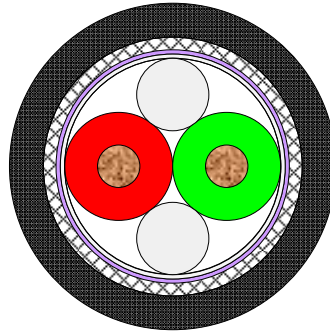


PROFIBUS



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

Alulamine foil overlapped, applied longitudinally

Shield braiding of tinned copper wires 0.15 mm dia

Coverage about 90%

ø 5.9 mm

Jacket:

Polyvinylchloride (PVC) BK

Wall thickness about 0.8 mm

ø (7.5 +0.2 -0.25) mm

Printing: LEONI L PROFIBUS FMS L45467-J20-C75 * E119100 (UL) CMX 75°C (SHIELDED) AWG 18 *

"internal lot number" + marking every meter, Textintervals about 1000 mm

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

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

FILE 119100 Vol.1 Sec.8 Page 1 (CMX)

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 \emptyset , single 5X \emptyset

PVC weight with Phthalate : 23.3 Kg/km

PVC weight without Phthalate : 0.0 Kg/km

Weight about : 77 Kg/km

Designation of order:

L45467-J20-C75

201155

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

1000 m on non-returnable reel