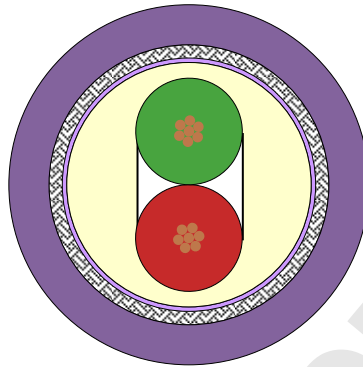


Profibus

Cable type: 02YSH(ST)CH 1X2X0.75/2.55-150 LI VI FRNC



Design

Wire

Stranded bare copper wire 7 X 0.25 (22 AWG) (0.34mm²)
Insulation of foamed Polyethylene (PE) with skin

∅ 0.76 mm (0,030 in)
∅ 2.55 mm (0,100 in)

Core

2 wires, RD and GN twisted
Plastic tape, overlapped
Inner-Jacket: Thermoplastic copolymer (FRNC)
Alulaminat foil overlapped, applied longitudinally
Shield braiding of tinned copper wires 0.15 mm dia (35 AWG)
Coverage about 85%

∅ 5.5 mm (0,217 in)
∅ 6.2 mm (0,244 in)

Jacket:

Thermoplastic copolymer (FRNC) VT
Wall thickness about 0.9 mm

∅ (8.0 ± 0.4) mm (0.315 ± 0.016 in)

Printing: "sequential length in metres" LEONI SeaLine Profibus 02YSH(ST)CH 1X2X0.75/2.55-150 LI FRNC
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 |

LEONI Special Cables GmbH

Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet

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 1 kHz | ≈ | 28.5 nF/km |
| Capacitance unbalance to ground | ≤ | 1500 pF/km |
| Operating voltage | ≤ | 60 V |
| Test voltage (wire/wire/screen rms 50Hz 1min) | = | 1000 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) (02Y)
 Jacket material acc. to DIN EN 50290-2-27 (HD 624.7) (IEC 60092-359 / SHF1)
 Flame retardant acc. to IEC 60332-1-2
 Oil resistant acc. to IEC 60811-2-1 (4 hours / 70°C)

Approved for Marine and Offshore Applications
 Germanischer Lloyd Certificate No. 33 997-06 HH
 Lloyds Register Certificate No. 07/20047
 Bureau Veritas Certificate No. 20147/B0 BV
 ABS Certificate No. 06-HG271929-PDA
 Det Norske Veritas Certificate No. E-11827

Other characteristics:

Flame retardant acc. to IEC 60332-3-22 (Cat. A/F)
 Halogen free acc. IEC 60754-1
 Smoke-density acc. to IEC 61034
 RoHS compliant (Directive 2011/65/EC)
 UV-resistant

Permissible temperature range : -25 °C (-13 °F) up to 80 °C (176 °F)
 Min. bending radius allowed : repeated 10X ø, single 5X ø
 Weight about : 84 Kg/km (56 lb/1000ft)

Designation of order:

L45467-G17-C46
 211958
 02YSH(ST)CH 1X2X0.75/2.55-150 LI VI FRNC
 1000 m (3281 ft) on non-returnable reel