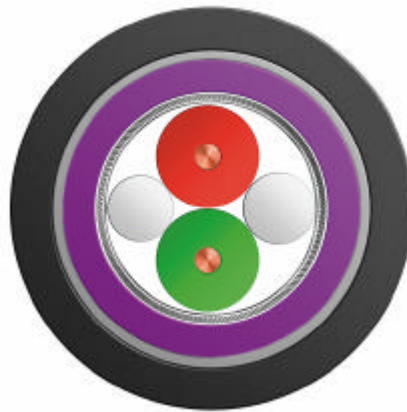


FieldLink®

PROFIBUS

with rodent protection



Design

Wire

Bare copper wire ø 0.65 mm (0,03 in)
 Insulation of foamed Polyethylene (PE) with skin ø 2.55 mm (0,10 in)

Core:

2 wires, RD and GN twisted to a pair with fillers in gaps
 Alulaminat foil overlapped
 Shield braiding of tinned copper wires 0.15 mm dia
 Coverage about 60% ø 5.9 mm (0,23 in)
 Inner-jacket: Polyvinylchloride (PVC) VT
 Wall thickness about 1.0 mm ø (8.0 ±0.4) mm (0,315 ±0,016 in)

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

Armoring: 2 layer galvanzied steel tape 12X0.1
 intercalated tapes

Jacket:

Polyethylene (PE) BK
 Wall thickness about 1.2 mm ø (10.8 ±0.5) mm (0,425 ±0,020 in)

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 Transfer to third party only by authority of LEONI special cable GmbH
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Printing: LEONI L PROFIBUS L2/F.I.P.
 + 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 (effective value)			≤	100	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
 Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3) (02Y)
 Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compound type TM52 (HD 624.2)
 Jacket material acc. to DIN EN 50290-2-24 (VDE 0819), table 1/2-L/MD (HD 624.4)

Other characteristics:
 Bus cable with rodent protection

UV-resistant
 Limited mineral oil and fats resistance

Permissible temperature range : -40°C (-104°F) up to +70°C (+158°F)
 Min. bending radius allowed : repeated 10X ø , single 5X ø
 PVC weight with Phthalate : 32.6 Kg/km
 PVC weight without Phthalate : 0.0 Kg/km
 Weight about : 129 Kg/km (87 lb/1000ft)

Designation of order:

L45467-G16-C276
 203008
 02YS(ST)CYB2Y 1X2X0.64/2.55-150 (2B0.1VZK)
 1000 m (3281 ft) on reel