

**Design**

**Wire:**

Bare copper wire ø 0.65 mm (0,026 in)  
 Insulation of foamed Polyethylen (PE) with skin ø 2.55 mm (0,100 in)

**Core:**

2 wires, RD and GN twisted to a pair  
 Plastic tape, overlapped  
 Inner jacket: Polyvinylchloride (PVC) WH ø 5.4 mm (0.213 in)  
 Alulaminat foil overlapped, applied longitudinally  
 Shield braiding of tinned copper wires 0.15 mm dia  
 Coverage about 55% ø 6.2 mm (0,244 in)

**Jacket:**

Polyethylen (PE) BK  
 Wall thickness about 0.9 mm ø (8 ±0.4) mm (0.315 ±0.016 in)

Printing: LEONI L PROFIBUS L2/F.I.P. ES L45467-G16-C246  
 + 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	≈	1000	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 characteristic**

Conductor material acc. to DIN 40500 part 4, E-Cu58 F21  
 Screen material acc. to DIN 40500 part 5, E-Cu58 F21-V1  
 Insulating material acc. to DIN VDE 0819, part 103, table 2/A (HD 624.3)  
 Jacket material acc. to DIN VDE 0819, part 104, table 1/2-L/MD (HD 624.4)  
 Cold bend test acc. DIN VDE 0473 part 811-1-4 -40° Grad  
 Jacket material acc. to DIN EN 50290-2-24 (VDE 0819), table 1/2-L/MD (HD 624.4)

**Application / Special feature:**

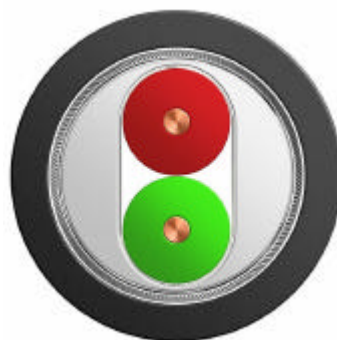
UV-resistant  
 Limited mineral oil and fats resistance

Permissible temperature range : -40°C (-104°F) up to +60°C (+140°F)  
 Bending Diameter : ≥ 150 mm  
 Pulling force with : ≤ 100 N

PVC weight with Phthalate : 17.9 Kg/km  
 PVC weight without Phthalate : 0.0 Kg/km  
 Weight about : 67 Kg/km (45 lb/1000ft)

**Designation of order:**

L45467-G16-C246  
 202263  
 02YSY(ST)C2Y 1X2X0.64/2.55-150 KF40  
 1000 m (3281 ft) on non-returnable reel



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