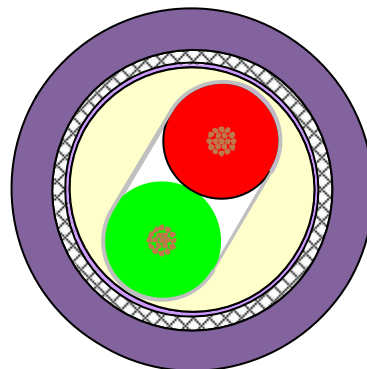


FieldLink®

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 * 24AWG (SHIELDED) (UL) E119100 CMG 75°C or CL3 or AWM 20201 600V FT4 SUN RES

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 | | | | 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. 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

Other characteristics:

Sunlight resistant acc. to UL 1581 Sec.1200

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 VT
 1000 m (3281 ft) on non-returnable reel