

Design

Wire :

Bare copper wire	ø 0.64 mm
Insulation of foamed Polyethylen (PE) with skin	ø 2.55 mm
Flame resistance foil, overlapped	ø 2.75 mm

Core:

2 wires, RD and GN twisted to a pair with fillers in gaps	
Flame resistance foil, overlapped	
Alulaminat foil, overlapped	
Shield braiding of tinned copper wires 0.15 mm dia	
Coverage about 65%	
Flame resistance foil, overlapped	ø 6.8 mm

Jacket:

Thermoplastic copolymer (FRNC) GY	
Wall thickness about 1.0 mm	ø (8.8 ±0.4) mm

Printing: LEONI L PROFIBUS L2/F.I.P. ISOLATIONSERHALT 0472/90
 + marking every meter
 Textintervals about 1000 mm

Electrical data at 20°C

Loop resistance	≤	110	Ohm/km
Screen resistance	≤	9.5	Ohm/km
Insulation resistance	≥	16000	MOhm*km
Characteristic Impedance			
3 - 20 MHz		(150 ± 15)	Ohm
31.25 - 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

Inductance	31.25 kHz	≈	750	µH/km
Capacitance	1 kHz	≈	28.5	nF/km
Capacitance unbalance to ground		≤	1500	pF/km
Operating Voltage (Peak)		≤	100	V
rel. velocity of propagation		≈	81	%
Test voltage		=	3600	V DC 3 sec

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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) (02Y)
- | Jacket material acc. to DIN EN 50290-2-27 (HD 624.7)
- | Insulation effect under fire conditions acc. to DIN VDE 0472, part 814, FE90

Application / Special feature:

- | Profibus with Insulation effect under fire conditions

Permissible temperature range : - 25°C up to + 70°C
 Bending Diameter : ≥ 150 mm
 Pulling force with : ≤ 100 N
 Weight about : 87 Kg/km

Designation of order:

L45467-G16-C266
 202319
 02YS(ST)CH 1X2X0.64/2.55-150 GR FRNC FE90
 1000 m on non-returnable reel

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