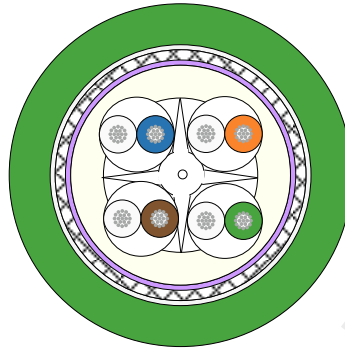


FieldLink®

Industrial Ethernet Cat 6A ES



Design

Wire

Stranded tinned copper wire 19 X 0.1
Insulation of Polypropylene (PP)

∅ 0.55 mm (0.022 in)
∅ 0.98 mm (0,039 in)

Pair

2 wires twisted to a pair

Core

Filler as central element
1. layer: 4 pairs twisted
Sequence of colors: WH/BU-WH/OG-WH/GN-WH/BN
Inner-Jacket Thermoplastic copolymer (FRNC)
Alulaminat foil overlapped
Shield braiding of tinned copper wires 0.1 mm dia (38 AWG)
Coverage about 85%
Plastic tape, overlapped

∅ 5.7 mm (0.224 in)

∅ 6.3 mm (0.248 in)

Jacket

Polyurethane (PUR) GN
Wall thickness about 0.75 mm

∅ (7.8 ±0.2) mm (0.307 ±0.008 in)

Printing: "sequential length in metres" BizLink Special Cables Germany TRAILING Cable * 4X2X26AWG
Cat6A (SHIELDED) c(UL)us E119100 CMX 75°C * "internal lot number"

Electrical data at 20°C

Loop resistance	≤	280	Ohm/km
Signal run time	≤	5.34	ns/m
Insulation resistance	≥	500	MOhm*km
Capacitance (1 kHz)	nom.	52	nF/km
Time delay skew (Pair to Pair)	≤	30	ns/100m
Transfer impedance (10 MHz)	≤	30	mOhm/m
Characteristic impedance (100 MHz)		(100 ±5)	Ohm
Operating voltage (peak)	≤	100	V
Test voltage (wire/wire/screen rms 50Hz 1min)		1500	V

FELTEN Wire & Cable Solutions BV

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Number: L45467-J415-C48
Up-dating B: 01-09-2023
Up-dating F: 19-09-2023

Frequency(MHz)	1	4	10	16	20	31.25	62.5	100	155	200	300	500
Next (dB)	75.3	66.3	60.3	57.2	55.8	52.9	48.4	45.3	42.4	40.8	38.1	34.8
PSNext (dB)	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	39.4	37.8	35.1	31.8
ELFext (dB)	68.0	56.0	48.0	43.9	42.0	38.1	32.1	28.0	24.2	22.0	18.5	14.0
PSELfext (dB)	65.0	53.0	45.0	40.9	39.0	35.1	29.1	25.0	21.2	19.0	15.5	11.0
Attenuation (dB/100m)	2.9	5.5	8.5	10.8	12.1	15.2	21.7	27.8	35.0	40.1	49.9	66.2
Frequency(MHz)	4	8	10	16	20	31,25	62,5	100	155	250	300	500
Return loss (dB)	23	24.5	25	25	25	23.6	21.5	20.1	18.8	17.3	17.3	17.3

Electrical requirements acc. to. DIN EN 50288-10-2 (2016)

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
 Flame retardant acc. to IEC 60332-1-2
 Flame retardant acc. to UL 1581, Sec. 1080 (VW-1)
 Flame retardant acc. UL 1581, Sec. 1060 (CSA FT-1)
 Oil resistance acc. to CSA-C22.2 (4 x 24 hours / 100°C)

UL E119100 Vol. 1 Sec. 17 Page 1A (CMX)

Other characteristics

RoHS compliant (Directive 2011/65/EU & 2015/863/EU RoHS 3)
 Halogen free acc. to IEC 60754-1

Trailing cable for following requirements

- 1 million bending cycles
- bending radius 7.5 x max. \varnothing
- at a speed of 4 m/s
- acceleration 4 m/s²
- travel distance 10 m
- standard atmospheres (20°C)

Temperature range

- fixed installation : -40 °C (-40 °F) up to 80 °C (176 °F)
- flexing : -30 °C (-22 °F) up to 70 °C (158 °F)

Max. pull force : \leq 100 N

Min. bending radius allowed: repeated 7.5X \varnothing , single 4X \varnothing

Weight about : 63 Kg/km (42 lb/1000ft)

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Designation

L45467-J415-C48

217325

9YH(ST)C11Y 4X2X0.55/0.98-100 LI GN

3000 m (9843 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.

CONFIDENTIALITY: This document and its content must be treated strictly confidential and are property of BizLink Special Cables Germany GmbH

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