

Design

Wire :

Bare copper wire ø 0.65 mm
 Insulation of foamed Polyethylen (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 52%
 Slitting cord

Jacket:

Polyvinylchloride (PVC) VT ø (8.0 ±0.4) mm
 Wall thickness about 1.0 mm

Printing: LEONI L PROFIBUS PLUS L2/F.I.P. L45467-G16-C145 * 22AWG (SHIELDED) (UL)
 E119100 CMG 75°C or PLTC or AWM20201 600V FT4 SUN RES
 + 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
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	nF/km
Capacitance unbalance to ground		≤	1500	pF/km
Operating Voltage (Peak)		≤	100	V
UL-Rating			600	V
Test voltage			3600	V DC 3 sec

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