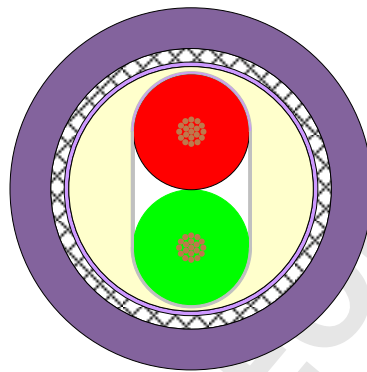


FieldLink®

PROFIBUS



Design

Wire

Stranded bare copper wire 19 X 0.14
Insulation of foamed Polyethylene (PE) with skin

∅ 0.67 mm (0,026 in)
∅ 2.56 mm (0,101 in)

Core

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

∅ 6.2 mm (0,244 in)

Jacket:

Polyvinylchloride (PVC) VT
Wall thickness about 0.9 mm

∅ (8.0 ± 0.4) mm (0.315 ± 0.016 in)

Printing: "sequential length in metres" LEONI L PROFIBUS L2/F.I.P. ES L45467-G16-C375 * 23AWG
(SHIELDED) (UL) E119100 CMG FT4 75°C or CL3 SUN RES or AWM 21694 600V *
"internal lot number"

Electrical data at 20°C

Loop resistance		≤	133	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
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 (wire/wire/screen rms 50Hz 1min)				2000	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 DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3)
 Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compoundtype TM52 (HD 624.2)
 Cold bend test acc. DIN VDE 0473 part 811-1-4 ; after 16 hour storage at -40° Grad
 Flame retardant acc. to IEC 60332-3-24 (Cat. C)
 Flame retardant acc. to UL 1685 (CSA FT 4)

FILE E119100 Vol.1 Sec.16 Page 7
 FILE E116441 Vol.1 Sec.6 Page 7
 UL-Style 21694

Other characteristics:

Sunlight resistant acc. to UL 1581 Sec.1200
 RoHS compliant (Directive 2011/65/EC)

Permissible temperature range : -40 °C (-40 °F) up to 80 °C (176 °F)
 Min. bending radius allowed : repeated 7X ø, single 5X ø
 PVC weight with Phthalate : 50.6 Kg/km
 PVC weight without Phthalate : 0.0 Kg/km
 Weight about : 74 Kg/km (49,6 lb/1000ft)

Designation of order:

L45467-G16-C375
 206126
 02YSY(ST)CY 1X2X0.65/2.55-150 LI VI
 1000 m (3281 ft) on non-returnable reel