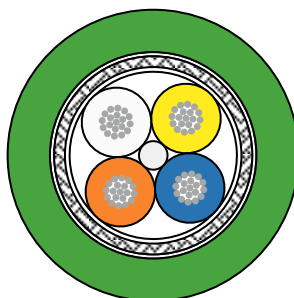


FieldLink®

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" BizLink Special Cables Germany INDUSTRIAL ETHERNET TORSIONAL STRESS CABLE * PROFINET Type C acc. CAT 5 PLUS * 22AWG * E130266  AWM STYLE 21161 80°C * "internal lot 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)	=	2000	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

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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 LIVZN FRNC GN

1000 m (3281 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.