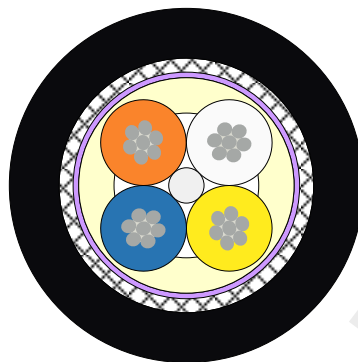


FieldLink®

INDUSTRIAL ETHERNET Cat 5+



Design

Wire

Stranded tinned copper wire 7 X 0.25 (22 AWG)
Insulation of Polyethylene (PE)

∅ 0.75 mm (0,030 in)
∅ 1.55 mm (0.061 in)

Core

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

∅ 3.9 mm (0,154 in)
∅ 4.7 mm (0,185 in)

Jacket

Polyvinylchloride (PVC) BK
Wall thickness about 0.9 mm

∅ (6.5 ±0.2) mm (0,256 ±0,008 in)

Printing: "sequential length in metres" * 22AWG (SHIELDED) (UL) E119100 CMG FT4 75°C or
PLTC SUN RES or AWM 21695 80°C 600V *

Electrical data at 20°C

Loop resistance
Signal run time
Insulation resistance
Characteristic impedance 100 MHz
UL-Rating
Surface transfer impedance 10 MHz
Test voltage (wire/wire/screen rms 50Hz 1min)

≤ 120 Ohm/km
≤ 5.3 ns/m
≥ 500 MOhm*km
(100 ±5) Ohm
600 V
≤ 20 mOhm/m
= 2000 V

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Near-end crosstalk attenuation

| Frequency (MHz) | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 |
|------------------------|----|----|----|----|----|-------|------|-----|
| typ. value (dB - 100m) | 80 | 76 | 70 | 65 | 63 | 60 | 55 | 50 |

Attenuation

| Frequency (MHz) | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 |
|------------------------------------|--------------|------------|--------------|------------|------------|---------------|---------------|---------------|
| typ. value (dB/100m) (dB/100ft) | 2,1 (0,6) | 4 (1,2) | 6,3 (1,9) | 8 (2,4) | 9 (2,7) | 11,4 (3,5) | 16,5 (5,0) | 21,3 (6,5) |

The electrical requirements similar to EN 50288-2-1

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 L/MD (HD 624.3) (2Y)

Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compoundtype TM52 (HD 624.2)

Flame retardant acc. to UL 1685 (CSA FT 4)

UL File E119100 Vol.1 Sec. 12 Page 1 (CMG)

UL File E116441 Vol.1 Sec. 6 Page 8 (PLTC)

UL-Style 21695

Torsional strength (must be testified)

- 10000 cycles
- Torsional angle $\pm 180^\circ$ on 1 meter

Other characteristics

RoHS compliant (Directive 2011/65/EU & 2015/863/EU RoHS 3)

Sunlight resistant acc. to UL 1581 Sec.1200

Permissible temperature range : -40°C up to +80°C

During laying : -20°C up to +60°C

Transport temperature range : -50°C up to +80°C

Min. bending radius allowed : repeated 5X \varnothing , single 3X \varnothing

PVC weight with Phthalate : 30.3 Kg/km

PVC weight without Phthalate : 0.0 Kg/km

Weight about : 67 Kg/km (45 lb/1000ft)

Designation of order

L45467-J17-B115

211129

2YY(ST)CY 2X2X0.75/1.5-100 LI VZN

2000 m (6562 ft) on non-returnable reel

Product has not been tested and classified according to the CPR (EU/305/2011).

The product shall not be permanently installed in buildings in the EU.