

Шинные и сетевые кабели

Технические характеристики

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Bus Cables and Network Cables

Flexible and highly flexing BUS cables for data transfer in industrial BUS systems and networks. LÜTZE provides BUS and network cables for the most common systems worldwide and according to the industrial ETHERNET standards.

LÜTZE offers not just an extensive portfolio of bus cables and network cables, but also handles the complete assembly of all cables for you, with all variants of connectors.

We guarantee the compliance with the required specifications for all components manufactured by us.



Technical data sheet

PUR Bus cables · DeviceNet™ · shielded · C-track compatible

LÜTZE SUPERFLEX® DeviceNet™ (C) PUR

For highest requirements



Identification

Type SU BUS (C) PUR ((2×AWG18)+(2×AWG16))
Part No. [104198](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• For the wiring of industrial sensors, control devices, valves, and other equipment• DeviceNet™ is the leading BUS system for industry automation in the USA• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Silicone free |

Construction

Description	SUPERFLEX® DeviceNet™ (C) PUR
Number of conductors/cross-section	((2×AWG18)+(2×AWG16))
Number of conductors	4
Cross-section, metric	1 mm²
Cross-section AWG	AWG 16
Jacket material	PUR
Jacket color	violet similar to RAL 4001
Outer Ø	12.2 mm
Outer Ø	0.48 inch
Surface	adhesion-free, matte
Weight	19.5 kg/100 m
Weight	43 Lbs/Mft

Technical data sheet

PUR Bus cables · DeviceNet™ · shielded · C-track compatible

Cu-Index	9.4 kg/100 m
Cu-Index	20.7 Lbs/Mft

Construction Element 1

Element construction	(2×AWG18)
Conductor	CU-wire tin-plated
Conductor marking	white • blue
Conductor insulation	foamed polyolefin
Stranding	conductors stranded in pairs
Element shielding	Aluminium laminate Foil shield

Construction Element 2

Element construction	(2×AWG16)
Conductor	CU-wire tin-plated
Conductor marking	red • black
Conductor insulation	Polyolefin
Stranding	conductors stranded in pairs
Element shielding	Aluminium laminate Foil shield

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. 80 %
Jacket characteristics	Flame-retardant Oil resistant Silicone-free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature according to UL	75 °C
Temperature range moving	-20 °C ... +75 °C
Temperature range fixed	-40 °C ... +75 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	5×D
Bending cycles	≥1 Mio
Travel distance	≤3.5 m
Speed	3 m/s
Acceleration	3 m/s²

Technical data sheet

PUR Bus cables · DeviceNet™ · shielded · C-track compatible

Technical Data Element 1

Element construction	(2×AWG18)
Operating capacitance wire-wire	approx.40 pF/m
Impedance	nom.120 Ω

Technical Data Element 2

Element construction	(2×AWG16)
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Certifications/Standards

Certifications	cULus CMX
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 UL 1581 part VW-1 Flame Test UL FT1
Oil resistant according to	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
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Technical data sheet

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC

Cat. 7, Profinet Type B



Identification

Type	EL ET (C) PVC (4×(2×AWG23/7))St)C Cat7
Part No.	104110
Profinet Type	Type B

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • Suitable for static laying and slight movement of machine components (not C-track)
Properties	• High protection against electromagnetic interferences (EMI) • Silicone free • Flame-retardant

Construction

Ethernet Key	S/FTP
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(4×(2×AWG23/7)St)C
Number of conductors	8
Cross-section, metric	0.27 mm ²
Cross-section AWG	AWG 23
Jacket material	PVC
Jacket color	green similar to RAL 6018
Outer Ø	8.7 mm
Weight	10.1 kg/100 m
Cu-Index	5 kg/100 m

Technical data sheet

PVC Network cables · ETHERNET · shielded

Construction Element 1

Element construction	(2×AWG23/7)
Conductor construction	AWG 23/7
Conductor	AWG conductor CU-wire tin-plated
Conductor marking	Twisted pair • blue/white • orange/white • green/white • brown/white
Conductor insulation	foamed TPE
Stranding	conductors stranded in pairs conductors twisted without mechanical stress
Element shielding	Foil shield

Overall construction

Overall stranding	conductors layered construction
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %

Technical data

Rated voltage	300 V
Test voltage type	2000 V
Temperature according to UL	80 °C
Temperature range moving	-10 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	8×D
Minimum bending radius fixed	4×D
Category	Cat.7

Technical Data Element 1

Element construction	(2×AWG23/7)
Insulation resistance at 20 °C	5000 MΩ×km
Operating capacitance wire-wire	50 pF/m
Loop resistance	≤138.4 mΩ/m
Impedance	100 Ω
HF Characteristics according to	IEC 61156-5

Certifications/Standards

Certifications	cURus UL 758 - AWM
UL style	AWM 2095

Technical data sheet

PVC Network cables · ETHERNET · shielded

General

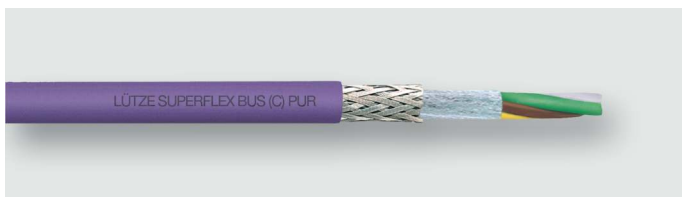
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
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Technical data sheet

PUR Bus cables · CAN-BUS · C-track compatible

LÜTZE SUPERFLEX® CAN-BUS (C) PUR

For highest requirements



Identification

Type SU CAN BUS (C) PUR (1×2×AWG24)
Part No. [104101](#)

Product version

Datasheet version 01

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems like CAN-BUS• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture• Compatible with all major drag chain brands• Compliant with NFPA 79 requirements |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Talc free and silicone free |

Construction

Description	SUPERFLEX® CAN-BUS (C) PUR
Number of conductors/cross-section	(1×2×AWG24/19)
Number of conductors	2
Cross-section, metric	0.25 mm²
Cross-section AWG	AWG 24
Jacket material	PUR
Jacket color	violet similar to RAL 4001
Outer Ø	6.5 mm
Outer Ø	0.256 inch
Weight	4.4 kg/100 m
Weight	32 Lbs/Mft
Cu-Index	2.4 kg/100 m
Cu-Index	17 Lbs/Mft

Technical data sheet

PUR Bus cables · CAN-BUS · C-track compatible

Construction Element 1

Conductor	AWG conductor CU-wire bare
Conductor marking	white • brown
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	stranded pairs
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 90 %
Jacket characteristics	Flame-retardant Oil resistant Halogen free Silicone-free

Technical data

Rated voltage	300 V
Test voltage type	2000 V
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +75 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	7.5×D
Bending cycles	≥1 Mio
Travel distance	≤4.5 m
Speed	3 m/s
Acceleration	3 m/s ²
Tensile strength moving	25 N
Tensile strength fixed	90 N

Technical Data Element 1

Insulation resistance at 20 °C	5000 MΩ×km
Conductor resistance	≤87.6 Ω/km
Operating capacitance wire-wire	approx.40 pF/m
Loop resistance	175.2 mΩ/m
Impedance	nom.120 Ω

Certifications/Standards

Certifications	CMX cULus
Conformity	CE RoHS REACH TSCA

Technical data sheet
PUR Bus cables · CAN-BUS · C-track compatible

Burning behavior according to	DIN EN 60332-1-2 IEC 60332-1-2 UL 1581 VW-1 UL FT1
Oil resistant according to	IEC 60811-404 DIN EN 50363-10-2
Halogen free according to	DIN EN 60754-1 IEC 60754-1 DIN 0472 Part 815

General

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

PUR Bus cables · CAN-BUS · C-track compatible

LÜTZE SUPERFLEX® CAN-BUS (C) PUR For highest requirements



Identification

Type SU CAN BUS (C) PUR (2×2×AWG24)
Part No. [104001](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems like CAN-BUS• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture• Compatible with all major drag chain brands• Compliant with NFPA 79 requirements |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Talc free and silicone free |

Construction

Description	SUPERFLEX® CAN-BUS (C) PUR
Number of conductors/cross-section	(2×2×AWG24/19)
Number of conductors	4
Cross-section, metric	0.25 mm²
Cross-section AWG	AWG 24
Jacket material	PUR
Jacket color	violet similar to RAL 4001
Outer Ø	8.4 mm
Outer Ø	0.33 inch
Weight	7.2 kg/100 m
Weight	50 Lbs/Mft
Cu-Index	3.3 kg/100 m
Cu-Index	23 Lbs/Mft

Technical data sheet

PUR Bus cables · CAN-BUS · C-track compatible

Construction Element 1

Conductor	AWG conductor CU-wire bare
Conductor marking	white • brown • green • yellow
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	stranded pairs
Overall wrapping	Non-woven material
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	300 V
Test voltage type	2000 V
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +75 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	7.5×D
Bending cycles	≥1 Mio
Travel distance	≤3.5 m
Speed	5 m/s
Acceleration	10 m/s ²

Technical Data Element 1

Conductor resistance	≤87.6 Ω/km
Operating capacitance wire-wire	approx.40 pF/m
Impedance	nom.120 Ω

Certifications/Standards

Certifications	CMX cULus
Conformity	CE RoHS REACH

Technical data sheet

PUR Bus cables · CAN-BUS · C-track compatible

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

General

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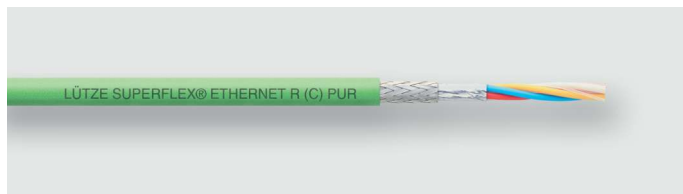
Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET R (C) PUR

For highest requirements, torsion-resistant

Cat. 5e, PROFINET Type R



Identification

Type	SU ET R (C) PUR (2×2×AWG22/19)StC Cat5e
Part No.	104050
Profinet Type	Type R

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture
Properties	• High protection against electromagnetic interferences (EMI) • Silicone free

Construction

Ethernet Key	SF/UTQ
Description	LÜTZE SUPERFLEX® ETHERNET R (C) PUR
Number of conductors/cross-section	(2×2×AWG22/19)StC
Number of conductors	4
Cross-section, metric	0.34 mm ²
Cross-section AWG	AWG 22
Jacket material	PUR
Jacket color	green RAL 6018
Outer Ø	6.5 mm
Weight	6 kg/100 m
Cu-Index	3.4 kg/100 m

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Construction Element 1

Element construction	(2×2×AWG22/19)
Conductor construction	AWG 22/19
Conductor	AWG conductor CU-wire tin-plated
Conductor marking	white • yellow • blue • orange
Conductor insulation	TPE

Overall construction

Overall stranding	star quad stranding layer pitch optimised
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 %

Technical data

Rated voltage	600 V
Test voltage type	2000 V
Temperature according to UL	80 °C
Temperature range moving	-20 °C ... +60 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	4×D
Category	Cat.5e
Bending cycles	≥5 Mio
Speed	5 m/s
Acceleration	10 m/s ²
Torsion cycles	≥ 5 Mio
Torsion	± 180°/m

Technical Data Element 1

Element construction	(2×2×AWG22/19)
Insulation resistance at 20 °C	5000 MΩ×km
Operating capacitance wire-wire	approx.50 pF/m
Loop resistance	≤114.8 mΩ/m
Impedance	nom.100 Ω
HF Characteristics according to	IEC 61156-6

Certifications/Standards

Certifications	cURus
UL style	AWM 21238
Conformity	CE RoHS REACH

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Burning behavior according to	UL 1581 sec. 1100 HFT/FT2 acc. to UL 2556 sec. 9.1 IEC 60332-1-2
Oil resistant according to	IEC 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN 0472 Part 815

General

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

PUR Bus cables · Profibus · C-track compatible

LÜTZE SUPERFLEX® Profibus (C) PUR

For highest requirements



Identification

Type SU PROFIBUS(C) PUR (3G0,75+1×2×AWG24/19)
Part No. [104275](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems like PROFIBUS DP, SINEC L2, F.I.P• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture• Compatible with all major drag chain brands• Compliant with NFPA 79 requirements |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Silicone free• Flame-retardant• Abrasion-resistant, nick-resistant, tear-propagation-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Coolant and lubricant resistant |

Construction

Description	SUPERFLEX® PROFIBUS (C) PUR
Number of conductors/cross-section	(3G0,75+(1×2×AWG24/19)St)
Number of conductors	5
Cross-section, metric	0.25 mm²
Cross-section AWG	AWG 24
Jacket material	PUR
Jacket color	violet similar to RAL 4001
Outer Ø	9.8 mm
Outer Ø	0.386 inch

Technical data sheet

PUR Bus cables · Profibus · C-track compatible

Surface	adhesion-free, matte
Weight	14.4 kg/100 m
Weight	97 Lbs/Mft
Cu-Index	6.6 kg/100 m
Cu-Index	44 Lbs/Mft

Construction Element 1

Element construction	3G0.75
Conductor	CU-wire bare
Conductor marking	blue • black • green/yellow
Conductor insulation	TPE

Construction Element 2

Element construction	(1×2×AWG24/19)
Conductor	AWG conductor
Conductor marking	red • green
Conductor insulation	foamed PP
Element shielding	Aluminium laminate Foil shield

Overall construction

Overall stranding	elements stranded together
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Silicone-free Halogen free Flame-retardant

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature according to UL	80 °C
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D

Technical Data Element 1

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Technical data sheet
PUR Bus cables · Profibus · C-track compatible

Loop resistance	≤165 mΩ/m
Impedance	nom.150 Ω

Certifications/Standards

Certifications	CMX cULus cURus
UL style	AWM 21198
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 UL 1581 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
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Technical data sheet

PUR Bus cables · Profibus · C-track compatible

LÜTZE SUPERFLEX® Profibus (C) PUR For highest requirements



Identification

Type	SU PROFIBUS (C) PUR FC (1×2×AWG24/19)
Part No.	104287

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems like PROFIBUS DP, SINEC L2, F.I.P • For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture • Compatible with all major drag chain brands • Compliant with NFPA 79 requirements
Properties	• High protection against electromagnetic interferences (EMI) • Silicone free • Flame-retardant • Abrasion-resistant, nick-resistant, tear-propagation-resistant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Coolant and lubricant resistant

Construction

Description	SUPERFLEX® PROFIBUS (C) PUR
Number of conductors/cross-section	(1×2×AWG24/19)
Number of conductors	2
Cross-section, metric	0.25 mm²
Cross-section AWG	AWG 24
Jacket material	PUR
Jacket color	violet similar to RAL 4001
Outer Ø	8 mm
Outer Ø	0.315 inch

Technical data sheet

PUR Bus cables · Profibus · C-track compatible

Surface	adhesion-free, matte
Weight	8 kg/100 m
Weight	54 Lbs/Mft
Cu-Index	3 kg/100 m
Cu-Index	20 Lbs/Mft
Mounting	Fast Connect

Construction Element 1

Element construction	(1×2×AWG24/19)
Conductor	AWG conductor CU-wire bare
Conductor marking	red • green
Conductor insulation	TPE
Stranding	conductors stranded in pairs

Overall construction

Overall stranding	stranded pairs
Inner jacket	TPE
Overall shield	Foil shield Braid tinned copper wires optical cover approx. 70 %
Jacket characteristics	Silicone-free Halogen free Flame-retardant

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature according to UL	75 °C
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	7.5×D
Bending cycles	≥3 Mio
Travel distance	≤3.5 m
Speed	5 m/s
Acceleration	10 m/s ²

Technical Data Element 1

Element construction	(1×2×AWG24/19)
Operating capacitance wire-wire	approx.30 pF/m
Loop resistance	≤165 mΩ/m
Impedance	nom.150 Ω

Technical data sheet
PUR Bus cables · Profibus · C-track compatible

Certifications/Standards

Certifications	CMX cULus cURus
UL style	AWM 21198
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 UL 1581 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
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Technical data sheet

PUR Bus cables · Profibus · C-track compatible

LÜTZE SUPERFLEX® Profibus (C) PUR

For highest requirements



Identification

Type SU PROFIBUS (C) PUR (1×2×AWG24/19)
Part No. [104265](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems like PROFIBUS DP, SINEC L2, F.I.P• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture• Compatible with all major drag chain brands• Compliant with NFPA 79 requirements |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Silicone free• Flame-retardant• Abrasion-resistant, nick-resistant, tear-propagation-resistant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Coolant and lubricant resistant |

Construction

Description	SUPERFLEX® PROFIBUS (C) PUR
Number of conductors/cross-section	(1×2×AWG24/19)
Number of conductors	2
Cross-section, metric	0.25 mm²
Cross-section AWG	AWG 24
Jacket material	PUR
Jacket color	violet similar to RAL 4001
Outer Ø	8 mm
Outer Ø	0.315 inch

Technical data sheet

PUR Bus cables · Profibus · C-track compatible

Surface	adhesion-free, matte
Weight	6.5 kg/100 m
Weight	37 Lbs/Mft
Cu-Index	3 kg/100 m
Cu-Index	16 Lbs/Mft

Construction Element 1

Element construction	(1×2×AWG24/19)
Conductor	AWG conductor CU-wire bare
Conductor marking	red • green
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	stranded pairs
Overall shield	Foil shield Braid tinned copper wires optical cover approx. 85 %
Jacket characteristics	Silicone-free Flame-retardant

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature according to UL	75 °C
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D
Minimum bending radius fixed	5×D
Bending cycles	≥5 Mio
Travel distance	≤3.5 m
Speed	3 m/s
Acceleration	3 m/s ²

Technical Data Element 1

Element construction	(1×2×AWG24/19)
Operating capacitance wire-wire	approx.30 pF/m
Loop resistance	≤165 mΩ/m
Impedance	nom.150 Ω

Technical data sheet

PUR Bus cables · Profibus · C-track compatible

Certifications/Standards

Certifications	CMX cULus cURus Meets NEC 392,800
UL style	AWM 21198
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 UL 1581 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
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Technical data sheet

Bus cables · Profibus · shielded

LÜTZE ELECTRONIC Profibus (C) PVC



Identification

Type	EL PROFIBUS (C) FRNC (1×2×AWG22/1)
Part No.	104267

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems like PROFIBUS DP, F.I.P. • With solid conductor AWG22/1 for hard wiring or with 7-wire stranded conductor for moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture
Properties	• High protection against electromagnetic interferences (EMI) • Silicone free

Construction

Description	ELECTRONIC Profibus (C) FRNC
Number of conductors/cross-section	(1×2×AWG22/1)StC
Number of conductors	2
Cross-section AWG	AWG 22
Jacket material	FRNC
Jacket color	violet similar to RAL 4001
Outer Ø	8 mm
Weight	7.6 kg/100 m
Cu-Index	3 kg/100 m
Mounting	Fast Connect

Construction Element 1

Element construction	(1×2×AWG22/1)
Conductor	AWG conductor CU-wire bare

Technical data sheet

Bus cables · Profibus · shielded

Conductor marking	red • green
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	stranded pairs
Overall wrapping	transparent plastic film
Inner jacket	FRNC
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 70 %
Jacket characteristics	Flame-retardant Silicone-free Halogen free

Technical data

Rated voltage	250 V
Test voltage type	AC 1500 V
Temperature according to UL	80 °C
Temperature range moving	-10 °C ... +70 °C
Temperature range fixed	-30 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	8×D

Technical Data Element 1

Element construction	(1×2×AWG22/1)
Operating capacitance wire-wire	approx.30 pF/m
Loop resistance	≤110 mΩ/m
Impedance	nom.150 Ω

Certifications/Standards

Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2

General

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

Bus cables · Profibus · shielded

LÜTZE ELECTRONIC Profibus (C) PVC



Identification

Type	EL BUS(C)PVC(1×2×AWG22/7)VI
Part No.	104214

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems like PROFIBUS DP, F.I.P. • With solid conductor AWG22/1 for hard wiring or with 7-wire stranded conductor for moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture
Properties	• High protection against electromagnetic interferences (EMI) • Silicone free

Construction

Description	ELECTRONIC Profibus (C) PVC
Number of conductors/cross-section	(1×2×AWG22/7)StC
Number of conductors	2
Cross-section AWG	AWG 22
Jacket material	PVC
Jacket color	violet similar to RAL 4001
Outer Ø	7.8 mm
Weight	6.8 kg/100 m
Cu-Index	3 kg/100 m

Construction Element 1

Element construction	(1×2×AWG22/7)
Conductor	AWG conductor CU-wire bare
Conductor marking	red • green

Technical data sheet

Bus cables · Profibus · shielded

Conductor insulation	Special Polyolefin
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Overall construction

Overall stranding	stranded pairs
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 70 %
Jacket characteristics	Flame-retardant Silicone-free

Technical data

Rated voltage	250 V
Test voltage type	AC 1500 V
Temperature range moving	-5 °C ... +70 °C
Temperature range fixed	-30 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D

Technical Data Element 1

Element construction	(1×2×AWG22/7)
Operating capacitance wire-wire	approx.30 pF/m
Loop resistance	≤110 mΩ/m
Impedance	nom.150 Ω

Certifications/Standards

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
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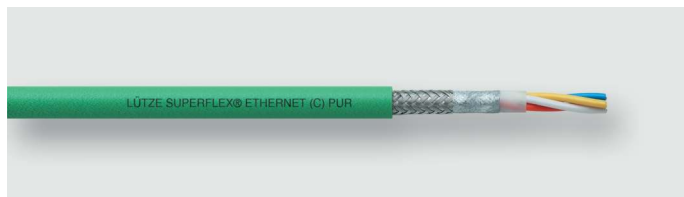
Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET (C) PUR

For highest requirements

Cat. 5e, Profinet Type C



Identification

Type	SU ET (C) PUR (2×2×AWG22/19)C Cat5e
Part No.	104302
Profinet Type	Type C

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture
Properties	• High protection against electromagnetic interferences (EMI) • Silicone free • Flame-retardant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Industrial and salt water resistant • Weathering, ozone and UV resistant (normal lighting conditions) • Excellent coolant and lubricant resistance • Largely resistant to oils, greases, alcohol-free benzines and kerosene • Low adhesion, abrasion-resistant, nick-resistant, tear-resistant • Very good alternating bending strength

Construction

Ethernet Key	S/UTQ
Description	SUPERFLEX® ETHERNET (C) PUR
Number of conductors/cross-section	(2×2×AWG22/19)C
Number of conductors	4
Cross-section, metric	0.34 mm ²

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Cross-section AWG	AWG 22
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	6.3 kg/100 m
Weight	50 Lbs/Mft
Cu-Index	3.2 kg/100 m
Mounting	Fast Connect

Construction Element 1

Element construction	(2×2×AWG22/19)
Conductor construction	AWG 22/19
Conductor	AWG conductor CU-wire bare
Conductor marking	blue • white • yellow • orange
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	star quad stranding
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Silicone-free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.5e
Bending cycles	≥3 Mio
Travel distance	≤3.5 m
Speed	5 m/s
Acceleration	10 m/s ²

Technical Data Element 1

Element construction	(2×2×AWG22/19)
Operating capacitance wire-wire	approx.48 pF/m
Loop resistance	≤110 mΩ/m

PUR Network cables · ETHERNET · C-track compatible

Certifications/Standards

General

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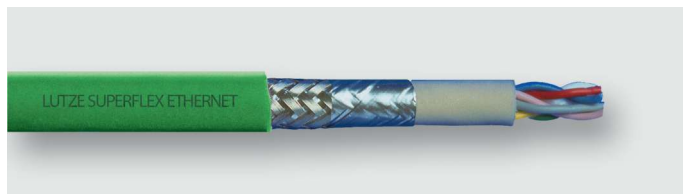
Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET (C) PUR

For highest requirements

Cat. 5e, Profinet Type C



Identification

Type	SU ET (C) PUR (2×2×AWG22/7)C Cat5e
Part No.	104303
Profinet Type	Type C

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture
Properties	• High protection against electromagnetic interferences (EMI) • Silicone free • Flame retardant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Industrial and salt water resistant • Weathering, ozone and UV resistant (normal lighting conditions) • Excellent coolant and lubricant resistance • Largely resistant to oils, greases, alcohol-free benzines and kerosene • Low adhesion, abrasion-resistant, nick-resistant, tear-resistant • Very good alternating bending strength

Construction

Ethernet Key	S/UTQ
Description	SUPERFLEX® ETHERNET (C) PUR
Number of conductors/cross-section	(2×2×AWG22/7)C
Number of conductors	4
Cross-section, metric	0.34 mm ²

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Cross-section AWG	AWG 22
Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	6.5 mm
Outer Ø	0.256 inch
Surface	adhesion-free, matte
Weight	6.5 kg/100 m
Weight	41 Lbs/Mft
Cu-Index	3 kg/100 m
Cu-Index	21 Lbs/Mft
Mounting	Fast Connect

Construction Element 1

Element construction	(2×2×AWG22/7)
Conductor construction	AWG 22/7
Conductor	AWG conductor CU-wire tin-plated
Conductor marking	blue • white • yellow • orange
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	Star quad stranding
Overall shield	Braid shield Tinned copper wires Optical cover approx. 85 %
Jacket characteristics	Flame-retardant Silicone free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.5e
Bending cycles	≥3 Mio
Travel distance	≤3.5 m
Speed	5 m/s
Acceleration	10 m/s ²

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Loop resistance	≤110 mΩ/m
Impedance	nom.100 Ω

Certifications/Standards

Certifications	CMX cULus
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 VW-1 Flame Test 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
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Technical data sheet

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC

Cat. 5e, Profinet



Identification

Type	EL ET (C) PVC (2×2×AWG22/1) StC Cat5e
Part No.	104301
Profinet Type	Type A

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • For fixed installation or moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture • Cable design for harsh industrial environments and operating conditions with high noise levels • Application in automation technology, transport and conveyor technology, machine tool manufacture • Compliant with NFPA 79 requirements
Properties	• High protection against electromagnetic interferences (EMI) • Talc free and silicone free • Flame retardant

Construction

Ethernet Key	SF/UTQ
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(2×2×AWG22/1)StC
Number of conductors	4
Cross-section, metric	0.34 mm ²
Cross-section AWG	AWG 22
Jacket material	PVC
Jacket color	green similar to RAL 6018

Technical data sheet

PVC Network cables · ETHERNET · shielded

Outer Ø	6.5 mm
Outer Ø	0.256 inch
Surface	adhesion-free, matte
Weight	6.8 kg/100 m
Weight	44 Lbs/Mft
Cu-Index	3.2 kg/100 m
Cu-Index	25 Lbs/Mft
Mounting	Fast Connect

Construction Element 1

Element construction	(2×2×AWG22/1)
Conductor construction	AWG 22/1
Conductor	AWG conductor CU-wire bare
Conductor marking	white · yellow · blue · orange
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	Star quad stranding
Overall wrapping	Transparent plastic film
Inner jacket	TPE
Overall shield	Foil shield Braid shield Tinned copper wires Optical cover approx. 80 %
Jacket characteristics	Silicone free Flame-retardant

Technical data

Rated voltage	300 V
Rated voltage U_N	600 V UL AWM
Test voltage type	1500 V
Temperature according to UL	75 °C
Temperature range moving	-5 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.5e
Transmission performance according to IEC 61156-5	
to	

Technical Data Element 1

Element construction	(2×2×AWG22/1)
Insulation resistance at 20 °C	5000 MΩ×km
Operating capacitance wire-wire	approx.50 pF/m
Loop resistance	≤110 mΩ/m

PVC Network cables · ETHERNET · shielded

Certifications/Standards

General

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

Technical data sheet

PUR Bus cables · DeviceNet™ · C-track compatible

LÜTZE SUPERFLEX® DeviceNet™ (C) PUR

For highest requirements



Identification

Type SU BUS (C) PUR ((2×AWG24)+(2×AWG22))
Part No. [104289](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• For the wiring of industrial sensors, control devices, valves, and other equipment• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture• Compatible with all major drag chain brands• Compliant with NFPA 79 requirements |
| Properties | <ul style="list-style-type: none">• 2-pair cable: The pair with the smaller cross section serves for the data transmission, the pair with the larger cross section is for the power supply• High protection against electromagnetic interferences (EMI)• Talc free and silicone free |

Construction

Description	SUPERFLEX® DeviceNet™ (C) PUR
Number of conductors/cross-section	((2×AWG24)+(2×AWG22))
Number of conductors	4
Cross-section, metric	0.25 mm²
Cross-section AWG	AWG 22
Jacket material	PUR
Jacket color	violet similar to RAL 4001
Outer Ø	7 mm
Outer Ø	0.276 inch
Surface	adhesion-free, matte

Technical data sheet

PUR Bus cables · DeviceNet™ · C-track compatible

Weight	6.2 kg/100 m
Weight	57 Lbs/Mft
Cu-Index	3.6 kg/100 m
Cu-Index	19 Lbs/Mft

Construction Element 1

Element construction	(2×AWG24)
Conductor	CU-wire tin-plated
Conductor marking	white • blue
Conductor insulation	Foamed polyolefin
Stranding	Conductors stranded in pairs
Element shielding	Aluminium laminate Foil shield

Construction Element 2

Element construction	(2×AWG22)
Conductor	CU-wire tin-plated
Conductor marking	red • black
Conductor insulation	Polyolefin
Stranding	Conductors stranded in pairs
Element shielding	Aluminium laminate Foil shield

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. 80 %
Jacket characteristics	Flame-retardant Oil resistant Silicone free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature according to UL	75 °C
Temperature range moving	-20 °C ... +75 °C
Temperature range fixed	-40 °C ... +75 °C

Technical data sheet

PUR Bus cables · DeviceNet™ · C-track compatible

Acceleration 3 m/s²

Technical Data Element 1

Element construction (2×AWG24)
Operating capacitance wire-wire approx.40 pF/m
Impedance nom.120 Ω

Technical Data Element 2

Element construction (2×AWG22)

Certifications/Standards

Certifications	cULus CMX Meets NEC 392, 800
Conformity	CE RoHS REACH TSCA
Burning behavior according to	DIN EN 60332-1-2 IEC 60332-1-2 UL 1581 VW-1 UL FT1
Oil resistant according to	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 Bus cables · Profibus · shielded

LÜTZE ELECTRONIC Profibus (C) PVC



Identification

Type	EL PROFIBUS (C) PVC FC (1×2×AWG22/1) CMG
Part No.	104293

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems like PROFIBUS DP, F.I.P. • With solid conductor AWG22/1 for hard wiring or with 7-wire stranded conductor for moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture • Compliant with NFPA 79 requirements
Properties	• High protection against electromagnetic interferences (EMI) • Talc free and silicone free

Construction

Description	ELECTRONIC Profibus (C) PVC
Number of conductors/cross-section	(1×2×AWG22/1)
Number of conductors	2
Cross-section AWG	AWG 22
Jacket material	Special PVC
Jacket color	violet similar to RAL 4001
Outer Ø	8 mm
Outer Ø	0.307 inch
Weight	7.6 kg/100 m
Weight	50 Lbs/Mft
Cu-Index	3 kg/100 m
Cu-Index	20 Lbs/Mft
Mounting	Fast Connect

Technical data sheet

PVC Bus cables · Profibus · shielded

Construction Element 1

Element construction	(1×2×AWG22/1)
Conductor	AWG conductor CU-wire bare
Conductor marking	red • green
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	stranded pairs
Overall wrapping	transparent plastic film
Inner jacket	PVC
Overall shield	Foil shield Braid tinned copper wires optical cover approx. 60 %
Jacket characteristics	Flame-retardant Silicone-free Halogen free

Technical data

Rated voltage	250 V
Rated voltage UL	600
Test voltage type	AC 1500 V
Temperature according to UL	75 °C
Temperature range moving	-10 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	7.5×D

Technical Data Element 1

Element construction	(1×2×AWG22/1)
Insulation resistance at 20 °C	≥5000 MΩ×km
Operating capacitance wire-wire	approx.30 pF/m
Loop resistance	≤110 mΩ/m
Impedance	nom.150 Ω

Certifications/Standards

Certifications	cULus CL 3 CMG cURus Meets NEC 392,800
UL style	AWM 20201

Technical data sheet

PVC Bus cables · Profibus · shielded

Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-3-24 CMG: FT4 UL 1685

General

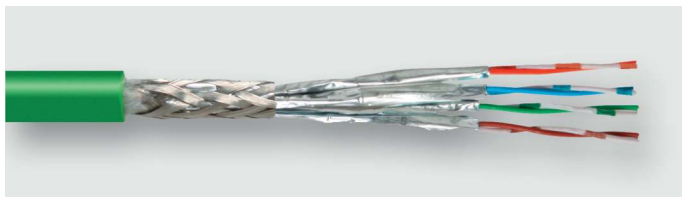
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
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Technical data sheet

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC

Cat. 5e



CC-Link IE field

Identification

Type EL ET (C) PVC (4×2×AWG24/7)StC Cat5e
Part No. [104336](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol• For fixed installation or moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture• Cable design for harsh industrial environments and operating conditions with high noise levels• Application in automation technology, transport and conveyor technology, machine tool manufacture• Compliant with NFPA 79 requirements |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Talc free and silicone free• Flame-retardant |

Construction

Ethernet Key	SF/UTP
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(4×2×AWG24/7)StC
Number of conductors	8
Cross-section, metric	0.25 mm ²
Cross-section AWG	AWG 24
Jacket material	PVC
Jacket color	green similar to RAL 6018
Outer Ø	7.3 mm

Technical data sheet

PVC Network cables · ETHERNET · shielded

Outer Ø	0.287 inch
Surface	adhesion-free, matte
Weight	6.9 kg/100 m
Weight	46 Lbs/Mft
Cu-Index	3.8 kg/100 m
Cu-Index	26 Lbs/Mft

Construction Element 1

Element construction	(4×2×AWG24/7)
Conductor construction	AWG 24/7
Conductor	AWG conductor CU-wire bare
Conductor marking	white/blue • blue • white/orange • orange • white/green • green • white/brown • brown
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	stranded pairs
Overall wrapping	Non-woven material
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Silicone-free Flame-retardant

Technical data

Rated voltage	300 V
Test voltage type	1500 V
Temperature according to UL	75 °C
Temperature range moving	-5 °C ... +70 °C
Temperature range fixed	-30 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.5e

Technical Data Element 1

Element construction	(4×2×AWG24/7)
Operating capacitance wire-wire	approx.48 pF/m
Loop resistance	≤165 mΩ/m

Technical data sheet

PVC Network cables · ETHERNET · shielded

Conformity	CE RoHS REACH TSCA
Burning behavior according to	DIN EN 60332-1-2 DIN EN 60332-3-24 UL 1685 UL FT4

General

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

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET (C) PUR

For highest requirements

Cat. 5e



Identification

Type SU ET (C) PUR (4×2×AWG24/19)C Cat5e
Part No. [104337](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Silicone free• Flame-retardant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Industrial and salt water resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Very good alternating bending strength |

Construction

Ethernet Key	S/UTP
Description	SUPERFLEX® ETHERNET (C) PUR
Number of conductors/cross-section	(4×2×AWG24/19)C
Number of conductors	8
Cross-section, metric	0.25 mm ²
Cross-section AWG	AWG 24

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	7.8 mm
Outer Ø	0.307 inch
Surface	adhesion-free, matte
Weight	8.5 kg/100 m
Weight	46 Lbs/Mft
Cu-Index	4.4 kg/100 m
Cu-Index	37 Lbs/Mft

Construction Element 1

Element construction	(4×2×AWG24/19)
Conductor construction	AWG 24/19
Conductor	AWG conductor CU-wire bare
Conductor marking	white/blue • blue • white/orange • orange • white/green • green • white/brown • brown
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	stranded pairs
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Silicone-free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.5e
Bending cycles	≥2 Mio
Travel distance	≤4.5 m
Speed	≤3 m/s
Acceleration	≤3 m/s ²

Technical Data Element 1

Element construction	(4×2×AWG24/19)
Operating capacitance wire-wire	approx.48 pF/m
Loop resistance	≤155 mΩ/m
Impedance	nom.100 Ω

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Certifications/Standards

Certifications	cURus
UL style	AWM 21198
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 VW-1 Flame Test UL FT1
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

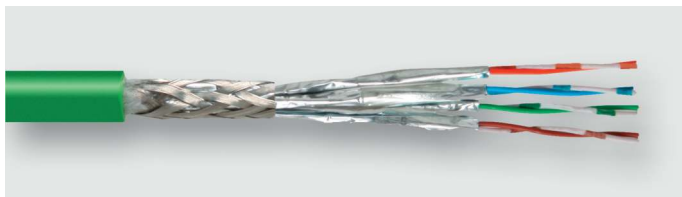
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
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Technical data sheet

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC

Cat. 7



Identification

Type EL ET (C) PVC (4×(2×AWG26/7))St)C Cat7
Part No. [104331](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol• For fixed installation or moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture• Cable design for harsh industrial environments and operating conditions with high noise levels• Application in automation technology, transport and conveyor technology, machine tool manufacture• Compliant with NFPA 79 requirements |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Talc free and silicone free• Flame-retardant |

Construction

Ethernet Key	S/FTP
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(4×(2×AWG26/7))St)C
Number of conductors	8
Cross-section, metric	0.14 mm ²
Cross-section AWG	AWG 26
Jacket material	PVC
Jacket color	green similar to RAL 6018
Outer Ø	6.4 mm

Technical data sheet

PVC Network cables · ETHERNET · shielded

Outer Ø	0.252 inch
Surface	adhesion-free, matte
Weight	5.8 kg/100 m
Weight	42 Lbs/Mft
Cu-Index	3.3 kg/100 m
Cu-Index	22 Lbs/Mft

Construction Element 1

Element construction	(4×(2×AWG26/7))
Conductor construction	AWG 26/7
Conductor	AWG conductor CU-wire bare
Conductor marking	white/blue • blue • white/orange • orange • white/green • green • white/brown • brown
Conductor insulation	Special Polyolefin
Element shielding	Aluminium laminate Foil shield

Overall construction

Overall stranding	stranded pairs
Overall wrapping	Non-woven material
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Silicone-free Flame-retardant

Technical data

Rated voltage	300 V
Test voltage type	1500 V
Temperature according to UL	75 °C
Temperature range moving	-5 °C ... +70 °C
Temperature range fixed	-30 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.7

Technical Data Element 1

Element construction	(4×(2×AWG26/7))
Operating capacitance wire-wire	approx.48 pF/m

Technical data sheet

PVC Network cables · ETHERNET · shielded

Certifications/Standards

Certifications	CMG cULus
Conformity	CE RoHS REACH TSCA
Burning behavior according to	DIN EN 60332-1-2 DIN EN 60332-3-24 UL 1685 UL FT4

General

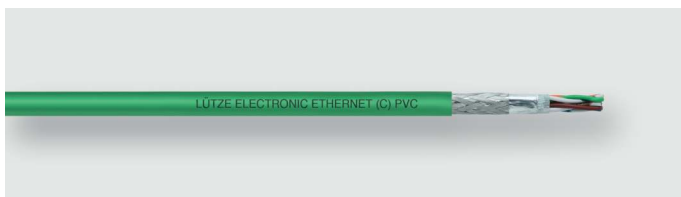
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
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Technical data sheet

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC

Cat. 5e



CC-Link IE field

Identification

Type EL ET (C) PVC (4×2×AWG26/7)StC Cat5e
Part No. [104335](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol• For fixed installation or moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture• Cable design for harsh industrial environments and operating conditions with high noise levels• Application in automation technology, transport and conveyor technology, machine tool manufacture• Compliant with NFPA 79 requirements |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Talc free and silicone free• Flame-retardant |

Construction

Ethernet Key	SF/UTP
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(4×2×AWG26/7)StC
Number of conductors	8
Cross-section, metric	0.14 mm ²
Cross-section AWG	AWG 26
Jacket material	PVC
Jacket color	green similar to RAL 6018
Outer Ø	6.3 mm

Technical data sheet

PVC Network cables · ETHERNET · shielded

Outer Ø	0.248 inch
Surface	adhesion-free, matte
Weight	5.5 kg/100 m
Weight	37 Lbs/Mft
Cu-Index	3 kg/100 m
Cu-Index	20 Lbs/Mft

Construction Element 1

Element construction	(4×2×AWG26/7)
Conductor construction	AWG 26/7
Conductor	AWG conductor CU-wire bare
Conductor marking	white/blue • blue • white/orange • orange • white/green • green • white/brown • brown
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	stranded pairs
Overall wrapping	Non-woven material
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Silicone-free Flame-retardant

Technical data

Rated voltage	300 V
Test voltage type	1500 V
Temperature according to UL	75 °C
Temperature range moving	-5 °C ... +70 °C
Temperature range fixed	-30 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.5e

Technical Data Element 1

Element construction	(4×2×AWG26/7)
Operating capacitance wire-wire	approx.48 pF/m
Loop resistance	≤273 mΩ/m
Impedance	nom.100 Ω

Certifications/Standards

Certifications	CMG cULus
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Technical data sheet

PVC Network cables · ETHERNET · shielded

Conformity	CE RoHS REACH TSCA
Burning behavior according to	DIN EN 60332-1-2 DIN EN 60332-3-24 UL 1685 UL FT4

General

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

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC

Cat. 5e, Profinet



Identification

Type	EL ET (C) PVC (2×2×AWG22/7) StC Cat5e
Part No.	104307
Profinet Type	Type B

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • For fixed installation or moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture • Cable design for harsh industrial environments and operating conditions with high noise levels • Application in automation technology, transport and conveyor technology, machine tool manufacture • Compliant with NFPA 79 requirements
Properties	• High protection against electromagnetic interferences (EMI) • Talc free and silicone free • Flame retardant

Construction

Ethernet Key	SF/UTQ
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(2×2×AWG22/7)StC
Number of conductors	4
Cross-section, metric	0.34 mm ²
Cross-section AWG	AWG 22
Jacket material	PVC
Jacket color	green similar to RAL 6018

Technical data sheet

PVC Network cables · ETHERNET · shielded

Outer Ø	6.5 mm
Outer Ø	0.256 inch
Surface	adhesion-free, matte
Weight	6.9 kg/100 m
Weight	44 Lbs/Mft
Cu-Index	3.2 kg/100 m
Cu-Index	21 Lbs/Mft
Mounting	Fast Connect

Construction Element 1

Element construction	(2×2×AWG22/7)
Conductor construction	AWG 22/7
Conductor	AWG conductor CU-wire bare
Conductor marking	white · yellow · blue · orange
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	Star quad stranding
Overall wrapping	Transparent plastic film
Inner jacket	TPE
Overall shield	Foil shield Braid shield Tinned copper wires Optical cover approx. 80 %
Jacket characteristics	Silicone free Flame-retardant

Technical data

Rated voltage	300 V
Rated voltage U _N	600 V UL AWM
Test voltage type	1500 V
Temperature according to UL	75 °C
Temperature range moving	-5 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.5e
Transmission performance according to IEC 61156-5	

Technical data sheet

PVC Network cables · ETHERNET · shielded

Impedance	nom.100 Ω
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Certifications/Standards

Certifications	cULus CMG 75 °C acc. UL 444 PLTC cURus Class I and II, Div. 2 Class 1 Div. 2 per NEC 501, 502, 505
UL style	AWM 20201
Conformity	CE RoHS REACH TSCA
Burning behavior according to	DIN EN 60332-1-2 DIN EN 60332-3-24 UL 1685 UL FT4
Oil resistant according to	Oil Res I UL 1581 part 480
UV-resistant according to	UL Sun Res UL 1581 part 1200

General

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

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC

Cat. 5e



Identification

Type EL ET (C) PVC (4×2×AWG22/7)StC Cat5e
Part No. [104350](#)

Product version

Datasheet version 06

Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • For fixed installation or moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture • Cable design for harsh industrial environments and operating conditions with high noise levels • Application in automation technology, transport and conveyor technology, machine tool manufacture • Compliant with NFPA 79 requirements
Properties	• High active and passive interference resistance (EMC) • Talc free and silicone free

Construction

Ethernet Key	SF/UTP
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(4×2×AWG22/7)StC
Number of conductors	8
Cross-section, metric	0.34 mm ²
Cross-section AWG	AWG 22
Jacket material	PVC
Jacket color	green similar to RAL 6018
Outer Ø	8.6 mm
Surface	matte, adhesion-free

Technical data sheet

PVC Network cables · ETHERNET · shielded

Weight	9.2 kg/100 m
Cu-Index	4.8 kg/100 m

Construction Element 1

Element construction	(4×2×AWG22/7)StC
Conductor construction	AWG 22/7
Conductor	AWG conductor CU-wire tin-plated
Conductor marking	white/blue • blue • white/orange • orange • white/green • green • white/brown • brown
Conductor insulation	Special Polyolefin
Stranding	conductors stranded in pairs

Overall construction

Overall stranding	stranded pairs
Overall shield	aluminium-laminated film shield Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Silicone-free

Technical data

Rated voltage	300 V
Rated voltage U_N	600 V AWM 2570 300 V PLTC
Test voltage type	AC 1000 V
Temperature according to UL	75 °C
Temperature range moving	-25 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.5e

Technical Data Element 1

Element construction	(4×2×AWG22/7)StC
Insulation resistance at 20 °C	≥5000 MΩ×km
Operating capacitance wire-wire	approx.50 pF/m
Loop resistance	≤114.8 mΩ/m
Impedance	nom.100 Ω

Technical data sheet
PVC Network cables · ETHERNET · shielded

Certifications/Standards

Certifications	cULus PLTC cURus CMX Outdoor-CMG
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 DIN EN 60332-3-24 UL 1685 UL FT4
Oil resistant according to	Oil Res I

General

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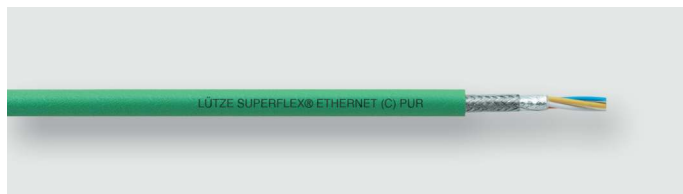
Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET (C) PUR

For highest requirements

Cat. 5e



Identification

Type SU ET (C) PUR (2×2×AWG26/19)StC Cat5e
Part No. [104379](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Silicone free• Flame-retardant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Industrial and salt water resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Very good alternating bending strength |

Construction

Ethernet Key	SF/UTQ
Description	SUPERFLEX® ETHERNET (C) PUR
Number of conductors/cross-section	(2×2×AWG26/19)StC
Cross-section, metric	0.14 mm ²
Cross-section AWG	AWG 26
Jacket material	PUR

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Jacket color	green similar to RAL 6018
Outer Ø	5.3 mm
Outer Ø	0.209 inch
Surface	adhesion-free, matte
Weight	3.5 kg/100 m
Weight	65 Lbs/Mft
Cu-Index	2 kg/100 m
Cu-Index	13.4 Lbs/Mft

Construction Element 1

Element construction	(2×2×AWG26/19)
Conductor construction	AWG 26/19
Conductor	AWG conductor CU-wire bare
Conductor marking	white • blue • yellow • orange
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	star quad stranding
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Silicone-free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.5e
Bending cycles	≥5 Mio
Travel distance	≤3.5 m
Speed	5 m/s
Acceleration	10 m/s ²

Technical Data Element 1

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Certifications/Standards

Certifications	cURus
UL style	AWM 21198
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 part VW-1 Flame Test 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
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Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET (C) PUR

For highest requirements

Cat. 6



Identification

Type SU ET (C) PUR (4×2×AWG26/19)StC Cat6
Part No. [104347](#)

Product version

Datasheet version 01

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Silicone free• Flame-retardant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Industrial and salt water resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Very good alternating bending strength |

Construction

Ethernet Key	SF/UTP
Description	SUPERFLEX® ETHERNET (C) PUR
Number of conductors/cross-section	(4×2×AWG26/19)StC
Number of conductors	8
Cross-section, metric	0.19 mm ²
Cross-section AWG	AWG 26

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	7.8 mm
Outer Ø	0.307 inch
Surface	adhesion-free, matte
Weight	7.4 kg/100 m
Weight	42 Lbs/Mft
Cu-Index	3.4 kg/100 m
Cu-Index	28 Lbs/Mft

Construction Element 1

Element construction	(4×2×AWG26/19)
Conductor construction	AWG 26/19
Conductor	AWG conductor CU-wire tin-plated
Conductor marking	white/blue • blue • white/orange • orange • white/green • green • white/brown • brown
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	stranded pairs
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Silicone-free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	2000 V
Operating voltage	125 V
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	4×D
Category	Cat.6
Bending cycles	≥3 Mio
Travel distance	≤4.5 m
Speed	3 m/s
Acceleration	3 m/s ²
Tensile strength moving	40 N
Tensile strength fixed	145 N

Technical data sheet
PUR Network cables · ETHERNET · C-track compatible

Technical Data Element 1

Element construction	(4×2×AWG26/19)
Insulation resistance at 20 °C	5000 MΩ×km
Operating capacitance wire-wire	approx.50 pF/m
Loop resistance	≤280 mΩ/m
Impedance	nom.100 Ω

Certifications/Standards

Certifications	CMX
Conformity	CE RoHS REACH
Burning behavior according to	IEC 60332-1-2 UL 2556 sec. 9.4 UL Vertical Flame Test UL 1581 part 1080 VW-1
Oil resistant according to	IEC 60811-404 DIN EN 50363-10-2
Halogen free according to	IEC 60754-1 DIN 0472 Part 815

General

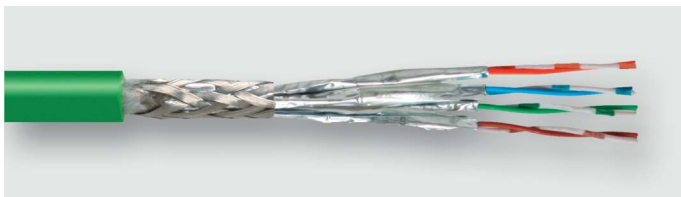
Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU
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Technical data sheet

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC

Cat. 6_A



Identification

Type EL ET (C) PVC (4×(2×AWG26/7)St)C Cat6A
Part No. [104338](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol• For fixed installation or moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture• Cable design for harsh industrial environments and operating conditions with high noise levels• Application in automation technology, transport and conveyor technology, machine tool manufacture• Compliant with NFPA 79 requirements |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Talc free and silicone free• Flame-retardant |

Construction

Ethernet Key	S/FTP
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(4×(2×AWG26/7)St)C
Number of conductors	8
Cross-section, metric	0.14 mm ²
Cross-section AWG	AWG 26
Jacket material	PVC
Jacket color	green similar to RAL 6018
Outer Ø	6.4 mm

Technical data sheet

PVC Network cables · ETHERNET · shielded

Outer Ø	0.252 inch
Surface	adhesion-free, matte
Weight	5.8 kg/100 m
Weight	36 Lbs/Mft
Cu-Index	3.3 kg/100 m
Cu-Index	22 Lbs/Mft

Construction Element 1

Element construction	(4×(2×AWG26/7))
Conductor construction	AWG 26/7
Conductor	AWG conductor CU-wire bare
Conductor marking	white/blue • blue • white/orange • orange • white/green • green • white/brown • brown
Conductor insulation	Special Polyolefin
Element shielding	Aluminium laminate Foil shield

Overall construction

Overall stranding	stranded pairs
Overall wrapping	Non-woven material
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Silicone-free Flame-retardant

Technical data

Rated voltage	300 V
Test voltage type	1500 V
Temperature according to UL	75 °C
Temperature range moving	-5 °C ... +70 °C
Temperature range fixed	-30 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.6 _A

Technical Data Element 1

Element construction	(4×(2×AWG26/7))
Operating capacitance wire-wire	approx.48 pF/m

Technical data sheet

PVC Network cables · ETHERNET · shielded

Certifications/Standards

Certifications	CMG cULus
Conformity	CE RoHS REACH TSCA
Burning behavior according to	DIN EN 60332-1-2 DIN EN 60332-3-24 UL 1685 UL FT4

General

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

PVC Bus cables · Profibus · shielded

LÜTZE ELECTRONIC Profibus (C) PVC



Identification

Type	EL PROFIBUS (C) PVC (1×2×AWG24/7) CMG
Part No.	104344

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems like PROFIBUS DP, F.I.P. • With solid conductor AWG22/1 for hard wiring or with 7-wire stranded conductor for moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture • Compliant with NFPA 79 requirements
Properties	• High protection against electromagnetic interferences (EMI) • Talc free and silicone free

Construction

Description	ELECTRONIC Profibus (C) PVC
Number of conductors/cross-section	(1×2×AWG24/7)
Number of conductors	2
Cross-section AWG	AWG 24
Jacket material	Special PVC
Jacket color	violet similar to RAL 4001
Outer Ø	8 mm
Outer Ø	0.315 inch
Weight	7.2 kg/100 m
Weight	44 Lbs/Mft
Cu-Index	3 kg/100 m
Cu-Index	17 Lbs/Mft

Technical data sheet

PVC Bus cables · Profibus · shielded

Construction Element 1

Element construction	(1×2×AWG24/7)
Conductor	AWG conductor CU-wire bare
Conductor marking	red • green
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	stranded pairs
Overall shield	Foil shield Braid tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Silicone-free

Technical data

Rated voltage	250 V
Rated voltage UL	600
Test voltage type	AC 1500 V
Temperature according to UL	75 °C
Temperature range moving	-10 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	7.5×D

Technical Data Element 1

Element construction	(1×2×AWG24/7)
Insulation resistance at 20 °C	≥5000 MΩ×km
Operating capacitance wire-wire	approx.30 pF/m
Loop resistance	≤165 mΩ/m
Impedance	nom.150 Ω

Certifications/Standards

Certifications	cULus CL 3 CMG cURus Meets NEC 392,800
UL style	AWM 21694
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-3-24 CMG: FT4 UL 1685

Technical data sheet

PVC Bus cables · Profibus · shielded

General

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

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET (C) PUR
For highest requirements, torsion-resistant
Cat. 6A, Profinet Type C



Identification

Type	SU ET (C) PUR (4×2×AWG24/7)StC Cat6A
Part No.	104401
Profinet Type	Type C

Product version

Datasheet version	02
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Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture
Properties	• High protection against electromagnetic interferences (EMI) • Silicone free

Construction

Ethernet Key	SF/UTP
Description	SUPERFLEX® ETHERNET (C) PUR
Number of conductors/cross-section	(4×2×AWG24/7)StC
Number of conductors	8
Cross-section, metric	0.25 mm ²
Cross-section AWG	AWG 24
Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	8.9 mm
Surface	adhesion-free, matte
Weight	8.8 kg/100 m
Weight	59 Lbs/Mft

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Cu-Index	4.4 kg/100 m
Cu-Index	29.5 Lbs/Mft

Construction Element 1

Element construction	(4×2×AWG24/7)
Conductor construction	AWG 24/7
Conductor	AWG conductor CU-wire bare
Conductor marking	white/blue • blue • white/orange • orange • white/green • green • white/brown • brown
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	stranding with cross element
Overall wrapping	Non-woven material
Inner jacket	FRNC
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 90 %
Jacket characteristics	Flame-retardant Oil resistant abrasion resistant grease-resistant alkali-resistant lubricant-resistant Silicone-free

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	4×D
Category	Cat.6 _A
Bending cycles	≥1 Mio
Travel distance	≤10 m
Speed	≤5 m/s
Acceleration	≤10 m/s ²
Torsion	± 180°/m

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Certifications/Standards

Certifications	cURus
UL style	AWM 21198
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1-2 Horizontal Flame Test UL FT2
Oil resistant according to	DIN EN 60811-404 DIN EN 50363-10-2
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
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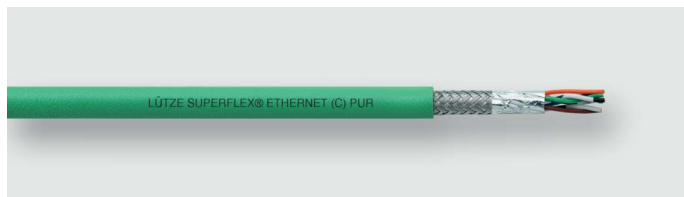
Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET (C) PUR

For highest requirements

Cat. 5e



Identification

Type SU ET (C) PUR (4×2×AWG26/19)StC Cat5e
Part No. [104396](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Silicone free• Flame-retardant• Hydrolysis-resistant, microbe-resistant, and rot-resistant• Industrial and salt water resistant• Weathering, ozone and UV resistant (normal lighting conditions)• Excellent coolant and lubricant resistance• Largely resistant to oils, greases, alcohol-free benzines and kerosene• Low adhesion, abrasion-resistant, nick-resistant, tear-resistant• Very good alternating bending strength |

Construction

Ethernet Key	SF/UTP
Description	SUPERFLEX® ETHERNET (C) PUR
Number of conductors/cross-section	(4×2×AWG26/19)StC
Cross-section, metric	0.14 mm ²
Cross-section AWG	AWG 26
Jacket material	PUR

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Jacket color	green similar to RAL 6018
Outer Ø	6.7 mm
Outer Ø	0.264 inch
Surface	adhesion-free, matte
Weight	5.1 kg/100 m
Weight	36 Lbs/Mft
Cu-Index	2.8 kg/100 m
Cu-Index	19 Lbs/Mft

Construction Element 1

Element construction	(4×2×AWG26/19)
Conductor construction	AWG 26/19
Conductor	AWG conductor CU-wire bare
Conductor marking	white/blue • blue • white/orange • orange • white/green • green • white/brown • brown
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	stranded pairs
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Silicone-free Halogen free

Technical data

Rated voltage	300 V
Test voltage type	AC 1500 V
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.5e
Bending cycles	≥5 Mio
Travel distance	≤3.5 m
Speed	5 m/s
Acceleration	10 m/s ²

Technical Data Element 1

Element construction	(4×2×AWG26/19)
Operating capacitance wire-wire	approx.48 pF/m
Loop resistance	≤280 mΩ/m
Impedance	nom.100 Ω

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Certifications/Standards

Certifications	cURus
UL style	AWM 21198
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 VW-1 Flame Test 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
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Technical data sheet

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC

Cat. 6A, Profinet Type A



CC-Link IE field

Identification

Type	EL ET (C) PVC (4×(2×AWG22/1)St)C Cat6A
Part No.	104397
Profinet Type	Type A

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • For fixed installation or moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture • Cable design for harsh industrial environments and operating conditions with high noise levels • Application in automation technology, transport and conveyor technology, machine tool manufacture • Compliant with NFPA 79 requirements
Properties	• High protection against electromagnetic interferences (EMI) • Talc free and silicone free • Flame-retardant

Construction

Ethernet Key	S/FTP
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(4×(2×AWG22/1)St)C
Number of conductors	8
Cross-section, metric	0.34 mm ²
Cross-section AWG	AWG 22
Jacket material	PVC
Jacket color	green similar to RAL 6018

Technical data sheet

PVC Network cables · ETHERNET · shielded

Outer Ø	9.6 mm
Outer Ø	0.378 inch
Surface	adhesion-free, matte
Weight	9.6 kg/100 m
Weight	65 Lbs/Mft
Cu-Index	5.3 kg/100 m
Cu-Index	36 Lbs/Mft

Construction Element 1

Element construction	(4×(2×AWG22/1))
Conductor construction	AWG 22/1
Conductor	AWG conductor CU-wire bare
Conductor marking	white/blue • blue • white/orange • orange • white/green • green • white/brown • brown
Conductor insulation	Special Polyolefin
Element shielding	Aluminium laminate Foil shield

Overall construction

Overall stranding	stranded pairs
Inner jacket	PVC
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Silicone-free Flame-retardant

Technical data

Rated voltage	300 V
Rated voltage U _N	600 V AWM 2570 300 V PLTC
Test voltage type	1500 V
Temperature range moving	-5 °C ... +70 °C
Temperature range fixed	-30 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.6 _A

Technical Data Element 1

Technical data sheet

PVC Network cables · ETHERNET · shielded

Certifications/Standards

Certifications	cULus CMG PLTC cURus Class I and II, Div. 2 Class 1 Div. 2 per NEC 501, 502, 505
UL style	AWM 2570
Conformity	CE RoHS REACH TSCA
Burning behavior according to	DIN EN 60332-1-2 DIN EN 60332-3-24 UL 1685 UL FT4

General

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

PVC Bus cables · CAN-BUS · shielded

LÜTZE ELECTRONIC CAN-BUS (C) PVC



Identification

Type	EL BUS(C)PVC (1×2×AWG24/7)VI
Part No.	104386

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems like CAN-BUS • For fixed installation or moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture • Compliant with NFPA 79 requirements
Properties	• High protection against electromagnetic interferences (EMI) • Flexible for easy installation • Talc free and silicone free

Construction

Description	ELECTRONIC CAN-BUS (C) PVC
Number of conductors/cross-section	(1×2×AWG24/7)
Number of conductors	2
Cross-section, metric	0.25 mm ²
Cross-section AWG	AWG 24
Jacket material	Special PVC
Jacket color	violet similar to RAL 4001
Outer Ø	5.8 mm
Outer Ø	0.224 inch
Surface	adhesion-free, matte
Weight	4 kg/100 m
Weight	29 Lbs/Mft
Cu-Index	1.7 kg/100 m
Cu-Index	13 Lbs/Mft

Technical data sheet

PVC Bus cables · CAN-BUS · shielded

Construction Element 1

Element construction	(1×2×AWG24/7)
Conductor	AWG conductor CU-wire bare
Conductor marking	white • brown
Conductor marking standard	DIN 47100
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	Stranded pairs
Overall wrapping	Transparent plastic film
Overall shield	Braid shield Tinned copper wires Optical cover approx. 85 %
Jacket characteristics	Flame-retardant Silicone free

Technical data

Rated voltage	250 V
Test voltage type	AC 1500 V
Temperature range moving	-10 °C ... +70 °C
Temperature range fixed	-40 °C ... +75 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	7.5×D

Technical Data Element 1

Element construction	(1×2×AWG24/7)
Operating capacitance wire-wire	approx.40 pF/m
Loop resistance	≤175.2 mΩ/m
Impedance	nom.120 Ω

Certifications/Standards

Certifications	cULus CMX Meets NEC 392, 800
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL VW-1

Technical data sheet
PVC Bus cables · CAN-BUS · shielded

General

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

PVC Bus cables · CAN-BUS · shielded

LÜTZE ELECTRONIC CAN-BUS (C) PVC



Identification

Type EL BUS(C)PVC (2×2×AWG24/7)VI
Part No. [104387](#)

Product version

Datasheet version 00

Use/Application/Properties

- | | |
|-------------|---|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems like CAN-BUS• For fixed installation or moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture• Compliant with NFPA 79 requirements |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Flexible for easy installation• Talc free and silicone free |

Construction

Description	ELECTRONIC CAN-BUS (C) PVC
Number of conductors/cross-section	(2×2×AWG24/7)
Number of conductors	4
Cross-section, metric	0.25 mm ²
Cross-section AWG	AWG 24
Jacket material	Special PVC
Jacket color	violet similar to RAL 4001
Outer Ø	7.5 mm
Outer Ø	0.291 inch
Surface	adhesion-free, matte
Weight	6 kg/100 m
Weight	46 Lbs/Mft
Cu-Index	3.5 kg/100 m
Cu-Index	24 Lbs/Mft

Technical data sheet

PVC Bus cables · CAN-BUS · shielded

Construction Element 1

Element construction	(2×2×AWG24/7)
Conductor	AWG conductor CU-wire bare
Conductor marking	white • brown • green • yellow
Conductor marking standard	DIN 47100
Conductor insulation	Special Polyolefin

Overall construction

Overall stranding	Stranded pairs
Overall wrapping	Transparent plastic film
Overall shield	Braid shield Tinned copper wires Optical cover approx. 85 %
Jacket characteristics	Flame-retardant Silicone free

Technical data

Rated voltage	250 V
Test voltage type	AC 1500 V
Temperature range moving	-10 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	8×D

Technical Data Element 1

Element construction	(2×2×AWG24/7)
Operating capacitance wire-wire	approx.40 pF/m
Loop resistance	≤175.2 mΩ/m
Impedance	nom.120 Ω

Certifications/Standards

Certifications	cULus CMX Meets NEC 392, 800
Conformity	CE RoHS REACH TSCA
Burning behavior according to	IEC 60332-1

Technical data sheet
PVC Bus cables · CAN-BUS · shielded

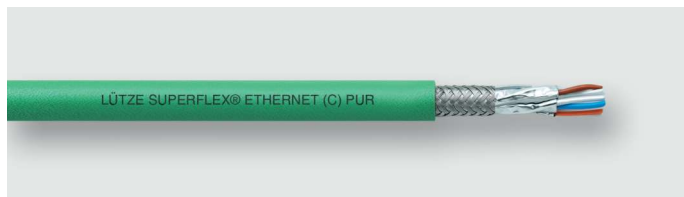
General

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

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® ETHERNET (C) PUR
For highest requirements, torsion-resistant
Cat. 7, Profinet Type C



Identification

Type	SU ET (C) PUR (4×(2×AWG24/7)St)C Cat7
Part No.	104404
Profinet Type	Type C

Product version

Datasheet version	01
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Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture
Properties	• High protection against electromagnetic interferences (EMI) • Silicone free

Construction

Ethernet Key	S/FTP
Description	SUPERFLEX® ETHERNET (C) PUR
Number of conductors/cross-section	(4×(2×AWG24/7)St)C
Number of conductors	8
Cross-section, metric	0.25 mm²
Cross-section AWG	AWG 24
Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	9.4 mm
Surface	adhesion-free, matte
Weight	9.6 kg/100 m
Weight	65 Lbs/Mft

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Cu-Index	4.4 kg/100 m
Cu-Index	30 Lbs/Mft

Construction Element 1

Element construction	(4×(2×AWG24/7)St)C
Conductor construction	AWG 24/7
Conductor	AWG conductor CU-wire tin-plated
Conductor marking	white • blue • white • orange • white • green • white • brown
Conductor insulation	Special Polyolefin
Element shielding	Foil shield in pairs

Overall construction

Overall stranding	stranding with cross element metallized fleece
Overall wrapping	Non-woven material
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant abrasion resistant grease-resistant alkali-resistant lubricant-resistant Silicone-free

Technical data

Rated voltage	300 V
Test voltage type	AC 3000 V
Temperature according to UL	75 °C
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	8×D
Category	Cat.7
Bending cycles	≥1 Mio
Travel distance	≤4.5 m
Speed	≤3 m/s
Acceleration	≤3 m/s ²
Torsion	± 180°/m

Technical Data Element 1

Element construction	(4×(2×AWG24/7)St)C
Insulation resistance at 20 °C	≥500 MΩ×km
Loop resistance	≤175.2 mΩ/m

PUR Network cables · ETHERNET · C-track compatible

Certifications/Standards

General

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

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® SINGLE PAIR ETHERNET (C) PUR



Identification

Type SU SP ET (C) PUR (1×2×AWG26/7)StC
Part No. [104450](#)

Product version

Datasheet version 01

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol• For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Silicone free |

Construction

Description	SUPERFLEX® Single Pair ETHERNET (C) PUR
Number of conductors/cross-section	(1×2×AWG26/7)
Number of conductors	2
Cross-section, metric	0.14 mm ²
Cross-section AWG	AWG 26
Jacket material	PUR
Jacket color	green similar to RAL 6018
Outer Ø	4.7 mm
Surface	matte
Weight	2.5 kg/100 m
Cu-Index	1.5 kg/100 m

Construction Element 1

Element construction (1×2×AWG26/7)

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Conductor construction	AWG 26/7
Conductor	AWG conductor CU-wire bare
Conductor marking	white • blue
Conductor insulation	Special Polyolefin
Stranding	conductors stranded in pairs
Wrapping	Non-woven material

Overall construction

Overall stranding	stranded pairs layer pitch optimised
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Halogen free Silicone-free low-adhesion

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	8×D
Bending cycles	≥3 Mio
Travel distance	≤3.5 m
Speed	≤3 m/s
Acceleration	≤3 m/s ²

Technical Data Element 1

Element construction	(1×2×AWG26/7)
Insulation resistance at 20 °C	≥500 MΩ×km
Operating capacitance wire-shield	approx.50 pF/m
Loop resistance	≤280 mΩ/m
Impedance	nom.100 Ω
HF Characteristics according to	IEC 61156-12

Certifications/Standards

Technical data sheet

PUR Network cables · ETHERNET · C-track compatible

Oil resistant according to	DIN EN 50363-10-2 DIN EN 60811-404
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
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