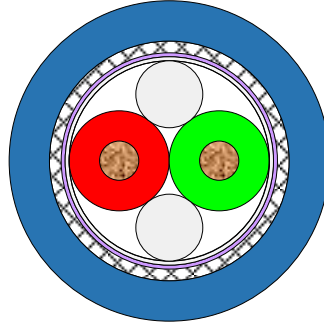


PROFIBUS



Design

Wire

Bare copper wire ø 1.0 mm
 Insulation of foamed Polyethylene (PE) with skin ø 2.55 mm

Core

2 wires, RD and GN twisted to a pair with fillers in gaps
 Plastic tape, overlapped
 Alulaminat foil overlapped, applied longitudinally
 Shield braiding of tinned copper wires 0.15 mm dia
 Coverage about 90% ø 5.9 mm

Jacket

Polyvinylchloride (PVC) BU
 Wall thickness about 0.8 mm ø (7.5 +0.2 -0.25) mm

Printing: "sequential length in metres" BizLink Special Cables Germany PROFIBUS FMS L45467-J20-C85 *
 E119100 (UL) CMX 75°C (SHIELDED) AWG 18 * "internal lot number"

Electrical data at 20°C

Conductor resistance	≤	23	Ohm/km
Insulation resistance	≥	10	MOhm*km
Capacitance	≤	80	nF/km
Inductance (31.25kHz)	≈	650	µH/km
Operating voltage (peak)	≤	300	V
Test voltage (wire/wire/screen rms 50Hz 1 min)		1500	V
Characteristic impedance (31.25 kHz)		(100 ±20)	Ohm
Attenuation (39 kHz)	≤	3	dB/km
Capacity unbalanced	≤	2	nF/km
Group propagation time distortion (7.9....39 KHz)	≤	1.7	µs/km

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Mechanical and thermal characteristics

Conductor material acc. to DIN EN 13602 Cu-ETP-A...

Screen material acc. to DIN EN 13602 Cu-ETP-A...-B

Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3)

Jacket material acc. to DIN VDE 0207, compoundtype YM5

Oil resistant acc. to UL 758 Sec. 15 (60°C)

Flame retardant acc. to UL 1581, Sec. 1080 (VW-1)

Sunlight resistant acc. to UL 1581 Sec.1200

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Application / Special feature

Flame retardant acc. to IEC 60332-1-2

Permissible temperature range : -20 °C (-4 °F) up to 80 °C (176 °F)

Min. bending radius allowed : repeated 7,5X ø , single 5X ø

PVC weight with Phthalate : 23.7 kg/km

PVC weight without Phthalate : 0.0 kg/km

Weight about : 77 kg/km

Designation of order

L45467-J20-C85 201449 1000m on non-returnable reel

L45467-J20-C85-L6 206347 500m on non-returnable reel

02YS(ST)CY 1X2X1.0/2.55-100 BL OE FR

Product has not been tested and classified according to the CPR (EU/305/2011).
The product shall not be permanently installed in buildings in the EU.