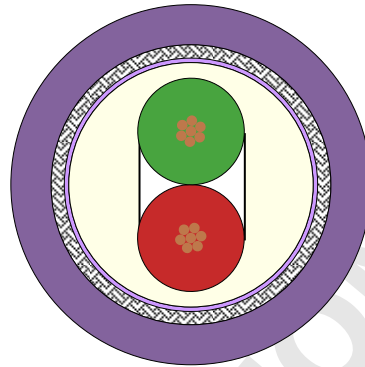


## Profibus

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



### Design

#### Wire

Stranded bare copper wire 7 X 0.25 (22 AWG) (0.34mm<sup>2</sup>)  
Insulation of foamed Polyethylene (PE) with skin

ø 0.75 mm (0.030 in)  
ø 2.55 mm (0.100 in)

#### Core

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

ø 5.5 mm (0.217 in)  
ø 6.2 mm (0.244 in)

#### Jacket:

Thermoplastic copolymer (FRNC) VT (cross-linked)  
Wall thickness about 0.9 mm

ø (8.0 ±0.4) mm (0.315 ±0.016 in)

Printing: "sequential length in metres" LEONI SeaLine Profibus 02YSH(ST)CHX 1X2X0.75/2.55-150 LI  
FRNC SHF2

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
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 / SHF2)  
 Oil resistant acc. to EN 60811-2-1 (24 hours / 100°C)  
 Flame retardant acc. to IEC 60332-1-2

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-11825

### 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)  
 Sunlight resistant acc. to UL 2556 Sec. 4.2.8.5

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

### Designation of order:

L45467-G17-C56  
 212758  
 02YSH(ST)CHX 1X2X0.75/2.55-150 LI VI FRNC  
 1000 m (3281 ft) on non-returnable reel