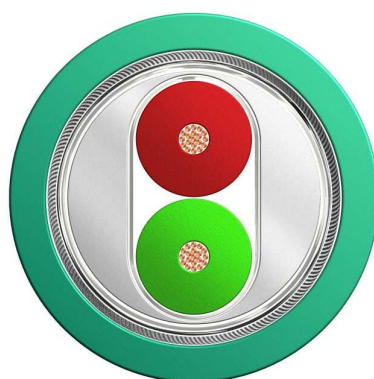


FieldLink®

PROFIBUS

Trailing cable



Design

Wire:

Stranded bare copper wire 19 X 0.14 ø 0.64 mm (0.025 in)
 Insulation of foamed Polyethylene (PE) ø 2.56 mm (0,10 in)

Core:

2 wires, RD and GN twisted to a pair
 Plastic tape, overlapped
 Jacket: Polyvinylchloride (PVC) ø 5.4 mm (0,213 in)
 Plastic tape, overlapped
 Alulaminat foil overlapped
 Shield braiding of tinned copper wires 0.15 mm dia
 Coverage about 70% ø 6.3 mm (0,25 in)

Jacket:

Polyurethane (PUR) (PETROL)
 Wall thickness about 0.8 mm ø (8.0 ±0.4) mm (0,315 ±0,016 in)

Printing: LEONI L PROFIBUS L2/F.I.P. ES SCHLEPPFAEHIG L45467-G16-C98 * E119100 (UL)
 CMX 75°C (SHIELDED) AWG 23 * "internal lot number" + marking every meter
 (The gap between the text is filled out with lengthways line "-----").
 Textintervals about 1000 mm

Electrical data at 20°C

Loop resistance	≤	133	Ohm/km
Screen resistance	≤	15	Ohm/km
Insulation resistance	≥	16000	MOhm*km
Characteristic Impedance		(150 ± 15)	Ohm
		3 - 20	MHz

31.25 - 38.4	kHz	(185 ± 18.5)	Ohm
9.6	kHz	(270 ± 27)	Ohm

Attenuation

16	MHz	≤	49	dB/km
4	MHz	≤	25	dB/km
38.4	kHz	≤	4	dB/km
9.6	kHz	≤	3	dB/km
Inductance	31.25 kHz	≈	1000	μH/km
Capacitance	1 kHz		28	nF/km
Capacitance unbalance to ground		≤	1500	pF/km
Operating voltage (effective value)		≤	100	V
rel. velocity of propagation		≈	81	%
Test voltage			3600	V DC 3 sec

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. F45052-F5100 (similar to DIN VDE 0282)
 Cold bend test acc. DIN IEC 60811-1-4 -40° C
 Flame retardant acc. to IEC 60332-1-2

Trailing cable for following requirements

- 3 million bending cycles
- bending radius 15x max. diameter
- acceleration 5 m/s²
- not adapted for garland mounting
- min. bending diameter allowed: single 5X ø

FILE E119100 Vol.1 Sec.8 Page 1

Application / Special feature:

Mineral oil and fats resistance
 Sunlight resistant acc. to UL 1581 Sec.1200

Permissible temperature range

Transport, installation and operating: -40 °C (-40 °F) up to 80 °C (176 °F)

Tensile strength	: ≤	100 N
PVC weight with Phthalate	: 22,7	Kg/km
PVC weight without Phthalate	: 0.0	Kg/km
Weight about	: 77	Kg/km (51,6 lb/1000ft)

Designation of order:

L45467-G16-C98 / 202225 / 1000 m (3281 ft) on non-returnable reel
 L45467-G16-C98-L6 / 219798 / 500 m (1640 ft) on non-returnable reel

02YY(ST)C11Y 1X2X0.65/2.56-150 LI KF40 FR PETROL