

FieldLink[®]

Profibus High-Temperature



Design

Wire:

Bare copper wire
Insulation of foamed Fluorethylen

∅ 0.64 mm (0.025 in)
∅ 2.55 mm (0,100 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%

∅ 5.9 mm (0,232 in)

Jacket:

Perfluorethylenpropylen, FEP VT
Wall thickness about 0.65 mm

∅ (7.2 ±0.25) mm (0,283 ±0,010 in)

Printing: LEONI L PROFIBUS L2/F.I.P. High-Temperature "sequential length in metres"
Text intervals 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
Capacitance		≈	28	nF/km
Operating voltage (effective value)		≤	250	V
Test voltage (DC 3 sec)			3600	V

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 F45050-F5033
Jacket material acc. to DIN VDE 0207, compoundtype 6YM1

Application / Special feature:

Oil- resistant
UV- resistant

Permissible temperature range : -50 °C (-58 °F) up to 180 °C (356 °F)
min. bending radius allowed : repeated 7X \varnothing , single 5X \varnothing
Weight about : 64 Kg/km (43 lb/1000ft)

Designation of order:

L45467-G16-N17
208493
06Y(ST)C6Y 1X2X0.64/2.55-150 VI
1000 m (3281 ft) on non-returnable reel