

Design

Wire

Bare copper wire ø 0.65 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
 Alulaminat foil overlapped, Alu outside
 Shield braiding of tinned copper wires 0.15 mm dia
 Coverage about 60% ø 6.0 mm
 Slitting cord

Jacket:

Thermoplastic copolymer (FRNC) VT
 Wall thickness about 1.0 mm ø (8.0 ±0.4) mm

Printing: LEONI L PROFIBUS PLUS FRNC L2/F.I.P. L45467-G16-C206
 + marking every meter
 Textintervals about 1000 mm

Electrical data at 20°C

Loop-Resistance	≤	110	Ohm/km
Insulation-Resistance	≥	16000	MOhm*km
Characteristic Impedance			
3 - 20 MHz		(150 ± 15)	Ohm
38.4 kHz		(185 ± 18.5)	Ohm
9.6 kHz		(270 ± 27)	Ohm

Attenuation

16 MHz	<	42	dB/km
4 MHz	<	22	dB/km
38.4 kHz	<	4	dB/km
9.6 kHz	<	2.5	dB/km
Capacitance		28	nF/km
Capacitance unbalance to ground	≤	1500	pF/km
Operating Voltage (Peak)	≤	100	V
Test voltage		3600	V DC 3 sec

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Mechanical and thermal characteristics

Conductor material acc. to DIN EN 13602 Cu-ETP1-A...
Screen material acc. to DIN EN 13602 Cu-ETP1-A...-B
Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3) (02Y)
Jacket material acc. to DIN EN 50290-2-27 (HD 624.7)

Other characteristics:

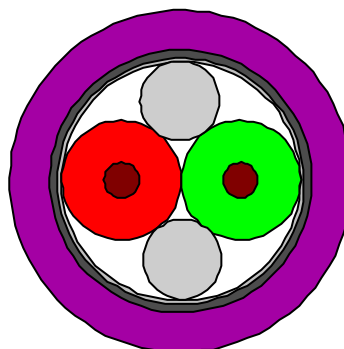
Flame test acc. to IEC 60332-3-24 (Category C)
Corrosivity of fire gases acc. to IEC 60754-2
Determination of the amount of halogen acid gas acc. IEC 60754-1 0.6 mg/g
Smoke-density acc. to IEC 61034
Sunlight resistant acc. to UL 1581 Sec.1200
EN 50170

Permissible temperature range: -25°C up to +60°C

Bending Diameter : ≥ 150 mm
Pulling force with : max. 100 N
Weight about : 66 Kg/km

Designation of order:

L45467-G16-C206
201145
02YS(ST)CH 1X2X0.64/2.55-150 VI FRNC KF25
1000 m non returnable reel



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