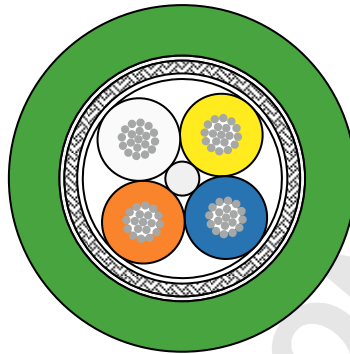


# FieldLink®

## Industrial Ethernet Cat 5e



### Design

#### Wire:

Stranded tinned copper wire 19 X 0.15 (22 AWG)  
Insulation of foamed Polyethylene (PE) with skin

∅ 0.75 mm (0.030 in)  
∅ 1.5 mm (0,059 in)

#### Core:


Filler as central element  
1. layer: 4 wires  
Sequence of colors: WH-YE-BU-OG  
Plastic tape, overlapped  
Shield braiding of tinned copper wires 0.13 mm dia (36 AWG)  
Coverage about 85%  
Plastic tape, overlapped

∅ 4.5 mm (0.177 in)

#### Jacket:

Polyurethane (PUR) GN  
Wall thickness about 1.0 mm

∅ (6.5 ±0.2) mm (0,256 ±0,008 in)

Printing: "sequential length in metres" LEONI L INDUSTRIAL ETHERNET TORSIONAL STRESS CABLE \*  
PROFINET Type C acc. CAT 5 PLUS \* 22AWG \*  AWM STYLE 21161 80°C \*  
"year/internal order number"

### Electrical data at 20°C

Loop resistance	≤	120	Ohm/km
Signal run time	≤	4,8	ns/m
Insulation resistance	≥	500	MOhm*km
Characteristic impedance 1 – 100 MHz		(100 ±15)	Ohm
Test voltage (wire/wire/screen rms 50Hz 1min)	=	700	V

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
ELFEXT (dB) ≤	63.8	51.8	43.8	39.7	37.8	33.9	24	20
Attenuation max. (dB/100m) (dB/100ft)	2,9 (0,88)	5,0 (1,52)	8,1 (2,47)	10,4 (3,17)	11,9 (3,63)	15,5 (4,72)	26,5 (8,08)	41 (12,50)

Other electrical requirements acc. to. EN 50288-2-2

### Mechanical and thermal characteristics

Conductor/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. F45052-F5100 (similar to DIN VDE 0282)

Flame retardant acc. to IEC 60332-1-2

UL-Style 21161 (80°C)

### Other characteristics:

Torsional strength

- 1 million cycles at  $\pm 180^\circ$  on 1 meter
- not adapted for garland mounting

Halogen free

Permissible temperature range : -40 °C (-40 °F) up to 80 °C (176 °F)

Min. bending radius allowed : single 5X  $\varnothing$

Weight about : 54 Kg/km (36 lb/1000ft)

### Designation of order:

L45467-J17-B78

206745

02YS C11Y 1X4X0.75/1.5-100 LI VZN FRNC GN

1000 m (3281 ft) on non-returnable reel