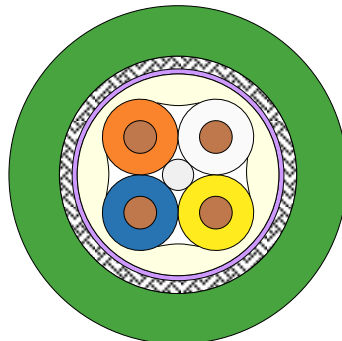


FieldLink®

Industrial Ethernet Cat.5+



Design

Wire

Bare copper wire (22 AWG)
Insulation of Polyethylene (PE)

∅ 0.64 mm (0.025 in dia)
∅ 1.43 mm (0.056 in dia)

Core

Filler as central element
1. layer: 4 wires twisted
Sequence of colors: WH-YE-BU-OG
Inner-Jacket Thermoplastic copolymer (FRNC)
Alulaminat foil overlapped, applied longitudinally
Shield braiding of tinned copper wires
Coverage about 85%

∅ 3.9 mm (0.154 in dia)

Jacket

Thermoplastic copolymer (FRNC) GN

∅ (6.5 ±0.2) mm (0.256 ±0.008 in dia)

Printing: "sequential length in metres" BizLink Special Cables Germany INDUSTRIAL ETHERNET STANDARD
CABLE * PROFINET TYPE A ES CAT5 PLUS FRNC * 2YH(ST)CH 2X2X0.64/1.5-100 DoP CDEFR000008

C_{ca} s1a d1 a1 * "internal lot number"

Electrical data at 20°C

Loop resistance	≤	115	Ohm/km
Insulation resistance	≥	500	MOhm*km
Signal run time	≤	5.3	ns/m
Capacitance (1 kHz)	≈	52	nF/km
Characteristic impedance 100 MHz		(100 ± 5)	Ohm
Test voltage (wire/wire/screen rms 50Hz 1min)		700	V

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
Next (dB)	65.3	56.3	50.3	47.2	45.8	42.9	38.4	35.3
PSNext (dB)	62.3	53.3	47.3	44.2	42.8	39.9	35.4	32.3
ELFext (dB)	63.8	51.8	43.8	39.7	37.8	33.9	27.9	23.8
PSELfext (dB)	60.8	48.8	40.8	36.7	34.8	30.9	24.9	20.8
Attenuation (dB/100m)	2.1	4.0	6.3	8.0	9.0	11.4	16.5	21.3
Frequency	4	8	10	16	20	31.25	62.5	100
Return loss (dB)	23.0	24.5	25	25	25	23.6	21.5	20.1

Electrical requirements acc. to. EN 50288-2-1

Mechanical and thermal characteristics

Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table L/MD (HD 624.3)

Jacket material acc. to DIN EN 50290-2-27 (HD 624.7)

Other characteristics

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

Low Smoke, Fire retardant, Zero Halogen

Corrosivity of fumes acc. to IEC 60754-2

Smoke-density acc. to IEC 61034

UV-resistant

CPR

Fire Class acc. to EN 13501-6

Cca

Harmonized Standard

EN 50575

No. of Declaration of Performance (DoP)

CDEFR0000008

Permissible temperature range

Transport and fixed installation: -40 °C (-40 °F) up to 80 °C (176 °F)

Installation and flexible use : -30 °C (-22 °F) up to 80 °C (176 °F)

Min. bending radius allowed : repeated 8X \varnothing , single 4X \varnothing

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

Designation of order

L45467-J16-B246

234209

2YH(ST)CH 2X2X0.64/1.5-100 GN FRNC

1000 m (3281 ft) on non-returnable reel