

PUR Network cables · ETHERNET · C-track compatible

LÜTZE SUPERFLEX® SINGLE PAIR ETHERNET (C) PUR



Application

- For the cabling 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 active and passive interference resistance (EMC)
- Silicone free
- Halogen free
- RoHS-compliant

Technical data

Rated voltage	300 V
Test voltage	AC 2000 V
Impedance	nom. 100 Ω
Operating capacitance wire-shield	approx. 50 pF/m
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
Burning behavior according to	IEC 60332-1-2
Oil resistant according to	DIN EN 50363-10-2 DIN EN 60811-404
Halogen free according to	IEC 60754-1 VDE 0472-815
Conformity	CE RoHS

Construction

- Conductor: CU-wire bare, AWG conductor
- Conductor insulation: Special Polyolefin
- Overall shield: plastic-laminated aluminum foil, Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: PUR
- Surface: matt
- Jacket color: green RAL 6018

Part-No.	Number of strands/cross-section/strand colors	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
104450	S* (1×2×AWG26/7) stranded pairs layer pitch optimised white, blue	4.7	2.5	1.5

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

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Application

- For the cabling 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 active and passive interference resistance (EMC)
- Silicone free
- Halogen free
- RoHS-compliant
- Torsion-resistant

Technical data

Rated voltage	300 V
Test voltage	AC 2000 V
Impedance	nom. 100 Ω
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
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
Conformity	CE RoHS REACH

Construction

- Conductor: CU-wire bare, AWG conductor
- Conductor insulation: Special Polyolefin
- Overall stranding: stranding with cross element
- Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: PUR
- Surface: adhesion-free, matt
- Jacket color: green RAL 6018

Part-No.	Number of strands/cross-section/strand colors	Torsion	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
SUPERFLEX Industrial ETHERNET, Cat. 6A, CU-wire bare					
104401 S*	(4×2×AWG24/7)StC AWM 21198 cURus Cat.6A SF/UTP stranding with cross element white/blue, blue, white/orange, orange, white/green, green, white/brown, brown	± 180°	8.9	8.8	4.0
SUPERFLEX Industrial ETHERNET, Cat. 7, CU-wire tin-plated					
104404 S*	(4×(2×AWG24/7)St)C CMX Cat.7 S/FTP stranding with cross element white, blue, white, orange, white, green, white, brown	± 180°	9.4	9.6	4.4

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Application

- For the cabling 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 active and passive interference resistance (EMC)
- Silicone free
- Halogen free
- RoHS-compliant

Technical data

Rated voltage	300 V
Test voltage	AC 1500 V
Impedance	nom. 100 Ω
Operating capacitance wire-wire	approx. 48 pF/m
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
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
Conformity	CE RoHS REACH

Construction

- Conductor: AWG conductor, CU-wire bare
- Conductor insulation: Special Polyolefin
- Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: PUR
- Surface: adhesion-free, matt
- Jacket color: green RAL 6018

Part-No.		Number of strands/cross-section/strand colors	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
SUPERFLEX Industrial Ethernet/ProfiNet/Ethercat, FC					
104302	S*	(2×2×AWG22/19)C CMX cULus Cat.5e S/UTQ star quad stranding blue, white, yellow, orange	6.6	6.3	3.2
104303	S*	(2×2×AWG22/7)C CMX cULus Cat.5 S/UTQ star quad stranding blue, white, yellow, orange	6.5	6.5	3.0
SUPERFLEX Industrial Ethernet/Ethernet IP					
104379	S*	(2×2×AWG26/19)StC AWM 21198 cURus Cat.5e SF/UTQ star quad stranding white, blue, yellow, orange	5.3	3.5	1.8
104337	S*	(4×2×AWG24/19)C AWM 21198 cURus Cat.5e S/UTP stranded pairs white/blue, blue, white/orange, orange, white/green, green , white/brown, brown	7.8	8.5	4.4
104396	S*	(4×2×AWG26/19)StC AWM 21198 cURus Cat.5e SF/UTP stranded pairs white/blue, blue, white/orange, orange, white/green, green , white/brown, brown	6.7	5.1	2.8
104347	S*	(4×2×AWG26/19)StC CMX Cat.6 SF/UTP stranded pairs white/blue, blue, white/orange, orange, white/green, green , white/brown, brown	7.9	7.4	3.4

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PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC



Application

- For the cabling of industrial field bus systems with the globally accepted TCP/IP protocol
- For fixed installation or moving use without continuous flexing in automation technology, transport, conveyor technology and machine tools

Properties

- High active and passive interference resistance (EMC)
- Silicone free
- RoHS-compliant

Technical data

Rated voltage	300 V
Test voltage	AC 1500 V
Impedance	nom. 100 Ω
Loop resistance	AWG 22: ≤ 115 mΩ/m AWG 24: ≤ 165 mΩ/m AWG 26: ≤ 273 mΩ/m
Operating capacitance wire-wire	approx. 48 pF/m
Temperature range moving	-10 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	10×D
Burning behavior according to	IEC 60332-3-24 CMG: FT4 UL 1685
Conformity	CE RoHS REACH

Construction

- Conductor: AWG conductor, CU-wire bare
- Conductor insulation: Special Polyolefin
- Overall shield: Foil shield, Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: PVC
- Surface: adhesion-free, matt
- Jacket color: green RAL 6018

Part-No.		Number of strands/cross-section/strand colors	Approvals	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
ELECTRONIC Industrial Ethernet/Profinet/EtherCat						
104301	S*	(2×2×AWG22/1)StC AWM 20201 Cat.5e SF/UTQ star quad stranding white, yellow, blue, orange	PLTC CMG cULus cURus	6.5	6.8	3.2
104307	S*	(2×2×AWG22/7)StC AWM 20201 Cat.5e SF/UTQ star quad stranding white, yellow, blue, orange	PLTC CMG cULus cURus	6.5	6.9	3.2
104397	S*	(4×(2×AWG22/1)St)C AWM 2570 Cat.6 _A S/FTP stranded pairs white/blue, blue, white/ orange, orange, white/green, green, white/brown, brown	PLTC CMG cULus cURus	9.6	9.6	5.3
ELECTRONIC Industrial Ethernet/Ethernet IP						
104335	S*	(4×2×AWG26/7)StC Cat.5e SF/UTP stranded pairs white/blue, blue, white/oran- ge, orange, white/green, green, white/brown, brown	CMG cULus	6.3	5.5	3.0
104336	S*	(4×2×AWG24/7)StC Cat.5e SF/UTP stranded pairs white/blue, blue, white/oran- ge, orange, white/green, green, white/brown, brown	CMG cULus	7.3	6.9	3.8
104338	S*	(4×(2×AWG26/7)St)C Cat.6 _A S/FTP stranded pairs white/blue, blue, white/oran- ge, orange, white/green, green, white/brown, brown	CMG cULus	6.4	5.8	3.3
104331	S*	(4×(2×AWG26/7)St)C Cat.7 S/FTP stranded pairs white/blue, blue, white/oran- ge, orange, white/green, green, white/brown, brown	CMG cULus	6.4	5.8	3.3

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

PUR Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC



- Application**
- For the cabling of industrial field bus systems with the globally accepted TCP/IP protocol
 - For fixed installation or moving use without continuous flexing in automation technology, transport, conveyor technology and machine tools

- Properties**
- High active and passive interference resistance (EMC)
 - Silicone free
 - RoHS-compliant

Technical data	
Rated voltage	300 V
Test voltage	AC 1000 V
Impedance	nom. 100 Ω
Loop resistance	≤ 114.8 mΩ/m
Operating capacitance wire-wire	approx. 50 pF/m
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
UL style	AWM 2570
Burning behavior according to	DIN EN 60332-1-2 DIN EN 60332-3-24 UL 1685 UL FT4
Conformity	CE RoHS REACH
Approvals	cULus CMG CMX Outdoor PLTC cURus

- Construction**
- Conductor: AWG conductor, CU-wire tin-plated
 - Conductor insulation: Special Polyolefin
 - Stranding: conductors stranded in pairs
 - Overall shield: aluminium-laminated film shield, Braid shield, Tinned copper wires, optical cover approx. 85%
 - Jacket material: PVC
 - Jacket color: green RAL 6018

Part-No.	Number of strands/cross-section/strand colors	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
104350 S*	(4×2×AWG22/7) AWM 2570 Cat.5e SF/UTP white/blue, blue, white/orange, orange, white/green, green , white/brown, brown	8.6	9.2	4.8

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PUR Bus cables · Profibus · C-track compatible · shielded

LÜTZE SUPERFLEX® Profibus (C) PUR For highest requirements



Application

- For the cabling 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 automation technology, transport and conveyor technology, machine tool manufacture

Properties

- High active and passive interference resistance (EMC)
- Silicone free
- Halogen free
- RoHS-compliant

Technical data

Rated voltage	300 V
Test voltage	AC 1500 V
Loop resistance	≤ 165 mΩ/m
Impedance	nom. 150 Ω
Operating capacitance wire-wire	approx. 30 pF/m
Temperature range moving	-30 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	7.5×D Fast Connection FC15×D
Minimum bending radius fixed	5×D Fast Connection FC7.5×D
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 UL 1581 Part VW-1 Flame Test UL FT1
Halogen free according to	DIN EN 60754-1 IEC 60754-1
Conformity	CE RoHS REACH
Approvals	CMX cULus cURus

Construction

- Conductor: AWG conductor, CU-wire bareWire AWG 24/19 = 0.64Ø
- Conductor insulation: Special Polyolefin
- Inner jacket: PE for version with fast connection FC
- Overall shield: Aluminium laminate, Foil shield, Braid shield, Tinned copper wires
- Jacket material: PUR
- Surface: adhesion-free, matt
- Jacket color: violet RAL 4001

Part-No.	Number of strands/cross-section/strand colors	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
Profibus, highly flexible UL/CMX, AWM 21198 300 V				
104265 S*	(1×2×AWG24/19)	8.0	6.5	3.0
Profibus Fast Connection FC UL/CMX, AWM 21198 300 V				
104287 S*	(1×2×AWG24/19)	8.0	8.0	3.0
Profibus ET200 UL AWM 21198 300 V				
104275 S*	(3G0,75+(1×2×AWG24/19))	9.8	14.4	6.6

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

* S Article from stock
A Available with a lead time
R Available on request

PVC Bus cables · Profibus · shielded

LÜTZE ELECTRONIC Profibus (C) PVC



Application

- For the cabling 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 continuous flexing in the automation technology, transport and conveyor technology, machine tool manufacture

Properties

- High active and passive interference resistance (EMC)
- Silicone free
- RoHS-compliant

Technical data

Rated voltage	300 V
Test voltage	AC 1500 V
Loop resistance	AWG 22: ≤ 110 mΩ/m AWG 24: ≤ 165 mΩ/m
Impedance	nom. 150 Ω
Operating capacitance wire-wire	approx. 30 pF/m
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
Burning behavior according to	IEC 60332-1-2 CMX: FT1 UL 1581 UL VW-1 CMG: FT4 UL 1685
Conformity	CE RoHS REACH
Approvals	CMX cULus cURus

Construction

- Conductor: AWG conductor, CU-wire bare
- Conductor insulation: Special Polyolefin
- Inner jacket: PVC for version with fast connection
- Overall shield: Aluminium laminate, Foil shield, Braid shield, Tinned copper wires
- Jacket material: Special PVC
- Jacket color: violet RAL 4001

Part-No.	Number of strands/cross-section/strand colors	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
Profibus DP/FMS/FIP, Flexible UL/CMG 75 °C, AWM 20201 600 V				
104344	S* (1×2×AWG24/7) red, green	8.0	7.2	3.0
Profibus DP/FMS/FIP, Fast Connection FC UL/CMG, AWM 20201 600 V				
104293	S* (1×2×AWG22/1) red, green	8.0	7.6	3.0

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Bus cables · Profibus · shielded

LÜTZE ELECTRONIC Profibus (C) PVC



Application

- For the cabling of industrial field bus systems like PROFIBUS DP, F.I.P.
- With solid conductor AWG22/1 for fixed wiring or with stranded conductor for moving applications without continuous flexing in the automation technology, transport and conveyor technology, machine tool manufacture

Properties

- High active and passive interference resistance (EMC)
- Silicone free
- RoHS-compliant

Technical data

Rated voltage	250 V
Test voltage	AC 1500 V
Loop resistance	AWG 22: ≤ 110 mΩ/m AWG 18: ≤ 39 mΩ/m
Impedance	AWG 22: nom. 150 Ω AWG 18: nom. 100 Ω
Operating capacitance wire-wire	AWG 22: approx. 30 pF/m AWG 18: approx. 52 pF/m
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
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2
Conformity	CE RoHS

Construction

- Conductor: AWG conductor, CU-wire bare
- Conductor insulation: Special Polyolefin
- Overall shield: Foil shield, Braid shield, Tinned copper wires, optical cover approx. 70%
- Jacket material: PVC
- Jacket color: violet RAL 4001, blue RAL 5015, black RAL 9005

Part-No.	Number of strands/cross-section/strand colors	Jacket color	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
Profibus DP/FMS/FIP					
104214 S*	(1×2×AWG22/7)StC red, green	violet RAL 4001	7.8	6.8	3.0
Profibus DP/FMS/FIP with inner jacket, halogen-free jacket (HM)					
104267 S*	(1×2×AWG22/1)StC FC red, green	violet RAL 4001	8.0	7.6	3.0

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PUR Bus cables · DeviceNet™ · C-track compatible

LÜTZE SUPERFLEX® DeviceNet™ (C) PUR For highest requirements



Application

- For the wiring of industrial devices, sensors, control devices (SPS), valves
- 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

- High active and passive interference resistance (EMC)
- Silicone free
- RoHS compliant

Technical data

Rated voltage	300 V
Test voltage	AC 1500 V
Impedance	nom. 120 Ω
Operating capacitance wire-wire	approx. 40 pF/m
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
Burning behavior according to	IEC 60332-1-2 DIN EN 60332-1-2 UL 1581 Part VW-1 Flame Test UL FT1
Conformity	CE RoHS REACH
Approvals	cULus CMX

Construction

- Conductor: CU-wire tin-plated
- Conductor insulation: foamed polyolefin
- Overall stranding: elements stranded together
- Overall wrapping: Fleece taping
- Overall shield: Braid shield, Tinned copper wires, optical cover approx. 80%BUS element statically shielded
- Jacket material: PUR
- Surface: adhesion-free, matt
- Jacket color: violet RAL 4001

Part-No.		Number of strands/cross-section/strand colors	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
DeviceNet™ Thick UL/CMX					
104198	R*	((2×AWG18)+(2×AWG16)) white, blue red, black	12.2	19.5	9.4
DeviceNet™ Thin UL/CMX					
104289	S*	((2×AWG24)+(2×AWG22)) white, blue red, black	7.0	6.2	3.6

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

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

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



Application

- 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

Properties

- High active and passive interference resistance (EMC)
- Silicone free
- Halogen free
- RoHS-compliant

Technical data

Rated voltage	300 V
Test voltage	AC 850 V
Impedance	nom. 120 Ω
Operating capacitance wire-wire	approx. 40 pF/m
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
Burning behavior according to	DIN EN 60332-1-2 IEC 60332-1-2 UL VW-1
Oil resistant according to	IEC 60811-404 4 days at 100 °C
Halogen free according to	DIN EN 60754-1 IEC 60754-1
Conformity	CE RoHS
Approvals	CMX cULus

Construction

- Conductor: AWG conductor, CU-wire bare
- Conductor insulation: Special Polyolefin
- Overall stranding: stranded pairs
- Overall wrapping: Fleece taping
- Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: PUR
- Jacket color: violet RAL 4001

Part-No.		Number of strands/cross-section/strand colors	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
CAN-BUS UL/CMX, 40 m max.					
104001	S*	(2×2×AWG24/19) white, brown, green , yellow	8.4	7.2	3.3
104101	S*	(1×2×AWG24/19) white, brown	6.5	4.4	2.4

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PVC Bus cables · CAN-BUS

LÜTZE ELECTRONIC CAN-BUS (C) PVC



Application

- For wiring of industrial field bus systems like CAN-BUS
- For fixed wiring or moving applications without continuous flexing in the automation technology, transport and conveyor technology, machine tool manufacture

Properties

- High active and passive interference resistance (EMC)
- Silicone free
- RoHS-compliant

Technical data

Rated voltage	250 V
Test voltage	AC 1500 V
Loop resistance	AWG 24: ≤ 175.2 mΩ/m AWG 22: ≤ 110.8 mΩ/m
Impedance	nom. 120 Ω
Operating capacitance wire-wire	approx. 40 pF/m
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
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL VW-1
Conformity	CE RoHS
Approvals	cULus CMX

Construction

- Conductor: AWG conductor, CU-wire bare
- Conductor insulation: Special Polyolefin
- Overall stranding: stranded pairs
- Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: Special PVC
- Surface: adhesion-free, matt
- Jacket color: violet RAL 4001

Part-No.		Number of strands/cross-section/strand colors	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
CAN-BUS UL/CMX, 40 m max.					
104386	S*	(1×2×AWG24/7) white, brown	5.8	4.0	1.7
104387	S*	(2×2×AWG24/7) white, brown, green, yellow	7.5	6.0	3.5

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