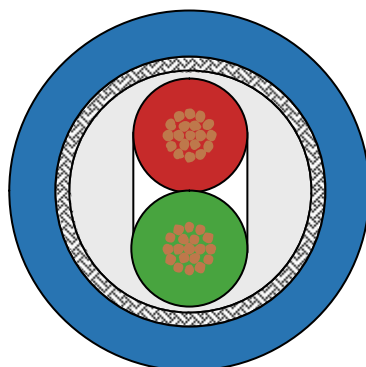


# FieldLink®

## PROFIBUS



### Design

#### Wire

Stranded bare copper wire 19 X 0.26 (18 AWG) ø 1.24 mm (0,049 in)  
 Insulation of foamed Polyethylene (PE) with skin ø 2.55 mm (0,100 in)

#### Core:

2 wires, RD and GN twisted to a pair  
 Plastic tape, overlapped  
 Innen-Jacket: Polyvinylchloride (PVC) (filling compound) ø 5.4 mm (0,213 in)  
 Shield braiding of tinned copper wires 0.15 mm dia ø 6.0 mm (0,236 in)  
 Coverage about 85%

#### Jacket:

Polyvinylchloride (PVC) BU  
 Wall thickness about 1.0 mm ø (8.0 ±0.3) mm (0,315 ±0,012 in)

Printing: "sequential length in metres" LEONI L PROFIBUS FMS ES L45467-J21-C35 \* AWM 2571 80 °C  
 Textintervals about 1000 mm

### Electrical data at 20°C

Loop resistance		≤	40	Ohm/km
Insulation resistance		≥	10	GOhm*km
Capacitance	1 kHz	≈	52	nF/km
Characteristic impedance	31.25 kHz		(100 ±20)	Ohm
Attenuation	39 kHz	≤	0.3	dB/100m
	100 kHz	nom.	0.4	dB/100m
	1 MHz	nom.	1.3	dB/100m

Relative velocity of propagation	≈	75	%
Surface transfer impedance of screen (10 MHz)	≤	250	mOhm/m
Operating voltage (peak)	≤	250	V
Test voltage (wire/wire/screen rms 50Hz 1min)		1500	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)  
 Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compoundtype TM52 (HD 624.2)  
 Flame retardant acc. to IEC 60332-1

UL-Style 2571

### Other characteristics:

Permissible temperature range : -40 °C (-40 °F) up to 80 °C (176 °F)  
 Min. bending radius allowed : repeated 10X ø, single 5X ø

PVC weight with Phthalate : 53.7 Kg/km  
 PVC weight without Phthalate : 0.0 Kg/km  
 Weight about : 100 Kg/km (67 lb/1000ft)

### Designation of order:

L45467-J21-C35  
 206229  
 02YSYCY 1X2X1.3/2.55-100 LI BL FR KF40  
 1000 m (3281 ft) on non-returnable reel