requirements



Identification

Type SU+ (C) PUR (1×95) 1KV SW
Part No. [111295](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants |
| Properties | <ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR 0.6/1 kV
Number of conductors/cross-section	(1×95)
Number of conductors	1
Cross-section, metric	95 mm²
Cross-section AWG	3/0
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · shielded

Outer Ø	20.2 mm
Outer Ø	0.795 inch
Surface	adhesion-free, matte
Weight	114.6 kg/100 m
Weight	770 Lbs/Mft
Cu-Index	98 kg/100 m
Cu-Index	657 Lbs/Mft
Cable construction	With CU shield, black

Construction Element 1

Element construction	(1×95)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor insulation	Special TPE

Overall construction

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	6×D
Bending cycles	≥10 Mio
Speed	300
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet
PUR motor cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 10587
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 cable flame UL FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

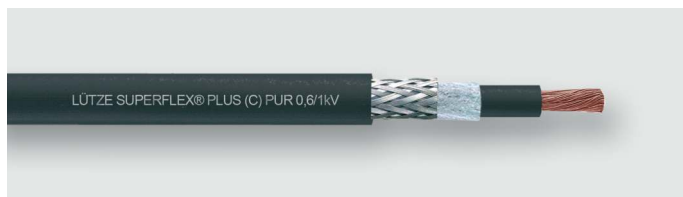
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS (C) PUR 0.6/1kV

For highest requirements



Identification

Type SU+ (C) PUR (1×120) 1KV SW
Part No. [111296](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Performance conductor, specifically for machine and device engineering, transport and conveyor technology• As motor supply or grounding cable• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants |
| Properties | <ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR 0.6/1 kV
Number of conductors/cross-section	(1×120)
Number of conductors	1
Cross-section, metric	120 mm ²
Cross-section AWG	4/0
Jacket material	PUR
Jacket color	black similar to RAL 9005
Outer Ø	23.6 mm

Technical data sheet

PUR motor cables · C-track compatible · shielded

Outer Ø	0.929 inch
Surface	adhesion-free, matte
Weight	143.1 kg/100 m
Weight	962 Lbs/Mft
Cu-Index	132 kg/100 m
Cu-Index	884 Lbs/Mft
Cable construction	With CU shield, black

Construction Element 1

Element construction	(1×120)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor insulation	Special TPE

Overall construction

Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	6×D
Bending cycles	≥10 Mio
Speed	300
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR motor cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 10587
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 cable flame UL FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 4G16 1KV SW

Part No. [111375](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	4G16
Number of conductors	4
Cross-section, metric	16 mm ²
Cross-section AWG	AWG 6
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	20.4 mm
Outer Ø	0.803 inch
Surface	adhesion-free, matte
Weight	78.8 kg/100 m
Weight	663 Lbs/Mft
Cu-Index	62.2 kg/100 m
Cu-Index	411 Lbs/Mft

Construction Element 1

Element construction	4G16
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥5 Mio
Speed	≤2 m/s

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.72 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404 Oil Res II
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 4G25 1KV SW

Part No. [111376](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	4G25
Number of conductors	4
Cross-section, metric	25 mm ²
Cross-section AWG	AWG 4
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	24.2 mm
Outer Ø	0.953 inch
Surface	adhesion-free, matte
Weight	120.8 kg/100 m
Weight	804 Lbs/Mft
Cu-Index	96 kg/100 m
Cu-Index	643 Lbs/Mft

Construction Element 1

Element construction	4G25
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	= 5 Mio
Speed	≤2 m/s

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.74 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404 Oil Res II
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 4G6 1KV SW

Part No. [111373](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	4G6
Number of conductors	4
Cross-section, metric	6 mm ²
Cross-section AWG	AWG 10
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	13.6 mm
Outer Ø	0.535 inch
Surface	adhesion-free, matte
Weight	33.8 kg/100 m
Weight	220 Lbs/Mft
Cu-Index	23.3 kg/100 m
Cu-Index	155 Lbs/Mft

Construction Element 1

Element construction	4G6
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥5 Mio
Speed	≤2 m/s

Technical data sheet
PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.74 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404 Oil Res II
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 4G10 1KV SW

Part No. [111374](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	4G10
Number of conductors	4
Cross-section, metric	10 mm ²
Cross-section AWG	AWG 8
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	16.8 mm
Outer Ø	0.661 inch
Surface	adhesion-free, matte
Weight	55.5 kg/100 m
Weight	352 Lbs/Mft
Cu-Index	39.1 kg/100 m
Cu-Index	257 Lbs/Mft

Construction Element 1

Element construction	4G10
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥5 Mio
Speed	≤2 m/s

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.72 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404 Oil Res II
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 4G4 1KV SW

Part No. [111372](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	4G4
Number of conductors	4
Cross-section, metric	4 mm ²
Cross-section AWG	AWG 12
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	11.6 mm
Outer Ø	0.457 inch
Surface	adhesion-free, matte
Weight	22.2 kg/100 m
Weight	156 Lbs/Mft
Cu-Index	15.5 kg/100 m
Cu-Index	103 Lbs/Mft

Construction Element 1

Element construction	4G4
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	= 5 Mio
Speed	≤4 m/s

Technical data sheet
PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.69 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404 Oil Res II
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK Encoder cables for Siemens and other systems For highest requirements in drive technology



Identification

Type	SU+(C) PUR FB (8×2×0,18) 30V
Part No.	111412
SIEMENS designation*	1BD11

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(8×2×0.18)
Number of conductors	16
Cross-section, metric	0.18 mm²

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	8.2 mm
Outer Ø	0.323 inch
Surface	adhesion-free, matte
Weight	13.1 kg/100 m
Weight	88 Lbs/Mft
Cu-Index	7.3 kg/100 m
Cu-Index	49 Lbs/Mft

Construction Element 1

Element construction	(8×2×0.18)
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white/green · white/yellow · white/red · white/orange · white/black · white/ brown · white · grey · violet · blue · green · yellow · red · orange · brown · black
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	layered construction
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	30 V
Test voltage type	AC 500 V
Temperature range moving	-25 °C ... +80 °C

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Torsion	± 30°/m
---------	---------

Technical Data Element 1

Element construction	(8×2×0.18)
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.53 pF/m
Operating capacitance wire-shield	approx.96 pF/m

Certifications/Standards

Certifications	cURus AWM II A/B
UL style	AWM 20236
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 HD 22.10
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G4+2×(2×1,0))
Part No.	111388.1000
BOSCH REXROTH designation*	REL0108

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For IndraDyn S MS2N* system and similar• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G4+(2×1.0)+(2×1.5))
Number of conductors	8
Cross-section, metric	4 mm ²
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	17 mm
Outer Ø	0.669 inch
Surface	adhesion-free, matte
Weight	42 kg/100 m
Weight	282.22 Lbs/Mft
Cu-Index	32.9 kg/100 m
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G4
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	TPE

Construction Element 2

Element construction	2×(2×1,0)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
-------------------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G4
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 77 pF/m
Operating capacitance wire-shield	approx. 139 pF/m

Technical Data Element 2

Element construction	$2 \times (2 \times 1,0)$
Insulation resistance at 20 °C	$1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 135 pF/m
Operating capacitance wire-shield	approx. 243 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2

Technical data sheet

PUR servo cables · C-track compatible · shielded

Oil resistant according to	UL 4d100C DIN EN 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN EN 60754-1 DIN 0472 Part 815

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 4G50 1KV SW

Part No. [111378](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	4G50
Number of conductors	4
Cross-section, metric	50 mm²
Cross-section AWG	AWG 1
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	33
Outer Ø	1.299
Surface	adhesion-free, matte
Weight	265.1 kg/100 m
Weight	1642 Lbs/Mft
Cu-Index	200.1 kg/100 m
Cu-Index	1286 Lbs/Mft

Construction Element 1

Element construction	4G50
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥5 Mio
Speed	≤2 m/s

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.70 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G4+(2×1,0)+(2×1,5))
Part No.	111388
INK Description*	INK 0603

Product version

Datasheet version	02
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Indramat* system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G4+(2×1.0)+(2×1.5))
Number of conductors	8
Cross-section, metric	4 mm ²
Cross-section AWG	AWG 12
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	16.3 mm
Outer Ø	0.642 inch
Surface	adhesion-free, matte
Weight	38 kg/100 m
Weight	255 Lbs/Mft
Cu-Index	32.9 kg/100 m
Cu-Index	173 Lbs/Mft
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G4
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	(2×1)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires Aluminium laminate Foil shield optical cover approx. 85%

Technical data sheet

PVC servo cables · C-track compatible · shielded

Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires Aluminium laminate Foil shield optical cover approx. 85%

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical data sheet

PVC servo cables · C-track compatible · shielded

Operating capacitance wire-shield	approx.139 pF/m
-----------------------------------	-----------------

Technical Data Element 2

Element construction	(2×1)
Operating capacitance wire-wire	approx.135 pF/m
Operating capacitance wire-shield	approx.243 pF/m

Technical Data Element 3

Element construction	(2×1.5)
Operating capacitance wire-wire	approx.157 pF/m
Operating capacitance wire-shield	approx.283 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 UL 1581 part 1080 VW-1 UL FT1 UL VW-1
Oil resistant according to	Oil Res I DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 4G35 1KV SW

Part No. [111377](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	4G35
Number of conductors	4
Cross-section, metric	35 mm ²
Cross-section AWG	AWG 2
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	27.8
Outer Ø	1.094
Surface	adhesion-free, matte
Weight	172.5 kg/100 m
Weight	1240 Lbs/Mft
Cu-Index	136.5 kg/100 m
Cu-Index	901 Lbs/Mft

Construction Element 1

Element construction	4G35
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥5 Mio
Speed	≤2 m/s

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.74 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404 Oil Res II
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G2,5+(2×1,5)) 1kV
Part No.	111421
SIEMENS designation*	1BA21

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G2.5+(2×1.5))
Number of conductors	6

Technical data sheet

PUR servo cables

Cross-section, metric	2.5 mm ²
Cross-section AWG	AWG 14
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	12.9 mm
Outer Ø	0.508 inch
Surface	adhesion-free, matte
Weight	23.5 kg/100 m
Weight	158 Lbs/Mft
Cu-Index	19.3 kg/100 m
Cu-Index	130 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G2.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	black • with white number print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • white
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant

Technical data sheet

PUR servo cables

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G2.5
Insulation resistance at 20 °C	$\geq 500 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 105 pF/m
Operating capacitance wire-shield	approx. 120 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 185 pF/m
Operating capacitance wire-shield	approx. 210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

Technical data sheet
PUR servo cables

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G1,5+(2×1,5)) 90°C
Part No.	111420.1000
SIEMENS designation*	1BA11

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G1,5+(2×1,5))
Number of conductors	6
Cross-section, metric	1.5 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	11.6 mm
Surface	adhesion-free, matte
Weight	21.93 kg/100 m
Weight	146.92 Lbs/Mft
Cu-Index	14.9 kg/100 m
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	(4G1,5)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1,5)
Conductor	CU-wire bare
Conductor marking	black • white
Conductor insulation	PP
Stranding	conductors stranded in pairs
Element shielding	Braid shield tinned copper wires

Overall construction

Overall stranding	elements stranded together conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U ₀ /U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Torsion	± 30°/m
---------	---------

Technical Data Element 1

Element construction	(4G1,5)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	80 pF/m
Operating capacitance wire-shield	140 pF/m

Technical Data Element 2

Element construction	(2×1,5)
Operating capacitance wire-wire	140 pF/m
Operating capacitance wire-shield	210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

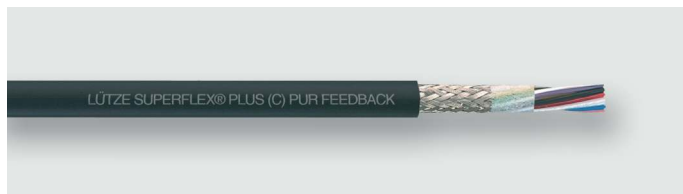
General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR feedback cables · C-track compatible

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for Heidenhain and other systems
For highest requirements in drive technology



Identification

Type SU+ (C) PUR FB (4×0,5+4×2×0,14+(4×0,14))
Part No. [111418](#)

Product version

Datasheet version 02

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(4×0.5+4×2×0.14+(4×0.14))
Number of conductors	16
Cross-section, metric	0.5 mm ²
Jacket material	PUR

Technical data sheet

PUR feedback cables · C-track compatible

Jacket color	black similar to RAL 9005
Outer Ø	8.6 mm
Surface	adhesion-free, matte
Weight	12.3 kg/100 m
Cu-Index	6 kg/100 m

Construction Element 1

Element construction	4×0.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white • blue • brown/green • white/green
Conductor insulation	Special TPE
Stranding	layer pitch optimised conductors twisted without mechanical stress

Construction Element 2

Element construction	4×2×0.14
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	yellow • violet • grey • pink • brown • green • red • black
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress

Construction Element 3

Element construction	(4×0.14)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	green/black • blue/black • yellow/black • red/black
Conductor insulation	Special TPE
Stranding	layer pitch optimised conductors twisted without mechanical stress
Element shielding	Spiral shield optical cover approx. 95 % tinned copper wires

mechanical stress

Technical data sheet

PUR feedback cables · C-track compatible

Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4×0.5
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.61 pF/m
Operating capacitance wire-shield	approx.110 pF/m

Technical Data Element 2

Element construction	4×2×0.14
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	104
Operating capacitance wire-shield	188 pF/m

Technical Data Element 3

Element construction	(4×0.14)
Insulation resistance 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	147 pF/m
Operating capacitance wire-shield	270 pF/m

Technical data sheet

PUR feedback cables · C-track compatible

Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404 UL 1581
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G1,5+(2×1,5)) 1kV
Part No.	111420
SIEMENS designation*	1BA11

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G1.5+(2×1.5))
Number of conductors	6

Technical data sheet

PUR servo cables · shielded

Cross-section, metric	1.5 mm ²
Cross-section AWG	AWG 16
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	11.6 mm
Outer Ø	0.456 inch
Surface	adhesion-free, matte
Weight	21 kg/100 m
Weight	141 Lbs/Mft
Cu-Index	14.9 kg/100 m
Cu-Index	100 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G1.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	black • with white number print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • white
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant

Technical data sheet

PUR servo cables · shielded

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G1.5
Insulation resistance at 20 °C	$\geq 500 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 80 pF/m
Operating capacitance wire-shield	approx. 120 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 140 pF/m
Operating capacitance wire-shield	approx. 210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

Technical data sheet
PUR servo cables · shielded

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR feedback cables · C-track compatible

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for various systems

For highest requirements in drive technology



Identification

Type	SU+ (C) PUR FB 4×(2×AWG22) 300V
Part No.	111416
System	NUM

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	4×(2×AWG22)
Number of conductors	8
Jacket material	PUR

Technical data sheet

PUR feedback cables · C-track compatible

Jacket color	green similar to RAL 6018
Outer Ø	10.3 mm
Surface	adhesion-free, matte
Weight	14.9 kg/100 m
Cu-Index	6.6 kg/100 m

Construction Element 1

Element construction	4×(2×AWG22)
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 IEC 60228, Class 6
Conductor marking	black • white • black • green • black • blue • black • red
Conductor insulation	PE
Stranding	strands braided together
Element shielding	Braid shield Tinned copper wires optical cover approx. 90%

Overall construction

Overall stranding	stranded pairs layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	300 / 500 V
Rated voltage	
Rated voltage UL	300 V
Test voltage type	AC 2000 V
Temperature range moving	-40 °C ... +80 °C

Technical data sheet

PUR feedback cables · C-track compatible

Torsion	± 30°/m
---------	---------

Technical Data Element 1

Element construction	4×(2×AWG22)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.89 pF/m
Operating capacitance wire-shield	approx.160 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 20233
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 VDE 0482-332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 50525-2-21 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G6+(2×1,5)) 90°C
Part No.	111423.1000
SIEMENS designation*	1BA41

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G6+(2×1,5))
Number of conductors	6
Cross-section, metric	6 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	16.2 mm
Surface	adhesion-free, matte
Weight	46.99 kg/100 m
Weight	314.84 Lbs/Mft
Cu-Index	33.9 kg/100 m
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	(4G6)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1,5)
Conductor	CU-wire bare
Conductor marking	black • white
Conductor insulation	PP
Stranding	conductors stranded in pairs
Element shielding	Braid shield tinned copper wires

Overall construction

Overall stranding	elements stranded together conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U ₀ /U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Torsion	± 30°/m
---------	---------

Technical Data Element 1

Element construction	(4G6)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	120 pF/m
Operating capacitance wire-shield	210 pF/m

Technical Data Element 2

Element construction	(2×1,5)
Operating capacitance wire-wire	140 pF/m
Operating capacitance wire-shield	210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G6+(2×1,5)) 1kV
Part No.	111423
SIEMENS designation*	1BA41

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G6+(2×1.5))
Number of conductors	6

Technical data sheet

PUR servo cables

Cross-section, metric	6 mm ²
Cross-section AWG	AWG 10
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	16.1 mm
Outer Ø	0.634 inch
Surface	adhesion-free, matte
Weight	43 kg/100 m
Weight	288 Lbs/Mft
Cu-Index	33.9 kg/100 m
Cu-Index	228 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G6
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	black • with white number print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • white
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant

Technical data sheet

PUR servo cables

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G6
Insulation resistance at 20 °C	$\geq 500 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 120 pF/m
Operating capacitance wire-shield	approx. 120 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 210 pF/m
Operating capacitance wire-shield	approx. 210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

Technical data sheet
PUR servo cables

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G2,5+(2×1,5)) 90°C
Part No.	111421.1000
SIEMENS designation*	1BA21

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G2,5+(2×1,5))
Number of conductors	6
Cross-section, metric	2.5 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	13 mm
Surface	adhesion-free, matte
Weight	27.41 kg/100 m
Weight	183.65 Lbs/Mft
Cu-Index	19.3 kg/100 m
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	(4G2,5)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, Class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	Conductors twisted without mechanical stress Layer pitch optimised

Construction Element 2

Element construction	(2×1,5)
Conductor	CU-wire bare
Conductor marking	black • white
Conductor insulation	PP
Stranding	Conductors stranded in pairs
Element shielding	Braid shield tinned copper wires

Overall construction

Overall stranding	Elements stranded together Conductors twisted without mechanical stress Layer pitch optimised
Overall shield	Braid shield Optical cover approx. 85 %

Technical data

Rated voltage U ₀ /U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Torsion	± 30°/m
---------	---------

Technical Data Element 1

Element construction	(4G2,5)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	105 pF/m
Operating capacitance wire-shield	185 pF/m

Technical Data Element 2

Element construction	(2×1,5)
Operating capacitance wire-wire	140 pF/m
Operating capacitance wire-shield	210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G4+(2×1,5)) 90°C
Part No.	111422.1000
SIEMENS designation*	1BA31

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G4+(2×1,5))
Number of conductors	6
Cross-section, metric	4 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	14.7 mm
Surface	adhesion-free, matte
Weight	36.77 kg/100 m
Weight	246.39 Lbs/Mft
Cu-Index	25.5 kg/100 m
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	(4G4)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1,5)
Conductor	CU-wire bare
Conductor marking	black • white
Conductor insulation	PP
Stranding	conductors stranded in pairs
Element shielding	Braid shield tinned copper wires

Overall construction

Overall stranding	elements stranded together conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U ₀ /U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Torsion	± 30°/m
---------	---------

Technical Data Element 1

Element construction	(4G4)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	115 pF/m
Operating capacitance wire-shield	200 pF/m

Technical Data Element 2

Element construction	(2×1,5)
Operating capacitance wire-wire	140 pF/m
Operating capacitance wire-shield	210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G4+(2×1,5)) 1kV
Part No.	111422
SIEMENS designation*	1BA31

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G4+(2×1.5))
Number of conductors	6

Technical data sheet

PUR servo cables

Cross-section, metric	4 mm ²
Cross-section AWG	AWG 12
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	14.5 mm
Outer Ø	0.571 inch
Surface	adhesion-free, matte
Weight	32 kg/100 m
Weight	214 Lbs/Mft
Cu-Index	25.5 kg/100 m
Cu-Index	171 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G4
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	black • with white number print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • white
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant

Technical data sheet

PUR servo cables

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G4
Insulation resistance at 20 °C	$\geq 500 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 115 pF/m
Operating capacitance wire-shield	approx. 120 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 200 pF/m
Operating capacitance wire-shield	approx. 210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

Technical data sheet
PUR servo cables

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G16+(2×1,5)) 90°C
Part No.	111425.1000
SIEMENS designation*	1BA61

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G16+(2×1,5))
Number of conductors	6
Cross-section, metric	16 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	23.2 mm
Surface	adhesion-free, matte
Weight	98.56 kg/100 m
Weight	660.37 Lbs/Mft
Cu-Index	77.3 kg/100 m
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	(4G16)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1,5)
Conductor	CU-wire bare
Conductor marking	black • white
Conductor insulation	PP
Stranding	conductors stranded in pairs
Element shielding	Braid shield tinned copper wires

Overall construction

Overall stranding	elements stranded together conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U ₀ /U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Torsion	± 30°/m
---------	---------

Technical Data Element 1

Element construction	(4G16)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	140 pF/m
Operating capacitance wire-shield	245 pF/m

Technical Data Element 2

Element construction	(2×1,5)
Operating capacitance wire-wire	140 pF/m
Operating capacitance wire-shield	210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G25+(2×1,5)) 1kV
Part No.	111426
SIEMENS designation*	1BA25

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G25+(2×1.5))
Number of conductors	6

Technical data sheet

PUR servo cables

Cross-section, metric	25 mm ²
Cross-section AWG	AWG 4
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	28.5 mm
Outer Ø	1.122 inch
Surface	adhesion-free, matte
Weight	136.5 kg/100 m
Weight	915 Lbs/Mft
Cu-Index	113 kg/100 m
Cu-Index	761 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G25
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	black • with white number print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • white
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant

Technical data sheet

PUR servo cables

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$10 \times D \geq 25 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G25
Insulation resistance at 20 °C	$\geq 500 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 145 pF/m
Operating capacitance wire-shield	approx. 120 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 255 pF/m
Operating capacitance wire-shield	approx. 210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

Technical data sheet
PUR servo cables

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G10+(2×1,5)) 90°C
Part No.	111424.1000
SIEMENS designation*	1BA51

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G10+(2×1,5))
Number of conductors	6
Cross-section, metric	10 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	19.7 mm
Surface	adhesion-free, matte
Weight	69.21 kg/100 m
Weight	463.69 Lbs/Mft
Cu-Index	52.6 kg/100 m
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	(4G10)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1,5)
Conductor	CU-wire bare
Conductor marking	black • white
Conductor insulation	PP
Stranding	conductors stranded in pairs
Element shielding	Braid shield tinned copper wires

Overall construction

Overall stranding	elements stranded together conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U ₀ /U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Torsion	± 30°/m
---------	---------

Technical Data Element 1

Element construction	(4G10)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	140 pF/m
Operating capacitance wire-shield	245 pF/m

Technical Data Element 2

Element construction	(2×1,5)
Operating capacitance wire-wire	140 pF/m
Operating capacitance wire-shield	210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G16+(2×1,5)) 1kV
Part No.	111425
SIEMENS designation*	1BA61

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G16+(2×1.5))
Number of conductors	6

Technical data sheet

PUR servo cables

Cross-section, metric	16 mm ²
Cross-section AWG	AWG 6
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	23.6 mm
Outer Ø	0.929 inch
Surface	adhesion-free, matte
Weight	95.6 kg/100 m
Weight	641 Lbs/Mft
Cu-Index	77.3 kg/100 m
Cu-Index	519 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G16
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	black • with white number print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • white
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant

Technical data sheet

PUR servo cables

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G16
Insulation resistance at 20 °C	$\geq 500 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 140 pF/m
Operating capacitance wire-shield	approx. 120 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 245 pF/m
Operating capacitance wire-shield	approx. 210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

Technical data sheet
PUR servo cables

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G10+(2×1,5)) 1kV
Part No.	111424
SIEMENS designation*	1BA51

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G10+(2×1.5))
Number of conductors	6

Technical data sheet

PUR servo cables

Cross-section, metric	10 mm ²
Cross-section AWG	AWG 8
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	19.5 mm
Outer Ø	0.768 inch
Surface	adhesion-free, matte
Weight	68 kg/100 m
Weight	456 Lbs/Mft
Cu-Index	52.6 kg/100 m
Cu-Index	353 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G10
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	black • with white number print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • white
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant

Technical data sheet

PUR servo cables

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G10
Insulation resistance at 20 °C	$\geq 500 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 140 pF/m
Operating capacitance wire-shield	approx. 120 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 245 pF/m
Operating capacitance wire-shield	approx. 210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

Technical data sheet
PUR servo cables

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G50+(2×1,5)) 90°C
Part No.	111428.1000
SIEMENS designation*	1BA50

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G50+(2×1,5))
Number of conductors	6
Cross-section, metric	50 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	34.5 mm
Surface	adhesion-free, matte
Weight	252.64 kg/100 m
Weight	1692.65 Lbs/Mft
Cu-Index	224 kg/100 m
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	(4G50)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1,5)
Conductor	CU-wire bare
Conductor marking	black • white
Conductor insulation	PP
Stranding	conductors stranded in pairs
Element shielding	Braid shield tinned copper wires

Overall construction

Overall stranding	elements stranded together conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U ₀ /U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Torsion	± 30°/m
---------	---------

Technical Data Element 1

Element construction	(4G50)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	152 pF/m
Operating capacitance wire-shield	260 pF/m

Technical Data Element 2

Element construction	(2×1,5)
Operating capacitance wire-wire	140 pF/m
Operating capacitance wire-shield	210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G50+(2×1,5)) 1kV
Part No.	111428
SIEMENS designation*	1BA50

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G50+(2×1.5))
Number of conductors	6

Technical data sheet

PUR servo cables · C-track compatible · shielded

Cross-section, metric	50 mm ²
Cross-section AWG	AWG 1
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	34.5 mm
Outer Ø	1.358 inch
Surface	adhesion-free, matte
Weight	373.7 kg/100 m
Weight	2504 Lbs/Mft
Cu-Index	224 kg/100 m
Cu-Index	1505 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G50
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	black • with white number print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • white
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant

Technical data sheet

PUR servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$10 \times D \geq 25 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G50
Insulation resistance at 20 °C	$\geq 500 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 152 pF/m
Operating capacitance wire-shield	approx. 120 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 260 pF/m
Operating capacitance wire-shield	approx. 210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

Technical data sheet
PUR servo cables · C-track compatible · shielded

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G35+(2×1,5)) 90°C
Part No.	111427.1000
SIEMENS designation*	1BA35

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G35+(2×1,5))
Number of conductors	6
Cross-section, metric	35 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	31 mm
Surface	adhesion-free, matte
Weight	190.32 kg/100 m
Weight	1275.17 Lbs/Mft
Cu-Index	159 kg/100 m
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	(4G35)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1,5)
Conductor	CU-wire bare
Conductor marking	black • white
Conductor insulation	PP
Stranding	conductors stranded in pairs
Element shielding	Braid shield tinned copper wires

Overall construction

Overall stranding	elements stranded together conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U ₀ /U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Torsion	± 30°/m
---------	---------

Technical Data Element 1

Element construction	(4G35)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	145 pF/m
Operating capacitance wire-shield	255 pF/m

Technical Data Element 2

Element construction	(2×1,5)
Operating capacitance wire-wire	140 pF/m
Operating capacitance wire-shield	210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G35+(2×1,5)) 1kV
Part No.	111427
SIEMENS designation*	1BA35

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G35+(2×1.5))
Number of conductors	6

Technical data sheet

PUR servo cables · C-track compatible · shielded

Cross-section, metric	35 mm ²
Cross-section AWG	AWG 2
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	31 mm
Outer Ø	1.22 inch
Surface	adhesion-free, matte
Weight	274.6 kg/100 m
Weight	1840 Lbs/Mft
Cu-Index	159 kg/100 m
Cu-Index	1068 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G35
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	black • with white number print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • white
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant

Technical data sheet

PUR servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$10 \times D \geq 25 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G35
Insulation resistance at 20 °C	$\geq 500 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 145 pF/m
Operating capacitance wire-shield	approx. 120 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 255 pF/m
Operating capacitance wire-shield	approx. 210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

Technical data sheet
PUR servo cables · C-track compatible · shielded

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G25+(2×1,5)) 90°C
Part No.	111426.1000
SIEMENS designation*	1BA25

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G25+(2×1,5))
Number of conductors	6
Cross-section, metric	25 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	27.4 mm
Surface	adhesion-free, matte
Weight	147.17 kg/100 m
Weight	986.07 Lbs/Mft
Cu-Index	113 kg/100 m
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	(4G25)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1,5)
Conductor	CU-wire bare
Conductor marking	black • white
Conductor insulation	PP
Stranding	conductors stranded in pairs
Element shielding	Braid shield tinned copper wires

Overall construction

Overall stranding	elements stranded together conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U ₀ /U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Torsion	± 30°/m
---------	---------

Technical Data Element 1

Element construction	(4G25)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	145 pF/m
Operating capacitance wire-shield	255 pF/m

Technical Data Element 2

Element construction	(2×1,5)
Operating capacitance wire-wire	140 pF/m
Operating capacitance wire-shield	210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Lenze and other systems

For highest requirements



Identification

Type SU+ M (C) PUR SE (4G1,0+(2×0,5)) 1kV

Part No. [111439](#)

Product version

Datasheet version 00

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G1.0 + (2×0.5))
Number of conductors	6
Cross-section, metric	1 mm²

Technical data sheet

PVC servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	9.6 mm
Surface	adhesion-free, matte
Weight	13.4 kg/100 m
Cu-Index	8 kg/100 m

Construction Element 1

Element construction	4G1
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×0.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	brown · white
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free)

Technical data sheet

PVC servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G1
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.66 pF/m
Operating capacitance wire-shield	approx.119 pF/m

Technical Data Element 2

Element construction	(2×0.5)
Operating capacitance wire-wire	approx.81 pF/m
Operating capacitance wire-shield	approx.146 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

in conformity with the EU Low Voltage Directive 2014/

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Encoder cables for Siemens and other systems

For highest requirements in drive technology



Identification

Type	SU+(C) PUR FB (2×2×0,18) 30V
Part No.	111452
SIEMENS designation*	1BD71

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×2×0.18)
Number of conductors	4
Cross-section, metric	0.18 mm²

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	5.1 mm
Outer Ø	0.201 inch
Surface	adhesion-free, matte
Weight	4.2 kg/100 m
Weight	28 Lbs/Mft
Cu-Index	2.2 kg/100 m
Cu-Index	15 Lbs/Mft

Construction Element 1

Element construction	(2×2×0.18)
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	brown · red · black · orange
Conductor insulation	Polyolefin

Overall construction

Overall stranding	star quad stranding
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	30 V
Test voltage type	AC 500 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Technical Data Element 1

Element construction	(2×2×0.18)
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.53 pF/m
Operating capacitance wire-shield	approx.96 pF/m

Certifications/Standards

Certifications	cURus AWM II A/B
UL style	AWM 20236
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 HD 22.10
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PUR feedback cables · C-track compatible

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for various systems

For highest requirements in drive technology



Identification

Type	SU+ (C) PUR FB (3×2×AWG24/19)
Part No.	111437
System	B&R

Product version

Datasheet version	02
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(3×2×AWG24/19)
Number of conductors	6
Jacket material	PUR

Technical data sheet

PUR feedback cables · C-track compatible

Jacket color	green similar to RAL 6018
Outer Ø	6.6 mm
Surface	adhesion-free, matte
Weight	6.9 kg/100 m
Cu-Index	2.7 kg/100 m

Construction Element 1

Element construction	(3×2×AWG24/19)
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white • brown • green • yellow • grey • pink
Conductor insulation	Special TPE

Overall construction

Overall stranding	stranded pairs conductors twisted without mechanical stress layer pitch optimised
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical data sheet
PUR feedback cables · C-track compatible

Operating capacitance wire-shield approx.105 pF/m

Technical Data Element 2

Insulation resistance at 20 °C ≥200 MΩ×km

Certifications/Standards

Certifications	cURus
UL style	AWM 20233
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 5G10 1KV SW

Part No. [111429](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	5G10
Number of conductors	5
Cross-section, metric	10 mm ²
Cross-section AWG	AWG 8
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	18.8 mm
Outer Ø	0.74 inch
Surface	adhesion-free, matte
Weight	69.5 kg/100 m
Weight	504 Lbs/Mft
Cu-Index	48.8 kg/100 m
Cu-Index	329 Lbs/Mft

Construction Element 1

Element construction	5G10
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥5 Mio
Speed	≤2 m/s

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.72 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 5G6 1kV SW

Part No. [111430](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	5G6
Number of conductors	5
Cross-section, metric	6 mm ²
Cross-section AWG	AWG 10
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	15
Outer Ø	0.591
Surface	adhesion-free, matte
Weight	37.8 kg/100 m
Weight	269 Lbs/Mft
Cu-Index	29.2 kg/100 m
Cu-Index	194 Lbs/Mft

Construction Element 1

Element construction	5G6
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥5 Mio
Speed	≤2 m/s

Technical data sheet
PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.74 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK Encoder cables for Siemens and other systems For highest requirements in drive technology



Identification

Type	SU+(C) PUR FB (2×0,5+3×(2×0,14)+4×0,14) 30V
Part No.	111458
SIEMENS designation*	1BD41

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×0.5+3×(2×0.14)+4×0.14)
Number of conductors	12
Cross-section, metric	0.5 mm ²

Technical data sheet
PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	8.6 mm
Outer Ø	0.339 inch
Surface	adhesion-free, matte
Weight	12.2 kg/100 m
Weight	82 Lbs/Mft
Cu-Index	6.1 kg/100 m
Cu-Index	41 Lbs/Mft

Construction Element 1

Element construction	2×0.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	brown/blue · brown/red
Conductor insulation	Polyolefin
Stranding	strands braided together conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	3×(2×0.14)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	green · yellow · black · brown · red · orange
Conductor insulation	TPE-E
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised
Element shielding	Spiral shield optical cover approx. 90% tinned copper wires

Construction Element 3

Element construction	4×0.14
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 DIN EN 13602
	VDE 0295 · white/black
	mechanical stress

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Inner jacket	Special TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	30 V
Test voltage type	AC 500 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	2×0.5
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.68 pF/m
Operating capacitance wire-shield	approx.122 pF/m

Technical Data Element 2

Element construction	3×(2×0.14)
Operating capacitance wire-wire	approx.147 pF/m
Operating capacitance wire-shield	approx.270 pF/m

Technical Data Element 3

Element construction	4×0.14
----------------------	--------

Technical data sheet
PUR feedback cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus AWM II A/B
UL style	AWM 20236
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 HD 22.10
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Encoder cables for Siemens and other systems

For highest requirements in drive technology



Identification

Type	SU+(C) PUR FB (4×0,5+4×2×0,38) 30V
Part No.	111456
SIEMENS designation*	1BD21

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering• Compatible with all major drag chain brands• Compliant with NFPA 79, Article 12.9
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• UV-resistant• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Talc free and silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(4×0.5+4×2×0.38)

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Number of conductors	12
Cross-section, metric	0.5 mm ²
Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	9.4 mm
Outer Ø	0.37 inch
Surface	adhesion-free, matte
Weight	13.2 kg/100 m
Weight	89 Lbs/Mft
Cu-Index	8.6 kg/100 m
Cu-Index	58 Lbs/Mft

Construction Element 1

Element construction	4×0.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white/blue · white/black · white/red · white/yellow
Conductor insulation	Polyolefin
Stranding	conductors layered construction conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	4×2×0.38
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · brown · violet · blue · yellow · green · red · orange
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage	30 V
Test voltage type	AC 500 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4×0.5
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.65 pF/m
Operating capacitance wire-shield	approx.117 pF/m

Technical Data Element 2

Element construction	4×2×0.38
Operating capacitance wire-wire	approx.56 pF/m
Operating capacitance wire-shield	approx.101 pF/m

Certifications/Standards

Certifications	cURus AWM II A/B
UL style	AWM 20236
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1

Technical data sheet
PUR feedback cables · C-track compatible · shielded

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK Encoder cables for Siemens and other systems For highest requirements in drive technology



Identification

Type	SU+(C) PUR FB (2×0,5+4×0,23+3×(2×0,14)+4×0,14) 30V
Part No.	111457
SIEMENS designation*	1BD51

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer sensor, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×0.5+4×0.23+3×(2×0.14)+4×0.14)
Number of conductors	16
Cross-section, metric	0.5 mm²

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	9.8 mm
Outer Ø	0.386 inch
Surface	adhesion-free, matte
Weight	15.3 kg/100 m
Weight	103 Lbs/Mft
Cu-Index	9.3 kg/100 m
Cu-Index	62 Lbs/Mft

Construction Element 1

Element construction	2×0.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	brown/blue • brown/red
Conductor insulation	Polyolefin
Stranding	strands braided together conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	4×0.23
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	green/red • green/black • brown/yellow • brown/grey
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised

Construction Element 3

Element construction	3×(2×0.14)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 DIN EN 13602 Superfinely stranded DIN VDE 0295
Conductor marking	yellow • green • black • brown • red • orange
Conductor insulation	TPE-E

mechanical stress

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Construction Element 4

Element construction	4×0.14
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 DIN EN 13602 Superfinely stranded DIN VDE 0295
Conductor marking	blue · grey · white/yellow · white/black
Conductor insulation	Polyolefin
Stranding	conductors layered construction conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Inner jacket	Special TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	30 V
Test voltage type	AC 500 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	2×0.5
----------------------	-------

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Technical Data Element 2

Element construction	4×0.23
Operating capacitance wire-wire	approx.57 pF/m
Operating capacitance wire-shield	approx.103 pF/m

Technical Data Element 3

Element construction	3×(2×0.14)
Operating capacitance wire-wire	approx.147 pF/m
Operating capacitance wire-shield	approx.270 pF/m

Technical Data Element 4

Element construction	4×0.14
Operating capacitance wire-wire	approx.53 pF/m
Operating capacitance wire-shield	approx.96 pF/m

Certifications/Standards

Certifications	cURus AWM II A/B
UL style	AWM 20236
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 HD 22.10
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS and DRIVE-CLiQ are registered trademarks
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Encoder cables for Siemens and other systems

For highest requirements in drive technology



Identification

Type	SU+(C) PUR FB (12×0,23) 30V
Part No.	111454
SIEMENS designation*	1BD81

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(12×0.23)
Number of conductors	12
Cross-section, metric	0.23 mm²

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	7.4 mm
Outer Ø	0.291 inch
Surface	adhesion-free, matte
Weight	8.5 kg/100 m
Weight	57 Lbs/Mft
Cu-Index	4.7 kg/100 m
Cu-Index	32 Lbs/Mft

Construction Element 1

Element construction	(12×0.23)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • brown • red • orange • yellow • green • blue • violet • grey • white • white/black • white/brown
Conductor insulation	Polyolefin

Overall construction

Overall stranding	layered construction conductors twisted without mechanical stress layer pitch optimised
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	30 V
Test voltage type	AC 500 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Technical Data Element 1

Element construction	(12×0.23)
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.53 pF/m
Operating capacitance wire-shield	approx.96 pF/m

Certifications/Standards

Certifications	cURus AWM II A/B
UL style	AWM 20236
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 HD 22.10
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Encoder cables for Siemens and other systems

For highest requirements in drive technology



Identification

Type	SU+(C) PUR FB (4×2×0,18) 30V
Part No.	111453
SIEMENS designation*	1BD61

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(4×2×0.18)
Number of conductors	8
Cross-section, metric	0.18 mm²

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	6.6 mm
Outer Ø	0.26 inch
Surface	adhesion-free, matte
Weight	7.6 kg/100 m
Weight	51 Lbs/Mft
Cu-Index	3.2 kg/100 m
Cu-Index	22 Lbs/Mft

Construction Element 1

Element construction	(4×2×0.18)
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	violet · blue · green · yellow · red · orange · brown · black
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	stranded pairs layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	30 V
Test voltage type	AC 500 V
Temperature range moving	-25 °C ... +80 °C

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Torsion	± 30°/m
---------	---------

Technical Data Element 1

Element construction	(4×2×0.18)
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.78 pF/m
Operating capacitance wire-shield	approx.140 pF/m

Certifications/Standards

Certifications	cURus AWM II A/B
UL style	AWM 20236
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 HD 22.10
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G2,5) 90°C
Part No.	111461.1000
SIEMENS designation*	1BB21

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G2,5)
Number of conductors	4
Cross-section, metric	2.5 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	10.8 mm
Surface	adhesion-free, matte
Weight	19.09 kg/100 m
Weight	127.91 Lbs/Mft
Cu-Index	13 kg/100 m
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G2,5)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, Class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	Conductors twisted without mechanical stress Layer pitch optimised

Overall construction

Overall stranding	Conductors layered construction Conductors twisted without mechanical stress Layer pitch optimised
Overall shield	Braid shield Optical cover approx. 85 %

Technical data

Rated voltage U_0/U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR servo cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G2,5) 1kV
Part No.	111461
SIEMENS designation*	1BB21

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G2.5)
Number of conductors	4

Technical data sheet

PUR servo cables · C-track compatible · shielded

Cross-section, metric	2.5 mm ²
Cross-section AWG	AWG 14
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	10.8 mm
Outer Ø	0.425 inch
Surface	adhesion-free, matte
Weight	17.3 kg/100 m
Weight	115.9 Lbs/Mft
Cu-Index	13 kg/100 m
Cu-Index	80 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G2.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE

Overall construction

Overall stranding	conductors twisted without mechanical stress layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U ₀ /U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(4G2.5)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.105 pF/m
Operating capacitance wire-shield	approx.185 pF/m

Technical Data Element 2

Insulation resistance at 20 °C	1000 MΩ×km
--------------------------------	------------

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G1,5) 90°C
Part No.	111460.1000
SIEMENS designation*	1BB11

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G1,5)
Number of conductors	4
Cross-section, metric	1.5 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	8.7 mm
Surface	adhesion-free, matte
Weight	12.26 kg/100 m
Weight	82.12 Lbs/Mft
Cu-Index	8.3 kg/100 m
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G1,5)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	conductors layered construction conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U_0/U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR servo cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G1,5) 1kV
Part No.	111460
SIEMENS designation*	1BB11

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G1.5)
Number of conductors	4

Technical data sheet

PUR servo cables · C-track compatible · shielded

Cross-section, metric	1.5 mm ²
Cross-section AWG	AWG 16
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	8.6 mm
Outer Ø	0.339 inch
Surface	adhesion-free, matte
Weight	11.7 kg/100 m
Weight	78.4 Lbs/Mft
Cu-Index	8.3 kg/100 m
Cu-Index	51 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE

Overall construction

Overall stranding	conductors twisted without mechanical stress layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U ₀ /U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(4G1.5)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.80 pF/m
Operating capacitance wire-shield	approx.140 pF/m

Technical Data Element 2

Insulation resistance at 20 °C	1000 MΩ×km
--------------------------------	------------

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Encoder cables for Siemens and other systems

For highest requirements in drive technology



Identification

Type	SU+(C) PUR FB (2×(0,5)+3×(2×0,14) 30V
Part No.	111459
SIEMENS designation*	1BD31

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×(0.5)+3×(2×0.14))
Number of conductors	8
Cross-section, metric	0.5 mm ²

Technical data sheet
PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	8.7 mm
Outer Ø	0.343 inch
Surface	adhesion-free, matte
Weight	12.8 kg/100 m
Weight	86 Lbs/Mft
Cu-Index	6.9 kg/100 m
Cu-Index	46 Lbs/Mft

Construction Element 1

Element construction	2×(0.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	red · black
Conductor insulation	TPE-E
Stranding	conductors twisted without mechanical stress layer pitch optimised
Element shielding	Spiral shield optical cover approx. 90% Tinned copper wires

Construction Element 2

Element construction	3×(2×0.14)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	yellow · green · red · orange · brown · black
Conductor insulation	TPE-E
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised
Element shielding	Spiral shield optical cover approx. 90% tinned copper wires

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage	30 V
Test voltage type	AC 500 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	2×(0.5)
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-shield	approx.530 pF/m

Technical Data Element 2

Element construction	3×(2×0.14)
Operating capacitance wire-wire	approx.147 pF/m
Operating capacitance wire-shield	approx.270 pF/m

Certifications/Standards

Certifications	cURus AWM II A/B
UL style	AWM 20236
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1

Technical data sheet

PUR feedback cables · C-track compatible · shielded

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G6) 90°C
Part No.	111463.1000
SIEMENS designation*	1BB41

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G6)
Number of conductors	4
Cross-section, metric	6 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	14.2 mm
Surface	adhesion-free, matte
Weight	37.47 kg/100 m
Weight	251.02 Lbs/Mft
Cu-Index	27.5 kg/100 m
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G6)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	conductors layered construction conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U_0/U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR servo cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 758 UL 1581 VW-1 CSA FT 1 UL C22.2 No. 210.2
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G10) 1kV
Part No.	111464
SIEMENS designation*	1BB51

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G10)
Number of conductors	4

Technical data sheet

PUR servo cables · C-track compatible · shielded

Cross-section, metric	10 mm ²
Cross-section AWG	AWG 8
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	17.6 mm
Outer Ø	0.693 inch
Surface	adhesion-free, matte
Weight	54.9 kg/100 m
Weight	367.8 Lbs/Mft
Cu-Index	45 kg/100 m
Cu-Index	302 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G10)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE

Overall construction

Overall stranding	conductors twisted without mechanical stress layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U ₀ /U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(4G10)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.140 pF/m
Operating capacitance wire-shield	approx.245 pF/m

Technical Data Element 2

Insulation resistance at 20 °C	1000 MΩ×km
--------------------------------	------------

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G4) 90°C
Part No.	111462.1000
SIEMENS designation*	1BB31

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G4)
Number of conductors	4
Cross-section, metric	4 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	12.2 mm
Surface	adhesion-free, matte
Weight	27.22 kg/100 m
Cu-Index	19.3 kg/100 m
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G4)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	conductors layered construction conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U_0/U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(4G4)
----------------------	-------

Technical data sheet

PUR servo cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G6) 1kV
Part No.	111463
SIEMENS designation*	1BB41

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G6)
Number of conductors	4

Technical data sheet

PUR servo cables · C-track compatible · shielded

Cross-section, metric	6 mm ²
Cross-section AWG	AWG 10
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	14 mm
Outer Ø	0.551 inch
Surface	adhesion-free, matte
Weight	36.5 kg/100 m
Weight	244.6 Lbs/Mft
Cu-Index	27.5 kg/100 m
Cu-Index	194 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G6)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE

Overall construction

Overall stranding	conductors twisted without mechanical stress layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U ₀ /U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(4G6)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.120 pF/m
Operating capacitance wire-shield	approx.210 pF/m

Technical Data Element 2

Insulation resistance at 20 °C	1000 MΩ×km
--------------------------------	------------

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G4) 1kV
Part No.	111462
SIEMENS designation*	1BB31

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G4)
Number of conductors	4

Technical data sheet

PUR servo cables · C-track compatible · shielded

Cross-section, metric	4 mm ²
Cross-section AWG	AWG 12
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	12.2 mm
Outer Ø	0.48 inch
Surface	adhesion-free, matte
Weight	24.5 kg/100 m
Weight	164.2 Lbs/Mft
Cu-Index	19.3 kg/100 m
Cu-Index	126 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G4)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE

Overall construction

Overall stranding	conductors twisted without mechanical stress layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U ₀ /U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(4G4)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.115 pF/m
Operating capacitance wire-shield	approx.200 pF/m

Technical Data Element 2

Insulation resistance at 20 °C	1000 MΩ×km
--------------------------------	------------

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G35) 1kV
Part No.	111467
SIEMENS designation*	1BB35

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G35)
Number of conductors	4

Technical data sheet

PUR servo cables · C-track compatible · shielded

Cross-section, metric	35 mm ²
Cross-section AWG	AWG 2
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	28.8 mm
Outer Ø	1.114 inch
Surface	adhesion-free, matte
Weight	169.2 kg/100 m
Weight	1133.6 Lbs/Mft
Cu-Index	152.4 kg/100 m
Cu-Index	1012 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G35)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE

Overall construction

Overall stranding	conductors twisted without mechanical stress layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U ₀ /U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(4G35)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.145 pF/m
Operating capacitance wire-shield	approx.255 pF/m

Technical Data Element 2

Insulation resistance at 20 °C	1000 MΩ×km
--------------------------------	------------

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G16) 90°C
Part No.	111465.1000
SIEMENS designation*	1BB61

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G16)
Number of conductors	4
Cross-section, metric	16 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	21.2 mm
Surface	adhesion-free, matte
Weight	89.77 kg/100 m
Weight	601.44 Lbs/Mft
Cu-Index	72 kg/100 m
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G16)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	conductors layered construction conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U_0/U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR servo cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G25) 1kV
Part No.	111466
SIEMENS designation*	1BB25

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G25)
Number of conductors	4

Technical data sheet

PUR servo cables · C-track compatible · shielded

Cross-section, metric	25 mm ²
Cross-section AWG	AWG 4
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	25 mm
Outer Ø	0.984 inch
Surface	adhesion-free, matte
Weight	129.9 kg/100 m
Weight	870.3 Lbs/Mft
Cu-Index	108 kg/100 m
Cu-Index	737 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G25)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE

Overall construction

Overall stranding	conductors twisted without mechanical stress layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U ₀ /U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(4G25)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.145 pF/m
Operating capacitance wire-shield	approx.255 pF/m

Technical Data Element 2

Insulation resistance at 20 °C	1000 MΩ×km
--------------------------------	------------

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G10) 90°C
Part No.	111464.1000
SIEMENS designation*	1BB51

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G10)
Number of conductors	4
Cross-section, metric	10 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	17.6 mm
Surface	adhesion-free, matte
Weight	58.17 kg/100 m
Weight	389.71 Lbs/Mft
Cu-Index	45 kg/100 m
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G10)
Conductor	CU-wire bare
Conductor category	Superfinely stranded DIN VDE 0295 DIN EN 60228, class 6
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	conductors layered construction conductors twisted without mechanical stress layer pitch optimised
Overall shield	Braid shield optical cover approx. 85 %

Technical data

Rated voltage U_0/U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR servo cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G16) 1kV
Part No.	111465
SIEMENS designation*	1BB61

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G16)
Number of conductors	4

Technical data sheet

PUR servo cables · C-track compatible · shielded

Cross-section, metric	16 mm ²
Cross-section AWG	AWG 6
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	21.2 mm
Outer Ø	0.835 inch
Surface	adhesion-free, matte
Weight	84.9 kg/100 m
Weight	568.8 Lbs/Mft
Cu-Index	72 kg/100 m
Cu-Index	476 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G16)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE

Overall construction

Overall stranding	conductors twisted without mechanical stress layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U ₀ /U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(4G16)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.140 pF/m
Operating capacitance wire-shield	approx.245 pF/m

Technical Data Element 2

Insulation resistance at 20 °C	1000 MΩ×km
--------------------------------	------------

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for Allen-Bradley and other systems
For highest requirements in drive technology



Identification

Type SU+ (C)PUR FB(2×AWG16+2×AWG22+6×2×AWG26)
Part No. [111489.2000](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×AWG16+2×AWG22+6×2×AWG26)
Number of conductors	16
Cross-section, metric	1.5 mm²
Cross-section AWG	AWG 16

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	10.8 mm
Outer Ø	0.425 inch
Surface	adhesion-free, matte
Weight	15.12 kg/100 m
Weight	101.32 Lbs/Mft
Cu-Index	10.5 kg/100 m
Cu-Index	70 Lbs/Mft

Construction Element 1

Element construction	2×AWG16
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	grey · white/grey
Conductor insulation	Special TPE
Stranding	layer pitch optimised conductors twisted without mechanical stress

Construction Element 2

Element construction	2×AWG22
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	orange · white/orange
Conductor insulation	PP
Stranding	layer pitch optimised conductors twisted without mechanical stress

Construction Element 3

Element construction	6×2×AWG26
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	white/black · black · white/red · red · white/green · green · white/blue · blue · white/brown · brown · white/yellow · yellow
Conductor insulation	PP
Stranding	conductors stranded in pairs layer pitch optimised mechanical stress

mechanical stress

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	2×AWG16
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	75 pF/m
Operating capacitance wire-shield	135 pF/m

Technical Data Element 2

Element construction	2×AWG22
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	60 pF/m
Operating capacitance wire-shield	110 pF/m

Technical Data Element 3

Element construction	6×2×AWG26
Insulation resistance 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	50 pF/m
Operating capacitance wire-shield	90 pF/m

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482 322-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 1581 4 days at 100 °C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for Allen-Bradley and other systems

For highest requirements in drive technology



Identification

Type SU+ (C) PUR FB (5×2×AWG22) 1kV
Part No. [111488.2000](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering• Feedback cables for Allen-Bradley drives• Compatible with all major drag chain brands• Compliant with NFPA 79, Article 12.9 |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• UV-resistant• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Talc free and silicone free |

Construction

Description SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section (5×2×AWG22)

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Number of conductors	10
Cross-section, metric	0.34 mm ²
Cross-section AWG	AWG 22
Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	9.2 mm
Outer Ø	0.362 inch
Surface	adhesion-free, matte
Weight	10.52 kg/100 m
Weight	70.5 Lbs/Mft
Cu-Index	5.9 kg/100 m
Cu-Index	39 Lbs/Mft

Construction Element 1

Element construction	(5×2×AWG22)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white/black • black • white/red • red • white/green • green • white/grey • grey • white/orange • orange
Conductor insulation	Special TPE
Stranding	layer pitch optimised conductors twisted without mechanical stress

Overall construction

Overall stranding	stranded pairs layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(5×2×AWG22)
Insulation resistance at 20 °C	≥200 MΩ×km
Conductor resistance	55 Ω/km
Operating capacitance wire-wire	60 pF/m
Operating capacitance wire-shield	110 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482 322-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 1581 4 days at 100 °C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for Allen-Bradley and other systems

For highest requirements in drive technology



Identification

Type SU+ (C)PUR FB(2×AWG16+2×AWG22+6×2×AWG26)
Part No. [111489](#)

Product version

Datasheet version 02

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×AWG16+2×AWG22+6×2×AWG26)
Number of conductors	16
Cross-section, metric	1.5 mm²
Cross-section AWG	AWG 16

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	10.8 mm
Outer Ø	0.425 inch
Surface	adhesion-free, matte
Weight	18 kg/100 m
Weight	121 Lbs/Mft
Cu-Index	12 kg/100 m
Cu-Index	81 Lbs/Mft

Construction Element 1

Element construction	2×AWG16
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	grey • white/grey
Conductor insulation	Special TPE
Stranding	layer pitch optimised conductors twisted without mechanical stress

Construction Element 2

Element construction	2×AWG22
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	orange • white/orange
Conductor insulation	Special TPE
Stranding	layer pitch optimised conductors twisted without mechanical stress

Construction Element 3

Element construction	6×2×AWG26
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	white/black • black • white/red • red • white/green • green • white/blue • blue • white/brown • brown • white/yellow • yellow
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised mechanical stress

mechanical stress

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	2×AWG16
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	75 pF/m
Operating capacitance wire-shield	135 pF/m

Technical Data Element 2

Element construction	2×AWG22
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	60 pF/m
Operating capacitance wire-shield	110 pF/m

Technical Data Element 3

Element construction	6×2×AWG26
Insulation resistance 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	50 pF/m
Operating capacitance wire-shield	90 pF/m

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404 UL 1581
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G50) 1kV
Part No.	111468
SIEMENS designation*	1BB50

Product version

Datasheet version	04
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G50)
Number of conductors	4

Technical data sheet

PUR servo cables · C-track compatible · shielded

Cross-section, metric	50 mm ²
Cross-section AWG	AWG 2
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	33.9 mm
Outer Ø	1.335 inch
Surface	adhesion-free, matte
Weight	244.2 kg/100 m
Weight	1636.1 Lbs/Mft
Cu-Index	216.8 kg/100 m
Cu-Index	1427 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G50)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE

Overall construction

Overall stranding	conductors twisted without mechanical stress layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U ₀ /U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C

Technical data sheet

PUR servo cables · C-track compatible · shielded

Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(4G50)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.152 pF/m
Operating capacitance wire-shield	approx.260 pF/m

Technical Data Element 2

Insulation resistance at 20 °C	1000 MΩ×km
--------------------------------	------------

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 part 1080 VW-1 CSA FT 1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS und Siemens Artikelbezeichnungen sind eingetragene Warenzeichen der Siemens AG.
------	---

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for Allen-Bradley and other systems

For highest requirements in drive technology



Identification

Type SU+ (C) PUR FB (5×2×AWG22) 1kV

Part No. [111488](#)

Product version

Datasheet version 02

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering• Feedback cables for Allen-Bradley drives• Compatible with all major drag chain brands• Compliant with NFPA 79, Article 12.9
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• UV-resistant• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Talc free and silicone free

Construction

Description SUPERFLEX® PLUS (C) PUR FEEDBACK

Number of conductors/cross-section (5×2×AWG22)

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Number of conductors	10
Cross-section, metric	0.34 mm ²
Cross-section AWG	AWG 22
Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	9.2 mm
Outer Ø	0.362 inch
Surface	adhesion-free, matte
Weight	10.7 kg/100 m
Weight	72 Lbs/Mft
Cu-Index	5.4 kg/100 m
Cu-Index	36 Lbs/Mft

Construction Element 1

Element construction	(5×2×AWG22)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	white/black · black · white/red · red · white/green · green · white/grey · grey · white/orange · orange
Conductor insulation	Special TPE
Stranding	layer pitch optimised conductors twisted without mechanical stress

Overall construction

Overall stranding	stranded pairs layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	(5×2×AWG22)
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	60 pF/m
Operating capacitance wire-shield	110 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404 UL 1581
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 5G4 1KV SW

Part No. [111545](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	5G4
Number of conductors	5
Cross-section, metric	4 mm ²
Cross-section AWG	AWG 12
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	13 mm
Outer Ø	0.512 inch
Surface	adhesion-free, matte
Weight	26.8 kg/100 m
Weight	192 Lbs/Mft
Cu-Index	19.4 kg/100 m
Cu-Index	130 Lbs/Mft

Construction Element 1

Element construction	5G4
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥5 Mio
Speed	≤4 m/s

Technical data sheet
PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.69 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR motor cables · C-track compatible · unshielded

LUTZE SUPERFLEX® PLUS M PUR 0.6/1 kV

Motor/energy supply cable

For highest requirements



Identification

Type SU+ M PUR 5G16 1KV SW

Part No. [111548](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Motor connection cable, specifically for machine and device construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments, machines and plants
Properties	<ul style="list-style-type: none">• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M PUR 0.6/1 kV
Number of conductors/cross-section	5G16
Number of conductors	5
Cross-section, metric	16 mm ²
Cross-section AWG	AWG 6
Jacket material	PUR
Jacket color	black similar to RAL 9005

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Outer Ø	24.2 mm
Outer Ø	0.953 inch
Surface	adhesion-free, matte
Weight	112.6 kg/100 m
Weight	784 Lbs/Mft
Cu-Index	77.5 kg/100 m
Cu-Index	516 Lbs/Mft

Construction Element 1

Element construction	5G16
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • green/yellow
Conductor insulation	Special TPE
Stranding	conductors layered construction conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	4×D
Bending cycles	≥5 Mio
Speed	≤2 m/s

Technical data sheet

PUR motor cables · C-track compatible · unshielded

Operating capacitance wire-wire approx.72 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1 UL 1581 VW-1, FT1
Oil resistant according to	UL 4d100C VDE 0282 T 10 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for Bosch-Rexroth and other systems

For highest requirements in drive technology



Identification

Type	SU+ (C) PUR FB (4×1,0+4×2×0,14+(4×0,14))
Part No.	111495
INK Description*	INK-0532*

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(4×1.0+4×2×0.14+(4×0.14))
Number of conductors	16
Cross-section, metric	1 mm²

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	9.5 mm
Outer Ø	0.374 inch
Surface	adhesion-free, matte
Weight	13.7 kg/100 m
Weight	92 Lbs/Mft
Cu-Index	9.6 kg/100 m
Cu-Index	65 Lbs/Mft

Construction Element 1

Element construction	4×1.0
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	blue · white · white/green · brown/black
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	4×2×0.14
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	red · black · green · brown · grey · pink · yellow · violet
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress

Construction Element 3

Element construction	(4×0.14)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black/green · black/yellow · black/blue · black/red
Conductor insulation	Special TPE

mechanical stress

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Overall construction

Overall stranding	layered construction around core elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4×1.0
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.51 pF/m
Operating capacitance wire-shield	approx.92 pF/m

Technical Data Element 2

Element construction	4×2×0.14
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.51 pF/m
Operating capacitance wire-shield	approx.92 pF/m

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 20233
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Lenze and other systems

For highest requirements



Identification

Type SU+ M (C) PUR SE (4G1,5+(2×0,5)) 1kV

Part No. [111536](#)

Product version

Datasheet version 00

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G1.5+(2×0.5))
Number of conductors	6
Cross-section, metric	1.5 mm ²

Technical data sheet

PVC servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	11 mm
Surface	adhesion-free, matte
Weight	19.2 kg/100 m
Cu-Index	10.6 kg/100 m

Construction Element 1

Element construction	4G1.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×0.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	brown · white
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free)

Technical data sheet

PVC servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G1.5
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.67 pF/m
Operating capacitance wire-shield	approx.121 pF/m

Technical Data Element 2

Element construction	(2×0.5)
Operating capacitance wire-wire	approx.81 pF/m
Operating capacitance wire-shield	approx.146 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

in conformity with the EU Low Voltage Directive 2014/

Technical data sheet

PUR feedback cables · C-track compatible

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for various systems

For highest requirements in drive technology



Identification

Type	SU+ (C) PUR FB (5×0,5+2×2×0,18)
Part No.	111491
System	Fanuc

Product version

Datasheet version	02
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(5×0,5+2×2×0,18)
Number of conductors	9
Cross-section, metric	0.5 mm ²

Technical data sheet

PUR feedback cables · C-track compatible

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	7.7 mm
Surface	adhesion-free, matte
Weight	9.3 kg/100 m
Cu-Index	6.3 kg/100 m

Construction Element 1

Element construction	5×0.5
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	green • yellow • grey • pink • blue
Conductor insulation	Special TPE
Stranding	layer pitch optimised conductors twisted without mechanical stress

Construction Element 2

Element construction	2×2×0.18
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 IEC 60228, Class 6
Conductor marking	white • brown • black • violet
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant

Technical data sheet

PUR feedback cables · C-track compatible

Test voltage type	AC 2000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	5×0.5
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.61 pF/m
Operating capacitance wire-shield	approx.110 pF/m

Technical Data Element 2

Element construction	2×2×0.18
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.56 pF/m
Operating capacitance wire-shield	approx.101 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 20233
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for SEW and other systems

For highest standards



Identification

Type SU+ M (C) PUR SE (4G6+(3×1,5)) 1kV

Part No. [111563](#)

Product version

Datasheet version 02

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G6+(3×1.5))
Number of conductors	7
Cross-section, metric	6 mm²

Technical data sheet

PVC servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	17 mm
Weight	52.9 kg/100 m
Cu-Index	34.4 kg/100 m

Construction Element 1

Element construction	4G6
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(3×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free)

Technical data sheet

PVC servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/100 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G6
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.84 pF/m
Operating capacitance wire-shield	approx.151 pF/m

Technical Data Element 2

Element construction	(3×1.5)
Operating capacitance wire-wire	approx.65 pF/m
Operating capacitance wire-shield	approx.117 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

in conformity with the EU Low Voltage Directive 2014/

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for SEW and other systems

For highest standards



Identification

Type SU+ M (C) PUR SE (4G10+(3×1,5)) 1kV

Part No. [111564](#)

Product version

Datasheet version 02

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G10+(3×1.5))
Number of conductors	7
Cross-section, metric	10 mm²

Technical data sheet

PVC servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	20.5 mm
Weight	73 kg/100 m
Cu-Index	52.2 kg/100 m

Construction Element 1

Element construction	4G10
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(3×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free)

Technical data sheet

PVC servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/100 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G10
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.81 pF/m
Operating capacitance wire-shield	approx.146 pF/m

Technical Data Element 2

Element construction	(3×1.5)
Operating capacitance wire-wire	approx.65 pF/m
Operating capacitance wire-shield	approx.117 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

in conformity with the EU Low Voltage Directive 2014/

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for SEW and other systems

For highest standards



Identification

Type SU+ M (C) PUR SE (4G4+(3×1,0)) 1kV

Part No. [111562](#)

Product version

Datasheet version 02

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G4+(3×1.0))
Number of conductors	7
Cross-section, metric	4 mm²

Technical data sheet

PVC servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	14.7 mm
Weight	39.6 kg/100 m
Cu-Index	25.6 kg/100 m

Construction Element 1

Element construction	4G4
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(3×1.0)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free)

Technical data sheet

PVC servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/100 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G4
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.78 pF/m
Operating capacitance wire-shield	approx.140 pF/m

Technical Data Element 2

Element construction	(3×1.0)
Operating capacitance wire-wire	approx.63 pF/m
Operating capacitance wire-shield	approx.113 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

in conformity with the EU Low Voltage Directive 2014/

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for SEW and other systems

For highest standards



Identification

Type SU+ M (C) PUR SE (4G1,5+(3×1,0)) 1kV

Part No. [111560](#)

Product version

Datasheet version 02

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G1.5+(3×1.0))
Number of conductors	7
Cross-section, metric	1.5 mm ²

Technical data sheet

PVC servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	11.8 mm
Weight	24.4 kg/100 m
Cu-Index	13.9 kg/100 m

Construction Element 1

Element construction	4G1.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(3×1)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised
Element shielding	Braid shield

Construction Element 3

Conductor insulation	Polyolefin
----------------------	------------

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant

Technical data sheet

PVC servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/100 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G1.5
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.67 pF/m
Operating capacitance wire-shield	approx.121 pF/m

Technical Data Element 2

Element construction	(3×1)
Operating capacitance wire-wire	approx.63 pF/m
Operating capacitance wire-shield	approx.113 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

in conformity with the EU Low Voltage Directive 2014/

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for SEW and other systems

For highest standards



Identification

Type SU+ M (C) PUR SE (4G2,5+(3×1,0)) 1kV

Part No. [111561](#)

Product version

Datasheet version 02

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G2.5+(3×1.0))
Number of conductors	7
Cross-section, metric	2.5 mm²

Technical data sheet

PVC servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	13.7 mm
Weight	30.6 kg/100 m
Cu-Index	18.3 kg/100 m

Construction Element 1

Element construction	4G2.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(3×1)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free)

Technical data sheet

PVC servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/100 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G2.5
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.71 pF/m
Operating capacitance wire-shield	approx.128 pF/m

Technical Data Element 2

Element construction	(3×1)
Operating capacitance wire-wire	approx.63 pF/m
Operating capacitance wire-shield	approx.113 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

in conformity with the EU Low Voltage Directive 2014/

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0,6/1 kV

Combined power supply cable for servo motors with Hiperface DSL® interface

For the highest of standards



Identification

Type SU+ M (C) PUR HY (4G4+(2×1,0)+(2×AWG22))

Part No. [111633](#)

Product version

Datasheet version 03

Use/Application/Properties

Application	<ul style="list-style-type: none">• Combined power supply cable with motor supply, brake and digital feedback especially for SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0.6/1 kV
Number of conductors/cross-section	(4G4+(2×1.0)+(2×AWG22))
Number of conductors	8
Cross-section, metric	4 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	TPE-U
Jacket color	orange similar to RAL 2003
Outer Ø	16.2 mm
Outer Ø	0.638 inch
Surface	matte, adhesion-free
Weight	40.8 kg/100 m
Cu-Index	28.9 kg/100 m
Cable construction	with control pair (black, white) and BUS pair (white, blue)

Construction Element 1

Element construction	4G4
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Polyolefin
Stranding	conductors layered construction

Construction Element 2

Element construction	(2×1.0)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • white
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs
Wrapping	transparent plastic film
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Construction Element 3

Element construction	(2×AWG22)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white • blue
Conductor insulation	Polyolefin
	pairs

Technical data sheet

PUR servo cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Halogen free Silicone-free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G4
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 2

Element construction	(2×1.0)
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 3

Element construction	(2×AWG22)
Insulation resistance 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.45 pF/m
Impedance	nom.110 Ω

Certifications/Standards

Technical data sheet

PUR servo cables · C-track compatible · shielded

Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404
Halogen free according to	IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0,6/1 kV

Combined power supply cable for servo motors with Hiperface DSL® interface

For the highest of standards



Identification

Type SU+ M (C) PUR HY (4G6+(2×1,0)+(2×AWG22))

Part No. [111634](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Combined power supply cable with motor supply, brake and digital feedback especially for SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0.6/1 kV
Number of conductors/cross-section	(4G6+(2×1.0)+(2×AWG22))
Number of conductors	8
Cross-section, metric	6 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	TPE-U
Jacket color	orange similar to RAL 2003
Outer Ø	18 mm
Outer Ø	0.709 inch
Surface	matte, adhesion-free
Weight	51.2 kg/100 m
Cu-Index	37.3 kg/100 m
Cable construction	with control pair (black, white) and BUS pair (white, blue)

Construction Element 1

Element construction	4G6
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Polyolefin
Stranding	conductors layered construction

Construction Element 2

Element construction	(2×1.0)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • white
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs
Wrapping	transparent plastic film
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Construction Element 3

Element construction	(2×AWG22)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white • blue
Conductor insulation	Polyolefin
	pairs

Technical data sheet

PUR servo cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Halogen free Silicone-free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G6
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 2

Element construction	(2×1.0)
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 3

Element construction	(2×AWG22)
Insulation resistance 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.45 pF/m
Impedance	nom.110 Ω

Certifications/Standards

Technical data sheet

PUR servo cables · C-track compatible · shielded

Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404
Halogen free according to	IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0,6/1 kV

Combined power supply cable for servo motors with Hiperface DSL® interface

For the highest of standards



Identification

Type SU+ M(C)PUR HY (4G1,5+(2×1,0)+(2×AWG22))

Part No. [111631](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Combined power supply cable with motor supply, brake and digital feedback especially for SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0.6/1 kV
Number of conductors/cross-section	(4G1.5+(2×1.0)+(2×AWG22))
Number of conductors	8
Cross-section, metric	1.5 mm ²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	TPE-U
Jacket color	orange similar to RAL 2003
Outer Ø	13.2 mm
Outer Ø	0.52 inch
Surface	matte, adhesion-free
Weight	25.1 kg/100 m
Cu-Index	16.3 kg/100 m
Cable construction	with control pair (black, white) and BUS pair (white, blue)

Construction Element 1

Element construction	4G1.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Polyolefin
Stranding	conductors layered construction

Construction Element 2

Element construction	(2×1.0)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • white
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs
Wrapping	transparent plastic film
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Construction Element 3

Element construction	(2×AWG22)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white • blue
Conductor insulation	Polyolefin
	pairs

Technical data sheet

PUR servo cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Halogen free Silicone-free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G1.5
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 2

Element construction	(2×1.0)
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 3

Element construction	(2×AWG22)
Insulation resistance 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.45 pF/m
Impedance	nom.110 Ω

Certifications/Standards

Technical data sheet

PUR servo cables · C-track compatible · shielded

Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404
Halogen free according to	IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0,6/1 kV

Combined power supply cable for servo motors with Hiperface DSL® interface

For the highest of standards



Identification

Type SU+ M(C)PUR HY (4G2,5+(2×1,0)+(2×AWG22))
Part No. [111632](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Combined power supply cable with motor supply, brake and digital feedback especially for SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0.6/1 kV
Number of conductors/cross-section	(4G2.5+(2×1.0)+(2×AWG22))
Number of conductors	8
Cross-section, metric	2.5 mm ²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	TPE-U
Jacket color	orange similar to RAL 2003
Outer Ø	14.5 mm
Outer Ø	0.571 inch
Surface	matte, adhesion-free
Weight	31.4 kg/100 m
Cu-Index	21.7 kg/100 m
Cable construction	with control pair (black, white) and BUS pair (white, blue)

Construction Element 1

Element construction	4G2.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Polyolefin
Stranding	conductors layered construction

Construction Element 2

Element construction	(2×1.0)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • white
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs
Wrapping	transparent plastic film
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Construction Element 3

Element construction	(2×AWG22)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white • blue
Conductor insulation	Polyolefin
	pairs

Technical data sheet

PUR servo cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Halogen free Silicone-free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G2.5
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 2

Element construction	(2×1.0)
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 3

Element construction	(2×AWG22)
Insulation resistance 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.45 pF/m
Impedance	nom.110 Ω

Certifications/Standards

Technical data sheet

PUR servo cables · C-track compatible · shielded

Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404
Halogen free according to	IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0,6/1 kV

Combined power supply cable for servo motors with Hiperface DSL® interface

For the highest of standards



Identification

Type SU+ M(C)PUR HY(4G1,0+(2×0,75)+(2×AWG22))
Part No. [111630](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Combined power supply cable with motor supply, brake and digital feedback especially for SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0.6/1 kV
Number of conductors/cross-section	(4G1.0+(2×0.75)+(2×AWG22))
Number of conductors	8
Cross-section, metric	1 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	TPE-U
Jacket color	orange similar to RAL 2003
Outer Ø	12.4 mm
Outer Ø	0.488 inch
Surface	matte, adhesion-free
Weight	19 kg/100 m
Cu-Index	13.5 kg/100 m
Cable construction	with control pair (black, white) and BUS pair (white, blue)

Construction Element 1

Element construction	4G1.0
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Polyolefin
Stranding	conductors layered construction

Construction Element 2

Element construction	(2×0.75)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • white
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs
Wrapping	transparent plastic film
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Construction Element 3

Element construction	(2×AWG22)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white • blue
Conductor insulation	Polyolefin
	pairs

Technical data sheet

PUR servo cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Halogen free Silicone-free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G1.0
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 2

Element construction	(2×0.75)
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 3

Element construction	(2×AWG22)
Insulation resistance 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.45 pF/m
Impedance	nom.110 Ω

Certifications/Standards

Technical data sheet

PUR servo cables · C-track compatible · shielded

Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404
Halogen free according to	IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Encoder cables for Siemens and other systems

For highest requirements in drive technology



Identification

Type	SU+(C) PUR FB (2×0,5+4×0,22+3×(2×0,14)+4×0,14) 30V
Part No.	111735
SIEMENS designation*	1BD51

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×0,5+4×0,22+3×(2×0,14)+4×0,14)
Number of conductors	16
Cross-section, metric	0.5 mm ²

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	9.4 mm
Surface	adhesion-free, matte
Weight	15.3 kg/100 m
Cu-Index	7.6 kg/100 m
Cu-Index	51 Lbs/Mft

Construction Element 1

Element construction	2×0.5
Conductor	CU-wire tin-plated AWG conductor
Conductor category	DIN EN 13602
Conductor marking	brown/blue • brown/red
Conductor insulation	PP blend
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	4×0,22
Conductor	CU-wire tin-plated AWG conductor
Conductor category	DIN EN 13602
Conductor marking	green/red • green/black • brown/yellow • brown/grey
Conductor insulation	PP blend
Stranding	star quad stranding conductors twisted without mechanical stress layer pitch optimised

Construction Element 3

Element construction	3×(2×0.14)
Conductor	CU-wire tin-plated AWG conductor
Conductor category	DIN EN 13602
Conductor marking	yellow • green • black • brown • red • orange
Conductor insulation	PP blend
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised
Wrapping	PET

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Construction Element 4

Element construction	4×0.14
Conductor	CU-wire tin-plated AWG conductor
Conductor category	DIN EN 13602
Conductor marking	blue · grey · white/yellow · white/black
Conductor insulation	PP blend
Stranding	star quad stranding conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Inner jacket	Special PE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage	30 V
Test voltage type	AC 500 V
Temperature range moving	-20 °C ... +60 °C
Temperature range fixed	-50 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	2×0.5
Insulation resistance at 20 °C	≥1000 MΩ×km

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Technical Data Element 3

Element construction	3×(2×0.14)
Conductor resistance	≤154.6 Ω/km
Operating capacitance wire-wire	approx.80 pF/m

Technical Data Element 4

Element construction	4×0.14
Conductor resistance	≤154.6 Ω/km

Certifications/Standards

Certifications	cURus AWM II A/B
UL style	AWM 20236
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 UL Cable Flame Test (UL 1581) UL FT1
Oil resistant according to	UL 758
Halogen free according to	DIN EN 60754-1 VDE 0482-754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type SU+ M (C) PUR SE (4G0,75+2×(2×0,34))
Part No. [111719](#)

Product version

Datasheet version 02

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For Indramat* system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section (4G0.75+2×(2×0.34))

Technical data sheet

PVC servo cables · C-track compatible · shielded

Number of conductors	8
Cross-section, metric	0.75 mm ²
Cross-section AWG	AWG 19
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	11.2 mm
Outer Ø	0.44 inch
Surface	adhesion-free, matte
Weight	17.7 kg/100 m
Cu-Index	9.5 kg/100 m
Cu-Index	63.92 Lbs/Mft
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G0.75
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	2×(2×0.34)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
-------------------	---

Technical data sheet

PVC servo cables · C-track compatible · shielded

Jacket characteristics	Flame-retardant Halogen free Silicone-free
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G0.75
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	82 pF/m
Operating capacitance wire-shield	156 pF/m

Technical Data Element 2

Element construction	$2 \times (2 \times 0.34)$
Operating capacitance wire-wire	66 pF/m
Operating capacitance wire-shield	126 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 UL 1581 part 1080 VW-1 UL FT1 UL VW-1
Oil resistant according to	Oil Res I DIN EN 60811-404

Technical data sheet

PVC servo cables · C-track compatible · shielded

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Leitungen für MS2N Motoren. Bosch-Rexroth und REL Artikelbezeichnungen sind eingetragene Warenzeichen der Bosch Gruppe.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0,6/1 kV

Combined power supply cable for servo motors with Hiperface DSL® interface

For the highest of standards



Identification

Type SU+ M(C)PUR HY(4G0,75+(2×0,34)+(2×AWG22))

Part No. [111728](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Combined power supply cable with motor supply, brake and digital feedback especially for SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0,6/1 kV
Number of conductors/cross-section	(4G0.75+(2×0.34)+(2×AWG22))
Number of conductors	8
Cross-section, metric	0.75 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	TPE-U
Jacket color	orange similar to RAL 2003
Outer Ø	11.7 mm
Outer Ø	0.46 inch
Surface	matte, adhesion-free
Weight	19.8 kg/100 m
Cu-Index	11.4 kg/100 m
Cable construction	with control pair (black, white) and BUS pair (white, blue)

Construction Element 1

Element construction	4G0,75
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Polyolefin
Stranding	conductors layered construction

Construction Element 2

Element construction	(2×0,34)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • white
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs
Wrapping	transparent plastic film
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Construction Element 3

Element construction	(2×AWG22)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white • blue
Conductor insulation	Polyolefin
	pairs

Technical data sheet

PUR servo cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Halogen free Silicone-free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G0,75
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 2

Element construction	(2×0,34)
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 3

Element construction	(2×AWG22)
Insulation resistance 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.45 pF/m
Impedance	nom.110 Ω

Certifications/Standards

Technical data sheet

PUR servo cables · C-track compatible · shielded

Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404
Halogen free according to	IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0,6/1 kV

Combined power supply cable for servo motors with Hiperface DSL® interface

For the highest of standards



Identification

Type SU+M (C) PUR HY (4G10+(2×1,5)+(2×AWG22))
Part No. [111635](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Combined power supply cable with motor supply, brake and digital feedback especially for SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0.6/1 kV
Number of conductors/cross-section	(4G10+(2×1.5)+(2×AWG22))
Number of conductors	8
Cross-section, metric	10 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	TPE-U
Jacket color	orange similar to RAL 2003
Outer Ø	21 mm
Outer Ø	0.827 inch
Surface	matte, adhesion-free
Weight	77.9 kg/100 m
Cu-Index	78.3 kg/100 m
Cable construction	with control pair (black, white) and BUS pair (white, blue)

Construction Element 1

Element construction	4G10
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Polyolefin
Stranding	conductors layered construction

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • white
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs
Wrapping	transparent plastic film
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Construction Element 3

Element construction	(2×AWG22)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white • blue
Conductor insulation	Polyolefin
	pairs

Technical data sheet

PUR servo cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Halogen free Silicone-free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G10
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 3

Element construction	(2×AWG22)
Insulation resistance 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.45 pF/m
Impedance	nom.110 Ω

Certifications/Standards

Technical data sheet

PUR servo cables · C-track compatible · shielded

Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404
Halogen free according to	IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0,6/1 kV

Combined power supply cable for servo motors with Hiperface DSL® interface

For the highest of standards



Identification

Type SU+M (C) PUR HY (4G16+(2×1,5)+(2×AWG22))
Part No. [111636](#)

Product version

Datasheet version 03

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Combined power supply cable with motor supply, brake and digital feedback especially for SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0.6/1 kV
Number of conductors/cross-section	(4G16+(2×1.5)+(2×AWG22))
Number of conductors	8
Cross-section, metric	16 mm²

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	TPE-U
Jacket color	orange similar to RAL 2003
Outer Ø	26 mm
Outer Ø	1.024 inch
Surface	matte, adhesion-free
Weight	119.8 kg/100 m
Cu-Index	119.8 kg/100 m
Cable construction	with control pair (black, white) and BUS pair (white, blue)

Construction Element 1

Element construction	4G16
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • yellow/green
Conductor insulation	Polyolefin
Stranding	conductors layered construction

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black • white
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs
Wrapping	transparent plastic film
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Construction Element 3

Element construction	(2×AWG22)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white • blue
Conductor insulation	Polyolefin
	pairs

Technical data sheet

PUR servo cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Halogen free Silicone-free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G16
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	≥500 MΩ×km

Technical Data Element 3

Element construction	(2×AWG22)
Insulation resistance 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.45 pF/m
Impedance	nom.110 Ω

Certifications/Standards

Technical data sheet

PUR servo cables · C-track compatible · shielded

Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404
Halogen free according to	IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for Bosch-Rexroth and other systems

For highest requirements in drive technology



Identification

Type	SU+ (C) PUR FB (2×1,0+4×2×0,25) 300V
Part No.	111749
INK Description*	INK-0209*

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×1,0+4×2×0,25)
Number of conductors	10
Cross-section, metric	1 mm²

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	9 mm
Outer Ø	0.354 inch
Surface	adhesion-free, matte
Weight	11.5 kg/100 m
Weight	77.05 Lbs/Mft
Cu-Index	6.5 kg/100 m
Cu-Index	43.55 Lbs/Mft

Construction Element 1

Element construction	2×1,0
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6
Conductor marking	white • brown
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	4×2×0,25
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6
Conductor marking	brown • green • grey • pink • red • black • blue • violet
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Non-woven material
Drain wire	CU-wire tin-plated
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	2×1,0
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.80 pF/m
Operating capacitance wire-shield	approx.150 pF/m

Technical Data Element 2

Element construction	4×2×0,25
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.60 pF/m
Operating capacitance wire-shield	approx.115 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 20233
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 VW-1, FT1
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET

Combined power supply cable for Bosch-Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE ET (4G1,5+(2×0,75)+(4×AWG24))
Part No.	111738
BOSCH REXROTH designation*	REH0804

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Indramat* system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET
Number of conductors/cross-section	(4G1,5+(2×0,75)+(4×AWG24))

Technical data sheet

PUR servo cables · C-track compatible · shielded

Number of conductors	10
Cross-section, metric	1.5 mm ²
Cross-section AWG	AWG 16
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	13 mm
Surface	matte
Weight	25.2 kg/100 m
Cu-Index	15 kg/100 m

Construction Element 1

Element construction	4G1,5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 superfine strand
Conductor marking	black • with white number print • green/yellow
Conductor insulation	PP

Construction Element 2

Element construction	(2×0,75)
Conductor	CU-wire bare
Conductor category	DIN EN 60228, class 6 superfine strand
Conductor marking	black • with white number print
Conductor insulation	PP
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised
Element shielding	tinned copper wires Braid shield optical cover approx. 85%

Construction Element 3

Element construction	(4×AWG24)
Conductor construction	AWG 24
Conductor	CU-wire bare AWG conductor
Conductor marking	blue • white • yellow • orange
Conductor insulation	PP
Stranding	star quad stranding conductors twisted without mechanical stress

Technical data sheet

PUR servo cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together layer pitch optimised
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant low-adhesion abrasion resistant tough tear resistant hydrolysis-resistant microbe resistant rot-resistant Weather resistant ozone-resistant UV resistant (normal lighting conditions) service water-resistant salt water-resistant coolant-resistant lubricant-resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Halogen free Silicone-free

Technical data

Rated voltage	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Category	Cat.5e
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR servo cables · C-track compatible · shielded

Technical Data Element 2

Element construction	(2×0,75)
Insulation resistance at 20 °C	1000 MΩ×km
Conductor resistance	≤26 Ω/km

Technical Data Element 3

Element construction	(4×AWG24)
Insulation resistance 20 °C	1000 MΩ×km
Conductor resistance	≤91 Ω/km
Operating capacitance wire-shield	approx.50 pF/m
Impedance	nom.100 Ω

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 IEC 60332-1-2 UL VW1, FT1 UL 1581 UL 2556
Oil resistant according to	UL 1581 DIN EN 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 VDE 0472-815

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Bosch Rexroth Artikelbezeichnungen sind geschützte Warenzeichen der Bosch Gruppe
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET

Combined power supply cable for Bosch-Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C)PUR SE ET (4G2,5+(2×1,0)+(4×AWG24))
Part No.	111739
BOSCH REXROTH designation*	REH0805

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Indramat* system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET
Number of conductors/cross-section	(4G2,5+(2×1,0)+(4×AWG24))

Technical data sheet

PUR servo cables · C-track compatible · shielded

Number of conductors	10
Cross-section, metric	2.5 mm ²
Cross-section AWG	AWG 14
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	15.8 mm
Surface	matte
Weight	34.3 kg/100 m
Cu-Index	20.5 kg/100 m

Construction Element 1

Element construction	4G2,5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 superfine strand
Conductor marking	black • with white number print • green/yellow
Conductor insulation	PP

Construction Element 2

Element construction	(2×1,0)
Conductor	CU-wire bare
Conductor category	DIN EN 60228, class 6 superfine strand
Conductor marking	black • with white number print
Conductor insulation	PP
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised
Element shielding	tinned copper wires Braid shield optical cover approx. 85%

Construction Element 3

Element construction	(4×AWG24)
Conductor construction	AWG 24
Conductor	CU-wire bare AWG conductor
Conductor marking	blue • white • yellow • orange
Conductor insulation	PP
Stranding	star quad stranding conductors twisted without mechanical stress

Technical data sheet

PUR servo cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together layer pitch optimised
Overall wrapping	Non-woven material
Inner jacket	TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant low-adhesion abrasion resistant tough tear resistant hydrolysis-resistant microbe resistant rot-resistant Weather resistant ozone-resistant UV resistant (normal lighting conditions) service water-resistant salt water-resistant coolant-resistant lubricant-resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Halogen free Silicone-free

Technical data

Rated voltage	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Category	Cat.5e
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR servo cables · C-track compatible · shielded

Technical Data Element 2

Element construction	(2×1,0)
Insulation resistance at 20 °C	1000 MΩ×km
Conductor resistance	≤19.5 Ω/km

Technical Data Element 3

Element construction	(4×AWG24)
Insulation resistance 20 °C	1000 MΩ×km
Conductor resistance	≤91 Ω/km
Operating capacitance wire-shield	approx.50 pF/m
Impedance	nom.100 Ω

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 IEC 60332-1-2 UL VW1, FT1 UL 1581 UL 2556
Oil resistant according to	UL 1581 DIN EN 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 VDE 0472-815

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Bosch Rexroth Artikelbezeichnungen sind geschützte Warenzeichen der Bosch Gruppe
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET

Combined power supply cable for Siemens and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE ET (4G0,38+(2×0,38)+(4×0,2))
Part No.	111736
SIEMENS designation*	1BE04

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET
Number of conductors/cross-section	(4G0,38+(2×0,38)+(4×0,2))
Number of conductors	10

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	9.7 mm
Surface	matte
Weight	12.8 kg/100 m
Cu-Index	7.5 kg/100 m

Construction Element 1

Element construction	4G0,38
Conductor construction	AWG 22
Conductor	CU-wire tin-plated AWG conductor
Conductor category	IEC 60228, Class 6 superfine strand
Conductor marking	brown U/L1/C/L+ · black V/L2 · grey W/L3/D/L- · yellow/green
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×0,38)
Conductor construction	AWG 22
Conductor	CU-wire tin-plated AWG conductor
Conductor category	DIN EN 60228, class 6 superfine strand
Conductor marking	black · white
Conductor insulation	PP
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	tinned copper wires Braid shield optical cover approx. 85%

Construction Element 3

Element construction	(4×0,2)
Conductor construction	AWG 24
Conductor	CU-wire bare AWG conductor
Conductor marking	yellow · blue · green · pink

mechanical stress

Technical data sheet

PUR servo cables · C-track compatible · shielded

Element shielding	Aluminium laminate Foil shield tinned copper wires Braid shield optical cover approx. 85%
-------------------	---

Overall construction

Overall stranding	elements stranded together layer pitch optimised
Overall wrapping	Non-woven material
Inner jacket	Special TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant low-adhesion abrasion resistant tough tear resistant hydrolysis-resistant microbe resistant rot-resistant Weather resistant ozone-resistant UV resistant (normal lighting conditions) service water-resistant salt water-resistant coolant-resistant lubricant-resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Halogen free Silicone-free

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V
Temperature range moving	-40 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Category	Cat.5e
Bending cycles	≥10 Mio

Technical data sheet

PUR servo cables · C-track compatible · shielded

Technical Data Element 1

Element construction	4G0,38
Insulation resistance at 20 °C	≥1000 MΩ×km
Conductor resistance	≤59 Ω/km

Technical Data Element 2

Element construction	(2×0,38)
Insulation resistance at 20 °C	1000 MΩ×km
Conductor resistance	≤59 Ω/km

Technical Data Element 3

Element construction	(4×0,2)
Insulation resistance 20 °C	1000 MΩ×km
Conductor resistance	≤98 Ω/km
Operating capacitance wire-shield	approx.50 pF/m
Impedance	nom.100 Ω

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 IEC 60332-1-2 UL VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404 VDE 0472 part 803 A/B HD 22.10
Halogen free according to	IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET

Combined power supply cable for Siemens and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE ET (4G0,75+(2×0,5)+(4×0,2))
Part No.	111737
SIEMENS designation*	1BE08

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET
Number of conductors/cross-section	(4G0,75+(2×0,5)+(4×0,2))
Number of conductors	10

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	10.5 mm
Surface	matte
Weight	15.8 kg/100 m
Cu-Index	9.8 kg/100 m

Construction Element 1

Element construction	4G0,75
Conductor construction	AWG 19
Conductor	CU-wire tin-plated AWG conductor
Conductor category	IEC 60228, Class 6 superfine strand
Conductor marking	brown U/L1/C/L+ · black V/L2 · grey W/L3/D/L- · yellow/green
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×0,5)
Conductor construction	AWG 21
Conductor	CU-wire tin-plated AWG conductor
Conductor category	DIN EN 60228, class 6 superfine strand
Conductor marking	black · white
Conductor insulation	PP
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	tinned copper wires Braid shield optical cover approx. 85%

Construction Element 3

Element construction	(4×0,2)
Conductor construction	AWG 24
Conductor	CU-wire bare AWG conductor
Conductor marking	yellow · blue · green · pink

mechanical stress

Technical data sheet

PUR servo cables · C-track compatible · shielded

Element shielding	Aluminium laminate Foil shield tinned copper wires Braid shield optical cover approx. 85%
-------------------	---

Overall construction

Overall stranding	elements stranded together layer pitch optimised
Overall wrapping	Non-woven material
Inner jacket	Special TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant low-adhesion abrasion resistant tough tear resistant hydrolysis-resistant microbe resistant rot-resistant Weather resistant ozone-resistant UV resistant (normal lighting conditions) service water-resistant salt water-resistant coolant-resistant lubricant-resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Halogen free Silicone-free

Technical data

Rated voltage	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Category	Cat.5e
Bending cycles	≥10 Mio

Technical data sheet

PUR servo cables · C-track compatible · shielded

Technical Data Element 1

Element construction	4G0,75
Insulation resistance at 20 °C	≥1000 MΩ×km
Conductor resistance	≤27 Ω/km

Technical Data Element 2

Element construction	(2×0,5)
Insulation resistance at 20 °C	1000 MΩ×km
Conductor resistance	≤41 Ω/km

Technical Data Element 3

Element construction	(4×0,2)
Insulation resistance 20 °C	1000 MΩ×km
Conductor resistance	≤98 Ω/km
Operating capacitance wire-shield	approx.50 pF/m
Impedance	nom.100 Ω

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 IEC 60332-1-2 UL VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404 VDE 0472 part 803 A/B HD 22.10
Halogen free according to	IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Lenze and other systems

For highest requirements



Identification

Type SU+ M (C) PUR SE (4G6+(2×1,0)) 1kV

Part No. [111764](#)

Product version

Datasheet version 00

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G6+(2×1.0))
Number of conductors	6
Cross-section, metric	6 mm²

Technical data sheet

PVC servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	16.9 mm
Surface	adhesion-free, matte
Weight	47.7 kg/100 m
Cu-Index	31.6 kg/100 m

Construction Element 1

Element construction	4G6
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	brown · white
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free)

Technical data sheet

PVC servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G6
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.84 pF/m
Operating capacitance wire-shield	approx.151 pF/m

Technical Data Element 2

Element construction	(2×1)
Operating capacitance wire-wire	approx.93 pF/m
Operating capacitance wire-shield	approx.167 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

in conformity with the EU Low Voltage Directive 2014/

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Lenze and other systems

For highest requirements



Identification

Type SU+ M (C) PUR SE (4G10+(2×1,0)) 1kV
Part No. [111765](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G10+(2×1.0))
Number of conductors	6
Cross-section, metric	10 mm²

Technical data sheet

PVC servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	20.3 mm
Surface	adhesion-free, matte
Weight	71 kg/100 m
Cu-Index	51.3 kg/100 m

Construction Element 1

Element construction	4G10
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	brown · white
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free)

Technical data sheet

PVC servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G10
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.81 pF/m
Operating capacitance wire-shield	approx.146 pF/m

Technical Data Element 2

Element construction	(2×1)
Operating capacitance wire-wire	approx.93 pF/m
Operating capacitance wire-shield	approx.167 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

in conformity with the EU Low Voltage Directive 2014/

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G10+(2×1,0)+(2×1,5))
Part No.	111762.1000
BOSCH REXROTH designation*	REL0110

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For IndraDyn S MS2N* system and similar• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G10+(2×1.0)+(2×1.5))
Number of conductors	8
Cross-section, metric	10 mm ²
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	21.9 mm
Outer Ø	0.874 inch
Surface	adhesion-free, matte
Weight	83.7 kg/100 m
Weight	562.43 Lbs/Mft
Cu-Index	57 kg/100 m
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G10
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	TPE

Construction Element 2

Element construction	(2×1,0)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Construction Element 3

Element construction	(2×1.5)
Conductor	CU-wire bare

VDE 0295

print

Technical data sheet

PUR servo cables · C-track compatible · shielded

Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical Data Element 1

Element construction	4G10
Insulation resistance at 20 °C	$\geq 1000 \text{ M}\Omega \times \text{km}$
Operating capacitance wire-wire	approx. 81 pF/m
Operating capacitance wire-shield	approx. 146 pF/m

Technical data sheet

PUR servo cables · C-track compatible · shielded

Operating capacitance wire-shield	approx.243 pF/m
-----------------------------------	-----------------

Technical Data Element 3

Element construction	(2×1.5)
Insulation resistance 20 °C	1000 MΩ×km
Operating capacitance wire-wire	approx.157 pF/m
Operating capacitance wire-shield	approx.283 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1-2 UL VW1, FT1 UL 1581 UL 2556
Oil resistant according to	UL 4d100C DIN EN 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN EN 60754-1 DIN 0472 Part 815

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Lenze and other systems

For highest requirements



Identification

Type SU+ M (C) PUR SE (4G4+(2×1,0)) 1kV

Part No. [111763](#)

Product version

Datasheet version 00

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G4+(2×1.0))
Number of conductors	6
Cross-section, metric	4 mm²

Technical data sheet

PVC servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	14.8 mm
Surface	adhesion-free, matte
Weight	37.3 kg/100 m
Cu-Index	23.5 kg/100 m

Construction Element 1

Element construction	4G4
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	brown · white
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free)

Technical data sheet

PVC servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G4
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.78 pF/m
Operating capacitance wire-shield	approx.140 pF/m

Technical Data Element 2

Element construction	(2×1)
Operating capacitance wire-wire	approx.93 pF/m
Operating capacitance wire-shield	approx.167 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

in conformity with the EU Low Voltage Directive 2014/

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G10+(2×1,0)+(2×1,5))
Part No.	111762
INK Description*	INK 0605

Product version

Datasheet version	02
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Indramat* system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G10+(2×1.0)+(2×1.5))
Number of conductors	8
Cross-section, metric	10 mm ²
Cross-section AWG	AWG 8
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	22.3 mm
Outer Ø	0.878 inch
Surface	adhesion-free, matte
Weight	76.5 kg/100 m
Weight	513 Lbs/Mft
Cu-Index	57 kg/100 m
Cu-Index	376 Lbs/Mft
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G10
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	(2×10)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires Aluminium laminate Foil shield optical cover approx. 85%

Technical data sheet

PVC servo cables · C-track compatible · shielded

Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires Aluminium laminate Foil shield optical cover approx. 85%

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical data sheet

PVC servo cables · C-track compatible · shielded

Operating capacitance wire-shield	approx.146 pF/m
-----------------------------------	-----------------

Technical Data Element 2

Element construction	(2×10)
Operating capacitance wire-wire	approx.135 pF/m
Operating capacitance wire-shield	approx.143 pF/m

Technical Data Element 3

Element construction	(2×1.5)
Operating capacitance wire-wire	approx.157 pF/m
Operating capacitance wire-shield	approx.283 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 UL 1581 part 1080 VW-1 UL FT1 UL VW-1
Oil resistant according to	Oil Res I DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET

Combined power supply cable for Siemens and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE ET (4G1,5+(2×1,5)+(4×0,2))
Part No.	111791
SIEMENS designation*	1BE11

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET
Number of conductors/cross-section	(4G1,5+(2×1,5)+(4×0,2))
Number of conductors	10

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	12.7 mm
Surface	matte
Weight	25.8 kg/100 m
Cu-Index	18 kg/100 m

Construction Element 1

Element construction	4G1,5
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 superfine strand
Conductor marking	brown U/L1/C/L+ · black V/L2 · grey W/L3/D/L- · yellow/green
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1,5)
Conductor	CU-wire tin-plated
Conductor category	DIN EN 60228, class 6 superfine strand
Conductor marking	black/turquoise · white/turquoise
Conductor insulation	PP
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	tinned copper wires Braid shield optical cover approx. 85%

Construction Element 3

Element construction	(4×0,2)
Conductor construction	AWG 24
Conductor	CU-wire bare AWG conductor
Conductor marking	yellow · blue · green · pink
Conductor insulation	PP
Stranding	star quad stranding conductors twisted without mechanical stress layer pitch optimised

Technical data sheet

PUR servo cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together layer pitch optimised
Overall wrapping	Non-woven material
Inner jacket	Special TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant low-adhesion abrasion resistant tough tear resistant hydrolysis-resistant microbe resistant rot-resistant Weather resistant ozone-resistant UV resistant (normal lighting conditions) service water-resistant salt water-resistant coolant-resistant lubricant-resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Halogen free Silicone-free

Technical data

Rated voltage	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Category	Cat.5e
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR servo cables · C-track compatible · shielded

Technical Data Element 2

Element construction	(2×1,5)
Insulation resistance at 20 °C	1000 MΩ×km
Conductor resistance	≤13.7 Ω/km

Technical Data Element 3

Element construction	(4×0,2)
Insulation resistance 20 °C	1000 MΩ×km
Conductor resistance	≤98 Ω/km
Operating capacitance wire-shield	approx.50 pF/m
Impedance	nom.100 Ω

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 IEC 60332-1-2 UL VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404 VDE 0472 part 803 A/B HD 22.10
Halogen free according to	IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for Bosch-Rexroth and other systems

For highest requirements in drive technology



Identification

Type	SU+ (C) PUR FB (2×0,5+4×2×0,25) 300V
Part No.	111780
INK Description*	INK-0448*

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×0.5+4×2×0.25)
Number of conductors	10
Cross-section, metric	0.5 mm ²

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	8.5 mm
Outer Ø	0.335 inch
Surface	adhesion-free, matte
Weight	10 kg/100 m
Weight	67 Lbs/Mft
Cu-Index	5.9 kg/100 m
Cu-Index	40 Lbs/Mft

Construction Element 1

Element construction	2×0.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	white • brown
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	4×2×0.25
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	brown • green • grey • pink • red • black • violet • blue
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress

Overall construction

Overall stranding	layered construction around core elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free
------------------------	--

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	2×0.5
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.57 pF/m
Operating capacitance wire-shield	approx.103 pF/m

Technical Data Element 2

Element construction	4×2×0.25
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.57 pF/m
Operating capacitance wire-shield	approx.103 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 20233
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2

Technical data sheet
PUR feedback cables · C-track compatible · shielded

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet

PUR feedback cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for Bosch-Rexroth and other systems

For highest requirements in drive technology



Identification

Type	SU+ (C) PUR FB (2×0,5+2×2×0,25) 300V
Part No.	111781
INK Description*	INK-0750*

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Incremental encoder cable, termination cable for tachometer, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(2×0.5+2×2×0.25)
Number of conductors	6
Cross-section, metric	2.5 mm²

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	7.6 mm
Outer Ø	0.299 inch
Surface	adhesion-free, matte
Weight	9 kg/100 m
Weight	60 Lbs/Mft
Cu-Index	4.2 kg/100 m
Cu-Index	28 Lbs/Mft

Construction Element 1

Element construction	2×0,5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	white • brown
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	2×2×0,25
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	grey • pink • red • black
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant

Technical data sheet

PUR feedback cables · C-track compatible · shielded

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	2×0,5
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.53 pF/m
Operating capacitance wire-shield	approx.95 pF/m

Technical Data Element 2

Element construction	2×2×0,25
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.61 pF/m
Operating capacitance wire-shield	approx.110 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 20233
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Halogen free according to	DIN EN 60754-1 IEC 60754-1

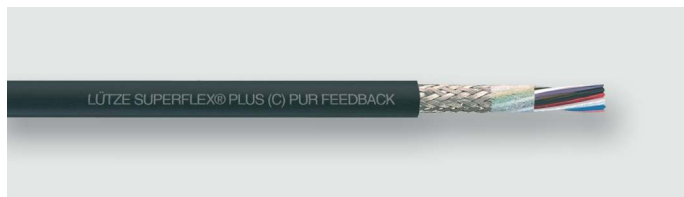
General

in conformity with the EU Low Voltage Directive 2014/

Technical data sheet

PUR feedback cables · C-track compatible

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for Heidenhain and other systems
For highest requirements in drive technology



Identification

Type SU+ (C) PUR FB (4×0,5+4×2×0,14)
Part No. [111777](#)

Product version

Datasheet version 02

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor• Through full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS (C) PUR FEEDBACK
Number of conductors/cross-section	(4×0.5+4×2×0.14)
Number of conductors	12
Cross-section, metric	0.5 mm ²
Jacket material	PUR

Technical data sheet

PUR feedback cables · C-track compatible

Jacket color	black similar to RAL 9005
Outer Ø	8.6 mm
Surface	adhesion-free, matte
Weight	9.2 kg/100 m
Cu-Index	4.8 kg/100 m

Construction Element 1

Element construction	4×0.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	white • blue • brown/green • white/green
Conductor insulation	Special TPE
Stranding	layer pitch optimised conductors twisted without mechanical stress

Construction Element 2

Element construction	4×2×0.14
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	yellow • violet • grey • pink • brown • green • red • black
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free

Technical data sheet

PUR feedback cables · C-track compatible

Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4×0.5
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.61 pF/m
Operating capacitance wire-shield	approx.110 pF/m

Technical Data Element 2

Element construction	4×2×0.14
Insulation resistance at 20 °C	≥200 MΩ×km
Operating capacitance wire-wire	approx.54 pF/m
Operating capacitance wire-shield	approx.98 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 20233
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404 UL 1581
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Technical data sheet · LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for SEW and other systems
For highest requirements in drive technology



PUR feedback cables · C-track compatible

Identification	Type Part-No.	SU+(C)P SE(5×2×0,25)UL 300V GN 111772
Use/Application/Properties		
Application	<ul style="list-style-type: none">• Incremental encoder cable, connection cable for tachometer, brake sensor, speed sensor• Due to Full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering	
Properties	<ul style="list-style-type: none">• High active and passive interference resistance (EMC)• Braided shield optimised for continuous flexible use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weatherproof, ozone and UV resistant (normal lighting conditions)• Good ruggedness and salt water resistance• Excellent coolant and lubricant resistance• Resistant to most oils, greases, alcohol-free benzines and kerosene• Silicone free• RoHS compliant	
Construction		
Description	SUPERFLEX+ (C) PUR FEEDBACK SEW	

Technical data sheet · LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for SEW and other systems

For highest requirements in drive technology

Number of conductors/cross-section	(5×2×0.25)
Jacket material	PUR
Jacket color	green RAL 6018
Outer Ø	8.8 mm
Surface	adhesion-free matt
Weight	9 kg/100 m
Cu-Index	4.9 kg/100 m

Element 1

Element construction	(5×2×0,25)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Klasse 6
Conductor marking	white brown green yellow grey pink blue red black violet
Conductor insulation	Special TPE

overall construction

Overall stranding	stranded pairs Conductors twisted without mechanical stress schlaglängenoptimiert
Overall wrapping	Non-woven material
Overall shield	Braid shield Tinned copper wires optical cover approx. 85%
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data sheet · LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK

Feedback cables for SEW and other systems

For highest requirements in drive technology

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-50 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D

Element 1

Element construction	(5×2×0,25)
Insulation resistance at 20°C	200.0 MΩ×km

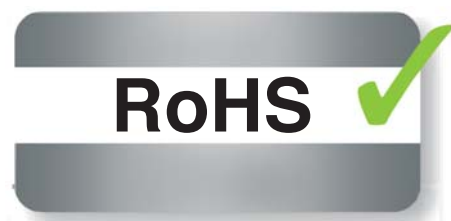
Approvals/Standards

Approvals	cURus
UL style	AWM 20233
Conformity	CE RoHS
Burning behavior	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part 1080 VW-1 UL FT1
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
------	--

Logo



Technical data sheet · LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for SEW and other systems
For highest requirements in drive technology



Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G6+(2×1,0)+(2×1,5))
Part No.	111998.1000
BOSCH REXROTH designation*	REL0109

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For IndraDyn S MS2N* system and similar• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G6+(2×1.0)+(2×1.5))
Number of conductors	8
Cross-section, metric	6 mm ²
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	18 mm
Outer Ø	0.716 inch
Surface	adhesion-free, matte
Weight	55.6 kg/100 m
Weight	373.61 Lbs/Mft
Cu-Index	38.5 kg/100 m
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G6
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	TPE

Construction Element 2

Element construction	(2×1,0)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Construction Element 3

Element construction	(2×1.5)
Conductor	CU-wire bare
	VDE 0295
	print

Technical data sheet

PUR servo cables · C-track compatible · shielded

Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires optical cover approx. 85%

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G6
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.84 pF/m
Operating capacitance wire-shield	approx.151 pF/m

Technical data sheet

PUR servo cables · C-track compatible · shielded

Operating capacitance wire-shield	approx.143 pF/m
-----------------------------------	-----------------

Technical Data Element 3

Element construction	(2×1.5)
Insulation resistance 20 °C	1000 MΩ×km
Operating capacitance wire-wire	approx.157 pF/m
Operating capacitance wire-shield	approx.283 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH TSCA
Burning behavior according to	VDE 0482-332-1-2 DIN EN 60332-1-2 IEC 60332-1-2 UL VW1, FT1 UL 1581 UL 2556
Oil resistant according to	UL 4d100C DIN EN 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN EN 60754-1 DIN 0472 Part 815

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Bosch Rexroth and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE (4G6+(2×1,0)+(2×1,5))
Part No.	111998
INK Description*	INK 0604

Product version

Datasheet version	02
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Indramat* system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
-------------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

Number of conductors/cross-section	(4G6+(2×1.0)+(2×1.5))
Number of conductors	8
Cross-section, metric	6 mm ²
Cross-section AWG	AWG 10
Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	18.4 mm
Outer Ø	0.724 inch
Surface	adhesion-free, matte
Weight	53 kg/100 m
Weight	355 Lbs/Mft
Cu-Index	38.5 kg/100 m
Cu-Index	245 Lbs/Mft
Cable construction	Construction with two control pairs (digit print 5, 6 and 7, 8)

Construction Element 1

Element construction	4G6
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print • yellow/green
Conductor insulation	Special TPE

Construction Element 2

Element construction	(2×10)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield tinned copper wires Aluminium laminate Foil shield optical cover approx. 85%

Technical data sheet

PVC servo cables · C-track compatible · shielded

Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 Class 6
Conductor marking	black • with white number print
Conductor insulation	Special TPE
Stranding	conductors stranded in pairs layer pitch optimised conductors twisted without mechanical stress
Wrapping	Foil taping
Element shielding	Braid shield galvanised steel wire Aluminium laminate Foil shield optical cover approx. 85%

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 10 \text{ Mio}$
Speed	$\leq 5 \text{ m/s}$
Acceleration	$\leq 50 \text{ m/s}^2$
Torsion	$\pm 30^\circ/\text{m}$

Technical data sheet

PVC servo cables · C-track compatible · shielded

Operating capacitance wire-shield	approx.151 pF/m
-----------------------------------	-----------------

Technical Data Element 2

Element construction	(2×10)
Operating capacitance wire-wire	approx.135 pF/m
Operating capacitance wire-shield	approx.143 pF/m

Technical Data Element 3

Element construction	(2×1.5)
Operating capacitance wire-wire	approx.157 pF/m
Operating capacitance wire-shield	approx.283 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 UL 1581 part 1080 VW-1 UL FT1 UL VW-1
Oil resistant according to	Oil Res I DIN EN 60811-404
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MS2N motors. Bosch Rexroth and REL article designations are registered trademarks of the Bosch Group.
------	--

Technical data sheet

PUR servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
High Flexing Motor Cable for Siemens and other systems
For highest requirements



Identification

Type SU+ M (C) PUR SE (4G1,0) 90°C
Part No. [111879.1000](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free |

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0,6/1 kV
Number of conductors/cross-section	(4G1,0)
Number of conductors	4
Cross-section, metric	1 mm ²
Cross-section AWG	AWG 18

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	Special PUR
Jacket color	orange similar to RAL 2003
Outer Ø	7.4 mm
Outer Ø	0.291 inch
Surface	adhesion-free, matte
Weight	10.8 kg/100 m
Weight	72.4 Lbs/Mft
Cu-Index	6.5 kg/100 m
Cu-Index	43 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G1,0)
Conductor	CU-wire bare
Conductor category	DIN EN 60228, Class 6 Superfinely stranded DIN VDE 0295
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- • green/yellow
Conductor insulation	PP
Stranding	Conductors twisted without mechanical stress Layer pitch optimised

Overall construction

Overall stranding	Conductors layered construction Conductors twisted without mechanical stress Layer pitch optimised
Overall shield	Braid shield Optical cover approx. 85 %

Technical data

Rated voltage U_0/U	1000
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	5 m/s
Acceleration	50 m/s ²
Torsion	± 30°/m

Technical data sheet

PUR servo cables · C-track compatible · shielded

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1-1 to 1-3 UL 1581 VW-1 UL FT1
Oil resistant according to	UL 4d100C DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * Cables for MOTION-CONNECT 800PLUS. Siemens, MOTION-CONNECT 800PLUS and Siemens article designations are registered trademarks of Siemens AG.
------	--

Technical data sheet

PVC servo cables · C-track compatible · shielded

LUTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV

Supply line for Lenze and other systems

For highest requirements



Identification

Type SU+ M (C) PUR SE (4G2,5+(2×0,5)) 1kV

Part No. [111997](#)

Product version

Datasheet version 00

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Number of conductors/cross-section	(4G2.5+(2×0.5))
Number of conductors	6
Cross-section, metric	2.5 mm²

Technical data sheet

PVC servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	12.8 mm
Surface	adhesion-free, matte
Weight	27.1 kg/100 m
Cu-Index	15.3 kg/100 m

Construction Element 1

Element construction	4G2.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black · with white number print · U/L1/C/L+ · V/L2 · W/L3/D/L- · yellow/green
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×0.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	brown · white
Conductor insulation	Special TPE
Stranding	conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	Braid shield

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant grease-resistant petrol-resistant (alcohol-free)

Technical data sheet

PVC servo cables · C-track compatible · shielded

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Element construction	4G2.5
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	approx.71 pF/m
Operating capacitance wire-shield	approx.128 pF/m

Technical Data Element 2

Element construction	(2×0.5)
Operating capacitance wire-wire	approx.81 pF/m
Operating capacitance wire-shield	approx.146 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1
Oil resistant according to	DIN EN 60811-404
Halogen free according to	IEC 60754-1 DIN EN 60754-1

General

in conformity with the EU Low Voltage Directive 2014/

Technical data sheet

PUR servo cables · C-track compatible · shielded

SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET

Combined power supply cable for Siemens and other systems

For highest requirements



Identification

Type	SU+ M (C) PUR SE ET (4G2,5+(2×1,5)+(4×0,2))
Part No.	111792
SIEMENS designation*	1BE21

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Through optimized cable construction optimally suited for continuous flexing applications in C-tracks• Very good resistance against aggressive coolants and lubricants• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Braided shield optimised for continuous flexing use• Very good alternating bending strength• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Industrial and salt water resistant• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SUPERFLEX® PLUS M (C) PUR SERVO ETHERNET
Number of conductors/cross-section	(4G2,5+(2×1,5)+(4×0,2))
Number of conductors	10

Technical data sheet

PUR servo cables · C-track compatible · shielded

Jacket material	PUR
Jacket color	orange similar to RAL 2003
Outer Ø	13.7 mm
Surface	matte
Weight	30.4 kg/100 m
Cu-Index	21.5 kg/100 m

Construction Element 1

Element construction	4G2,5
Conductor	CU-wire tin-plated
Conductor category	IEC 60228, Class 6 superfine strand
Conductor marking	brown U/L1/C/L+ · black V/L2 · grey W/L3/D/L- · yellow/green
Conductor insulation	PP
Stranding	conductors twisted without mechanical stress layer pitch optimised

Construction Element 2

Element construction	(2×1,5)
Conductor	CU-wire tin-plated
Conductor category	DIN EN 60228, class 6 superfine strand
Conductor marking	black/turquoise · white/turquoise
Conductor insulation	PP
Stranding	conductors stranded in pairs conductors twisted without mechanical stress layer pitch optimised
Wrapping	Foil taping
Element shielding	tinned copper wires Braid shield optical cover approx. 85%

Construction Element 3

Element construction	(4×0,2)
Conductor construction	AWG 24
Conductor	CU-wire bare AWG conductor
Conductor marking	yellow · blue · green · pink
Conductor insulation	PP
Stranding	star quad stranding conductors twisted without mechanical stress layer pitch optimised

Technical data sheet

PUR servo cables · C-track compatible · shielded

Overall construction

Overall stranding	elements stranded together layer pitch optimised
Overall wrapping	Non-woven material
Inner jacket	Special TPE
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant low-adhesion abrasion resistant tough tear resistant hydrolysis-resistant microbe resistant rot-resistant Weather resistant ozone-resistant UV resistant (normal lighting conditions) service water-resistant salt water-resistant coolant-resistant lubricant-resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Halogen free Silicone-free

Technical data

Rated voltage	1000 V
Test voltage type	AC 3000 V
Temperature range moving	-40 °C ... +90 °C
Temperature range fixed	-40 °C ... +90 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Category	Cat.5e
Bending cycles	≥10 Mio
Speed	≤5 m/s
Acceleration	≤50 m/s ²
Torsion	± 30°/m

Technical Data Element 1

Technical data sheet

PUR servo cables · C-track compatible · shielded

Technical Data Element 2

Element construction	(2×1,5)
Insulation resistance at 20 °C	1000 MΩ×km
Conductor resistance	≤13.7 Ω/km

Technical Data Element 3

Element construction	(4×0,2)
Insulation resistance 20 °C	1000 MΩ×km
Conductor resistance	≤98 Ω/km
Operating capacitance wire-shield	approx.50 pF/m
Impedance	nom.100 Ω

Certifications/Standards

Certifications	cURus
UL style	AWM 21209
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 IEC 60332-1-2 UL VW-1 UL FT1
Oil resistant according to	UL 1581 DIN EN 60811-404 VDE 0472 part 803 A/B HD 22.10
Halogen free according to	IEC 60754-1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G6) 1kV
Part No.	116404
SIEMENS designation*	1BB41

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Siemens 6FX5008* standard system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Flexible design for easy installation• Suitable for static laying and slight movement of machine components (not C-track)• Low capacitance for high dielectric strength for long cable lengths from inverter to motor• In dry and damp rooms• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• Low capacitance for high dielectric strength• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Orange RAL 2003 per DESINA• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G6)
Number of conductors	4
Cross-section, metric	6 mm ²

Technical data sheet

PVC servo cables · shielded

Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	13.2 mm
Outer Ø	0.52 inch
Surface	adhesion-free, matte
Weight	38 kg/100 m
Weight	255 Lbs/Mft
Cu-Index	28 kg/100 m
Cu-Index	188 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G6)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • green/yellow
Conductor insulation	TPM/PP

Overall construction

Overall stranding	layered construction
Overall wrapping	Foil taping over the cable core Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing Silicone-free Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-25 °C ... +80 °C

Technical data sheet

PVC servo cables · shielded

Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.120 pF/m
Operating capacitance wire-shield	approx.210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G1,5+(2×1,5)) 1kV
Part No.	116415
SIEMENS designation*	1BA11

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Siemens 6FX5008* standard system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Flexible design for easy installation• Suitable for static laying and slight movement of machine components (not C-track)• Low capacitance for high dielectric strength for long cable lengths from inverter to motor• In dry and damp rooms• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• Low capacitance for high dielectric strength• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Orange RAL 2003 per DESINA• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G1.5+(2×1.5))
Number of conductors	6
Cross-section, metric	1.5 mm ²

Technical data sheet

PVC servo cables · shielded

Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	11.6 mm
Outer Ø	0.457 inch
Surface	adhesion-free, matte
Weight	24.8 kg/100 m
Weight	167 Lbs/Mft
Cu-Index	15 kg/100 m
Cu-Index	104 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G1.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • green/yellow
Conductor insulation	TPM/PP

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • white
Stranding	conductors stranded in pairs
Element shielding	Braid shield optical cover approx. 85% tinned copper wires

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Foil taping over the cable core Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing

Technical data sheet

PVC servo cables · shielded

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-25 °C ... +80 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	4G1.5
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.80 pF/m
Operating capacitance wire-shield	approx.120 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.140 pF/m
Operating capacitance wire-shield	approx.210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G4) 1kV
Part No.	116403
SIEMENS designation*	1BB31

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Siemens 6FX5008* standard system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Flexible design for easy installation• Suitable for static laying and slight movement of machine components (not C-track)• Low capacitance for high dielectric strength for long cable lengths from inverter to motor• In dry and damp rooms• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• Low capacitance for high dielectric strength• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Orange RAL 2003 per DESINA• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G4)
Number of conductors	4
Cross-section, metric	4 mm ²

Technical data sheet

PVC servo cables · shielded

Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	11.5 mm
Outer Ø	0.453 inch
Surface	adhesion-free, matte
Weight	31.2 kg/100 m
Weight	210 Lbs/Mft
Cu-Index	19.4 kg/100 m
Cu-Index	131 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G4)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • green/yellow
Conductor insulation	TPM/PP

Overall construction

Overall stranding	layered construction
Overall wrapping	Foil taping over the cable core Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing Silicone-free Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-25 °C ... +80 °C

Technical data sheet

PVC servo cables · shielded

Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.115 pF/m
Operating capacitance wire-shield	approx.200 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G1,5) 1kV
Part No.	116401
SIEMENS designation*	1BB11

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Siemens 6FX5008* standard system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Flexible design for easy installation• Suitable for static laying and slight movement of machine components (not C-track)• Low capacitance for high dielectric strength for long cable lengths from inverter to motor• In dry and damp rooms• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• Low capacitance for high dielectric strength• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Orange RAL 2003 per DESINA• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G1.5)
Number of conductors	4
Cross-section, metric	1.5 mm ²

Technical data sheet

PVC servo cables · shielded

Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	8.4 mm
Outer Ø	0.331 inch
Surface	adhesion-free, matte
Weight	13.1 kg/100 m
Weight	88 Lbs/Mft
Cu-Index	8 kg/100 m
Cu-Index	59 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • green/yellow
Conductor insulation	TPM/PP

Overall construction

Overall stranding	layered construction
Overall wrapping	Foil taping over the cable core Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing Silicone-free Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-25 °C ... +80 °C

Technical data sheet

PVC servo cables · shielded

Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.80 pF/m
Operating capacitance wire-shield	approx.140 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G2,5) 1kV
Part No.	116402
SIEMENS designation*	1BB21

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Siemens 6FX5008* standard system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Flexible design for easy installation• Suitable for static laying and slight movement of machine components (not C-track)• Low capacitance for high dielectric strength for long cable lengths from inverter to motor• In dry and damp rooms• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• Low capacitance for high dielectric strength• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Orange RAL 2003 per DESINA• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G2.5)
Number of conductors	4
Cross-section, metric	2.5 mm ²

Technical data sheet

PVC servo cables · shielded

Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	10.6 mm
Outer Ø	0.417 inch
Surface	adhesion-free, matte
Weight	21.9 kg/100 m
Weight	147 Lbs/Mft
Cu-Index	13 kg/100 m
Cu-Index	8.9 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G2.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • green/yellow
Conductor insulation	TPM/PP

Overall construction

Overall stranding	layered construction
Overall wrapping	Foil taping over the cable core Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing Silicone-free Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-25 °C ... +80 °C

Technical data sheet

PVC servo cables · shielded

Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.105 pF/m
Operating capacitance wire-shield	approx.185 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G1,5+(2×1,5)) 0,6/1kV
Part No.	116427
SIEMENS designation*	1BA11

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Siemens 6FX5008* standard system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Flexible design for easy installation• Suitable for static laying and slight movement of machine components (not C-track)• Low capacitance for high dielectric strength for long cable lengths from inverter to motor• In dry and damp rooms• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• Low capacitance for high dielectric strength• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Orange RAL 2003 per DESINA• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G1.5+(2×1.5))
Number of conductors	6
Cross-section AWG	AWG 16

Technical data sheet

PVC servo cables · shielded

Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	10.2 mm
Outer Ø	0.401 inch
Surface	adhesion-free, matte
Weight	17.8 kg/100 m
Weight	119.26 Lbs/Mft
Cu-Index	11.5 kg/100 m
Cu-Index	77.05 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G1.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • green/yellow
Conductor insulation	TPE

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • white
Conductor insulation	TPE
Stranding	conductors stranded in pairs
Element shielding	Braid shield optical cover approx. 85% tinned copper wires

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Foil taping over the cable core Non-woven material
Overall shield	Braid shield tinned copper wires %

Technical data sheet

PVC servo cables · shielded

Jacket characteristics	Flame-retardant self-extinguishing Silicone-free Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-20 °C ... +80 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	2.5×D

Technical Data Element 1

Element construction	4G1.5
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	max.73 pF/m
Operating capacitance wire-shield	max.150 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	≥1000 MΩ×km
Conductor resistance	≤15 Ω/km
Operating capacitance wire-wire	max.125 pF/m
Operating capacitance wire-shield	max.230 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 UL Cable Flame Test (UL 1581) CSA FT 1
Oil resistant according to	ISO 6722

in conformity with the EU Low Voltage Directive 2014/

are registered trademarks of SIEMENS AG

Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G2,5) 0,6/1kV
Part No.	116425
SIEMENS designation*	1BB21

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Siemens 6FX5008* standard system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Flexible design for easy installation• Suitable for static laying and slight movement of machine components (not C-track)• Low capacitance for high dielectric strength for long cable lengths from inverter to motor• In dry and damp rooms• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• Low capacitance for high dielectric strength• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Orange RAL 2003 per DESINA• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G2.5)
Number of conductors	4
Cross-section, metric	2.5 mm ²

Technical data sheet

PVC servo cables · shielded

Cross-section AWG	AWG 14
Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	9.6 mm
Outer Ø	0.378 inch
Surface	adhesion-free, matte
Weight	17.4 kg/100 m
Weight	116.58 Lbs/Mft
Cu-Index	11 kg/100 m
Cu-Index	73.7 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G2.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • green/yellow
Conductor insulation	TPE

Overall construction

Overall stranding	layered construction
Overall wrapping	Foil taping over the cable core Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing Silicone-free Oil resistant

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-20 °C ... +80 °C
Minimum bending radius moving	10×D

Technical data sheet
PVC servo cables · shielded

Conductor resistance 13.3 Ω/km

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 UL Cable Flame Test (UL 1581) CSA FT 1
Oil resistant according to	ISO 6722

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G4) 0,6/1kV
Part No.	116426
SIEMENS designation*	1BB31

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Siemens 6FX5008* standard system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Flexible design for easy installation• Suitable for static laying and slight movement of machine components (not C-track)• Low capacitance for high dielectric strength for long cable lengths from inverter to motor• In dry and damp rooms• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• Low capacitance for high dielectric strength• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Orange RAL 2003 per DESINA• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G4)
Number of conductors	4
Cross-section, metric	4 mm ²

Technical data sheet

PVC servo cables · shielded

Cross-section AWG	AWG 12
Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	11 mm
Outer Ø	0.433 inch
Surface	adhesion-free, matte
Weight	25.1 kg/100 m
Weight	168.17 Lbs/Mft
Cu-Index	18.5 kg/100 m
Cu-Index	123.95 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G4)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • green/yellow
Conductor insulation	TPE

Overall construction

Overall stranding	layered construction
Overall wrapping	Foil taping over the cable core Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing Silicone-free Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-5 °C ... +80 °C

Technical data sheet

PVC servo cables · shielded

Technical Data Element 1

Element construction	(4G4)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	max.103 pF/m
Operating capacitance wire-shield	max.195 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 UL Cable Flame Test (UL 1581) CSA FT 1
Oil resistant according to	ISO 6722

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G2,5+(2×1,5)) 1kV
Part No.	116416
SIEMENS designation*	1BA21

Product version

Datasheet version	00
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Siemens 6FX5008* standard system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Flexible design for easy installation• Suitable for static laying and slight movement of machine components (not C-track)• Low capacitance for high dielectric strength for long cable lengths from inverter to motor• In dry and damp rooms• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• Low capacitance for high dielectric strength• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Orange RAL 2003 per DESINA• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G2.5+(2×1.5))
Number of conductors	6
Cross-section, metric	2.5 mm ²

Technical data sheet

PVC servo cables · shielded

Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	13 mm
Outer Ø	0.512 inch
Surface	adhesion-free, matte
Weight	31 kg/100 m
Weight	208 Lbs/Mft
Cu-Index	19.5 kg/100 m
Cu-Index	131 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G2.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • green/yellow
Conductor insulation	TPM/PP

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • white
Stranding	conductors stranded in pairs
Element shielding	Braid shield optical cover approx. 85% tinned copper wires

Overall construction

Overall stranding	elements stranded together
Overall wrapping	Foil taping over the cable core Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing

Technical data sheet

PVC servo cables · shielded

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-25 °C ... +80 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	4G2.5
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.105 pF/m
Operating capacitance wire-shield	approx.120 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-wire	approx.185 pF/m
Operating capacitance wire-shield	approx.210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part 1080 VW-1 UL FT1

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G1,5) 0,6/1kV
Part No.	116424
SIEMENS designation*	1BB11

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Siemens 6FX5008* standard system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Flexible design for easy installation• Suitable for static laying and slight movement of machine components (not C-track)• Low capacitance for high dielectric strength for long cable lengths from inverter to motor• In dry and damp rooms• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• Low capacitance for high dielectric strength• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Orange RAL 2003 per DESINA• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G1.5)
Number of conductors	4
Cross-section, metric	1.5 mm ²

Technical data sheet

PVC servo cables · shielded

Cross-section AWG	AWG 16
Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	8.1 mm
Outer Ø	0.319 inch
Surface	adhesion-free, matte
Weight	12.1 kg/100 m
Weight	81.07 Lbs/Mft
Cu-Index	7.1 kg/100 m
Cu-Index	47.57 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • green/yellow
Conductor insulation	TPE

Overall construction

Overall stranding	layered construction
Overall wrapping	Foil taping over the cable core Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing Silicone-free Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-5 °C ... +80 °C

Technical data sheet
PVC servo cables · shielded

Technical Data Element 1

Element construction	(4G1.5)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	max.85 pF/m
Operating capacitance wire-shield	max.155 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 UL Cable Flame Test (UL 1581) CSA FT 1
Oil resistant according to	ISO 6722

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G6) 0,6/1kV
Part No.	116429
SIEMENS designation*	1BB41

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Siemens 6FX5008* standard system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Flexible design for easy installation• Suitable for static laying and slight movement of machine components (not C-track)• Low capacitance for high dielectric strength for long cable lengths from inverter to motor• In dry and damp rooms• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• Low capacitance for high dielectric strength• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Orange RAL 2003 per DESINA• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G6)
Number of conductors	4
Cross-section, metric	6 mm ²

Technical data sheet

PVC servo cables · shielded

Cross-section AWG	AWG 10
Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	13.2 mm
Outer Ø	0.519 inch
Surface	adhesion-free, matte
Weight	38.3 kg/100 m
Weight	256.61 Lbs/Mft
Cu-Index	27.5 kg/100 m
Cu-Index	184.25 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G6)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • green/yellow
Conductor insulation	TPE

Overall construction

Overall stranding	layered construction
Overall wrapping	Foil taping over the cable core Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant self-extinguishing Silicone-free Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-5 °C ... +80 °C

Technical data sheet

PVC servo cables · shielded

Technical Data Element 1

Element construction	(4G6)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	max.110 pF/m
Operating capacitance wire-shield	max.210 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 UL Cable Flame Test (UL 1581) CSA FT 1
Oil resistant according to	ISO 6722

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG
------	--

Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G2,5+(2×1,5)) 0,6/1kV
Part No.	116428
SIEMENS designation*	1BA21

Product version

Datasheet version	01
-------------------	----

Use/Application/Properties

Application	<ul style="list-style-type: none">• For Siemens 6FX5008* standard system (and similar)• Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology• Flexible design for easy installation• Suitable for static laying and slight movement of machine components (not C-track)• Low capacitance for high dielectric strength for long cable lengths from inverter to motor• In dry and damp rooms• Especially for industrial environments in mechanical and system engineering
Properties	<ul style="list-style-type: none">• Low capacitance for high dielectric strength• High protection against electromagnetic interferences (EMI)• PVC Flame-retardant, self-extinguishing• Orange RAL 2003 per DESINA• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G2.5+(2×1.5))
Number of conductors	6

Technical data sheet

PVC servo cables · shielded

Cross-section AWG	AWG 14 AWG 16
Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	11.7 mm
Outer Ø	0.461 inch
Surface	adhesion-free, matte
Weight	24.9 kg/100 m
Weight	166.83 Lbs/Mft
Cu-Index	15.8 kg/100 m
Cu-Index	105.86 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G2.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • with white print • U/L1/C/L+ • V/L2 • W/L3/D/L- • green/yellow
Conductor insulation	TPE

Construction Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black • white
Conductor insulation	TPE
Stranding	conductors stranded in pairs
Element shielding	Braid shield optical cover approx. 85% tinned copper wires

Overall construction

Overall stranding	elements stranded together layer pitch optimised conductors twisted without mechanical stress
Overall wrapping	Foil taping over the cable core Non-woven material

Technical data sheet

PVC servo cables · shielded

Jacket characteristics	Flame-retardant self-extinguishing Silicone-free Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant
------------------------	--

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-20 °C ... +80 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	2.5×D

Technical Data Element 1

Element construction	4G2.5
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	max.80 pF/m
Operating capacitance wire-shield	max.155 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	≥1000 MΩ×km
Conductor resistance	≤9 Ω/km
Operating capacitance wire-wire	max.125 pF/m
Operating capacitance wire-shield	max.230 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 UL Cable Flame Test (UL 1581) CSA FT 1
Oil resistant according to	ISO 6722

in conformity with the EU Low Voltage Directive 2014/

are registered trademarks of SIEMENS AG

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: ezd@nt-rt.ru || сайт: <https://lutze.nt-rt.ru/>