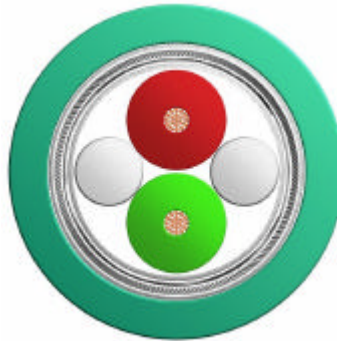


# PROFIBUS

## Trailing cable



### Design

**Wire:**

Stranded bare copper wire 19 X 0.14 ø 0.64 mm (0.025 in)  
 Insulation of foamed Polyethylene (PE) with skin ø 2.56 mm (0.101 in)

**Core:**

2 wires RD and GN twisted to a pair with fillers in gaps  
 Plastic tape, overlapped  
 Alulaminat foil overlapped  
 Shield braiding of tinned copper wires 0.15 mm dia  
 Coverage about 65%  
 Plastic tape, overlapped ø 6.5 mm (0.256 in)

**Jacket:**

Polyurethane (PUR) PETROL  
 Wall thickness about 1.0 mm ø (8.5 ±0.4) mm (0.335 ±0.016 in)

Printing: LEONI L PROFIBUS L2/F.I.P. SCHLEPPFAEHIG L45467-G16-C88 \* (UL)  
 CMX 75°C (SHIELDED) AWG 24 \* + 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				
	3 - 20	MHZ	(150 ± 15)	Ohm
	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

Capacitance	1 kHz		28	nF/km
Capacitance unbalance to ground		≤	1500	pF/km
Operating voltage (effective value)		≤	100	V
UL-Rating			300	V
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  
 Flame retardant acc. to IEC 60332-1-2

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**Other characteristics:**

- Smoke-density acc. to IEC 61034
- Oil resistant acc. to DIN EN 60811-2-1
- Halogen free acc. DIN VDE 0472, part 815/A
- Sunlight resistant acc. to UL 1581 Sec.1200

**Trailing cable for following requirements**

- 5 million bending cycles
- bending radius 7.5x max.  $\varnothing$
- acceleration 4 m/s<sup>2</sup>
- not adapted for garland mounting
- min. bending diameter allowed: single 5X  $\varnothing$

Handling-/Installation and operating temperature: -40°C up to +80°C  
 Pulling force with ≤ 70N

Weight about : 62 Kg/km

**Designation of order:**

L45467-G16-C88  
 201146  
 02YS(ST)C11Y 1X2X0.64/2.55-150 LI FRNC PETROL  
 1000 m non-returnable reel

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