

Design

Wire

Bare copper wire ø 0.65 mm
 Insulation of foamed Polyethylene (PE) with skin ø 2.55 mm

Core:

2 wires RD and GN twisted to a pair
 Plastic tape, overlapped
 Inner-Jacket Polyvinylchloride (PVC) ø 5.4 mm
 Alulaminat foil overlapped, applied longitudinally
 Coverage 100%
 Shield braiding of tinned copper wires 0.15 mm dia
 Coverage about 55% ø 6.2 mm

Jacket:

Polyvinylchloride (PVC) VT
 Wall thickness about 0.9 mm ø (8.0 ±0.4) mm

| Printing: "sequential length in metres" LEONI L PROFIBUS L2/F.I.P. ES L45467-G16-C185 * 22AWG
 (SHIELDED) (UL) E119100 CMG 75 °C or CL3 or AWM 20201 600V FT4 SUN RES
 Textintervals about 1000 mm

Electrical data at 20°C

| | | | | |
|--------------------------|--------------------|---|------------|---------|
| Loop resistance | | ≤ | 110 | Ohm/km |
| Screen resistance | | ≤ | 9,5 | Ohm/km |
| Insulation resistance | | ≥ | 16 | GOhm*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) | ≈ | 1000 | µH/km |
| Capacitance (1 KHz) | ≈ | 28,5 | nF/km |
| Unbalance to ground | ≤ | 1500 | pF/km |
| Operating voltage (effective value) | ≤ | 100 | V |
| UL-Rating | | 600 | V |
| rel. velocity of propagation | ≈ | 81 | % |
| Test voltage (DC 3 sec) | = | 3600 | V |

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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)

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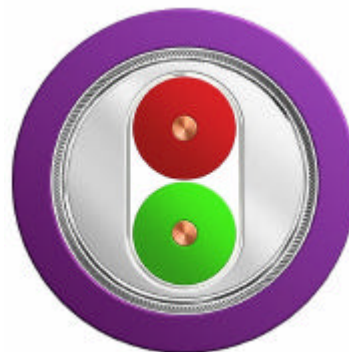
Other characteristics:

Sunlight resistant acc. to UL 1581 Sec.1200
 Permissible temperature range: - 40°C up to + 80°C
 Bending diameter ≥ 150 mm
 Pulling force with ≤ 100 N

PVC weight with Phthalate : 47.6 Kg/km
 PVC weight without Phthalate : 0.0 Kg/km
 Weight about : 75 Kg/km (50,3 lb/1000ft)

Designation of order:

L45467-G16-C185
 202226
 02YSY(ST)CY 1X2X0.64/2.55-150 VI KF40 FR
 1000 m on non-returnable reel



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