Technical data sheet

PUR Bus cables · DeviceNet™ · C-track compatible · 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	• 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	• 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
Weight	19.5 kg/100 m
Weight	43 Lbs/Mft

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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 standard	IEC 62026-3
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 standard	IEC 62026-3
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 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)

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