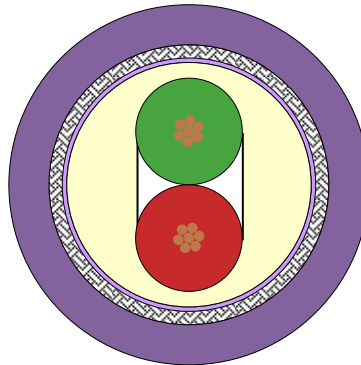


Profibus

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 Profibus 02YSH(ST)CH 1X2X0.75/2.55-150 LI FRNC

"internal lot number"

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 1 min)	=	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)
Flame retardant acc. to IEC 60332-1-2

Other characteristics:

Halogen free acc. IEC 60754-1
Smoke-density acc. to IEC 61034
RoHS compliant (Directive 2002/95/EC)

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

Designation of order:

L45467-G17-C86
215827
02YSH(ST)CH 1X2X0.75/2.55-150 LI VI FRNC
1000 m (3281 ft) on non-returnable reel