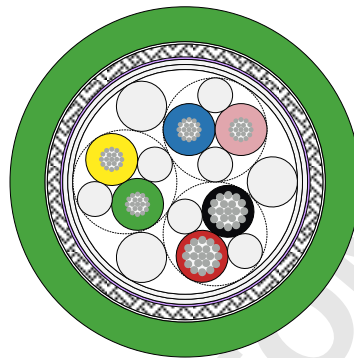


## FieldLink®

LI6Y 2X2X0.18/1.03-100 VZN  
 LI6Y (ST)C11Y 1X2X0.38 VZN GN



### Design

#### Paier LI6Y 1X2X0.18/1.03 VZN

Wire  
 Stranded tinned copper wire (25 AWG)  
 Insulation of Perfluorethylenpropylen, FEP

∅ 0.55 mm (0.022 in dia)  
 ∅ 1.03 mm (0.041 in dia)

2 wires twisted to a pair

#### Pair LI6Y 1X2X0.38/1.03

Wire  
 Stranded tinned copper wire (22 AWG)  
 Insulation of Perfluorethylenpropylen, FEP

∅ 0.77 mm (0.030 in dia)  
 ∅ 1.03 mm (0.041 in dia)

2 wires twisted to a pair

#### Core:

1 pair LI6Y 1X2X0.38/1.03 VZN BK/RD  
 2 pairs LI6Y 1X2X0.18/1.03 VZN GN/YE, BU/PK  
 + fillers

Plastic tapes overlapped  
 Alulaminat foil overlapped

Shield braiding of tinned copper wires 0.127 mm dia (36 AWG) (effective cross section ≥ 1.0mm<sup>2</sup>)

Coverage ≥ 85%

Plastic tape overlapped

∅ 5.3 mm (0.209 in dia)

#### Jacket:

Polyurethane (PUR) GN

∅ (6.95 ± 0.15) mm (0.274 ± 0.006 in dia)

Printing: LEONI L \* INDUSTRIAL ETHERNET + POWER TRAILING CABLE HIGH TEMPERATURE 120C \*  
 DESINA \* 2x2xAWG25 + 1x2xAWG22 "internal lot number"

#### Electrical data at 20°C

Conductor resistance (0.18mm <sup>2</sup> )	≤	110	Ohm/km
Conductor resistance (0.38mm <sup>2</sup> )	≤	55	Ohm/km
Insulation resistance	≥	500	MOhm*km

Operating voltage (peak)  $\leq$  30 V  
 Test voltage (wire/wire/screen rms 50Hz 1min) 500 V

Frequency (MHz)	0.01	0.5	1	2	4	10	30
Transfer impedance max (mOhm/m)	20	20	20	20	20	50	150

Pair LI6Y 2X0.18/1.03

Capacitance (1 kHz)  $\approx$  50 nF/km  
 Characteristic impedance 1 - 100 MHz (100  $\pm$  15) Ohm

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
Attenuation max (dB/100m) (dB/100ft)	2,5 (0,8)	5 (1,5)	8 (2,4)	10 (3,0)	11,5 (3,5)	14,5 (4,4)	20 (6,1)	27 (8,2)
Near-end crosstalk min (dB)	62	53	47	44	42	40	35	32
Return loss min dB	17					15.1	12.1	10

### Mechanical and thermal characteristics

Insulating material acc. to DIN VDE 0207, compound type 6Y11  
 Jacket material acc. F45052-F5100 (similar to DIN VDE 0282)  
 Oil resistant acc. to EN 60811-2-1 (7x24h/90°C)

Trailing cable suitable for the following requirements

- Bendings 10 million
- Maximum acceleration 20 m/s<sup>2</sup>
- Maximum horizontal speed 5 m/s
- Minimum bending radius 75 mm
- Maximum length horizontal of cable 5 m

### Other characteristics:

RoHS compliant (Directive 2011/65/EC)  
 Silicone-free, FCKW-free, Not halogen free

Permissible temperature range

Transport, installation and operating -40 °C (-40 °F) up to 120 °C (248 °F)

Max. pulling force (dynamic) 30 N/mm<sup>2</sup>  
 Max. pulling force (static) 80 N/mm<sup>2</sup>  
 Min. bending radius allowed repeated 8X  $\varnothing$ , single 4X  $\varnothing$   
 Weight about 66 kg/km (44 lb/1000ft)

### Designation of order of order:

L45467-J315-G8  
 225621  
 LI6Y 2X2X0.18/1.03-100 VZN  
 LI6Y (ST)C11Y 1X2X0.38 VZN GN  
 1000 m (3281 ft) on non-returnable reel