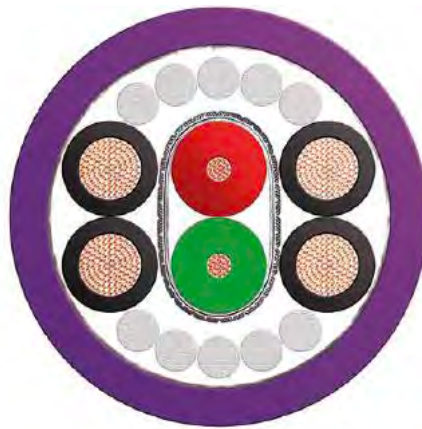


FieldLink®

Profibus DP-Desina
Trailing cable



Design

a) Wire LIH 1.5/2.4

Stranded bare copper wire 84 X 0.15 (1.5mm²)
Insulation of Thermoplastic copolymer (FRNC) SW, Printing: number
Wall thickness about 0.43 mm

∅ 1.55 mm
∅ 2.4 mm

b) Screened pair

Wire
Stranded bare copper wire 19 X 0.14 (0.3mm²)
Insulation of foamed Polyethylene (PE)

∅ 0.67 mm
∅ 2.56 mm

Corre
2 wires, RD and GN twisted to a pair
Plastic tapes, overlapped
Alulaminat foil overlapped
Shield braiding of tinned copper wires 0.15 mm dia
Coverage about 65%

Core:

1 screened pair to b)
4 wires to a) number 1 - 4
+ fillers
Plastic tapes, overlapped


∅ 9.0 mm

Jacket:

Polyurethane (PUR) VT

Wall thickness about 1.0 mm

ø (11.0 ±0.3) mm

Printing: LEONI L PROFIBUS Hybrid Cable * 2X23AWG + 4X16AWG  AWM 21198 *
 "year/internal order number" "sequential length in metres"

Electrical data at 20°C

Conductor resistance (wire to a)	≤	14	Ohm/km
Loop resistance (wire to b)	≤	138	Ohm/km
Screen resistance	≤	15	Ohm/km
Insulation resistance	≥	20	MOhm*km
Operating voltage (peak)		300	V
Test voltage (wire/wire/screen rms 50Hz 1min)		2000	V
Ampacity (up to 25 °C) wire to a)		12	A

Screened pair to b)

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
Capacitance (1 KHz)	≈	30	nF/km
Surface transfer impedance 20 MHz	≤	60	mOhm/m
rel. velocity of propagation	≈	81	%

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)

Insulating material acc. to DIN EN 50290-2-26 (VDE 0819) (HD 624.6)

Oil resistant acc. to UL 758 Sec.15 (96h/100°C)

Jacket material acc. F45052-F5100 (similar to DIN VDE 0282)

Flame test acc. to IEC 60332-1-2

UL Style 21198

Other characteristics:

Sunlight resistant acc. to UL 1581 Sec.1200

Pulling force with ≤ 300N

Trailing cable for following requirements

- 5 million bending cycles
- bending radius 7,5x max. \varnothing
- acceleration 2,5 m/s²

- 5 million bending cycles
- bending radius 150 mm
- at a speed of 3 m/s
- acceleration 9 m/s²

Permissible temperature range : - 40°C up to + 60°C

Min. bending diameter allowed: single 7X \varnothing

Weight about : 150 Kg/km

Designation of order:

L45467-G116-W58

202501

02Y(ST)C 1X2X0.65/2.56-150 LI

LIH-Z 11Y 4X1X1.5 VI FRNC

1000 m on non-returnable reel