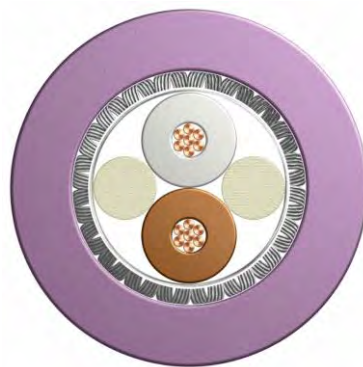


FieldLink®

CAN BUS 120Ω 1X2X21AWG



Design

Wire

Stranded bare copper wire 66 X 0.1
Insulation of foamed Polyethylene (PE) with skin

∅ 0.95 mm (0,037 in)
∅ 2.4 mm (0,094 in)

Core

2 wires, WH and BN twisted to a pair with fillers in gaps
Plastic tape, overlapped
Shield braiding of tinned copper wires 0.13 mm dia
Coverage about 85%

∅ 5.4 mm (0,213 in)

Jacket

Polyurethane (PUR) VT
Wall thickness about 1.15 mm

∅ (7.7 ±0.3) mm (0.303 ±0.012 in)

Printing: "sequential length in metres" BizLink Special Cables Germany CAN Cable 1x2x0.5 highflex
L45551-C21-C8 "internal lot number"

Electrical data at 20°C

Conductor resistance	≤	38	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	36	nF/km
Characteristic impedance (≥ 1 MHz)		(120 ±18)	Ohm
rel. velocity of propagation	≈	80	%
Surface transfer impedance (up to 30 MHz)	≤	250	mOhm/m
Operating voltage (peak)	≤	300	V
Test voltage (wire/wire/screen rms 50Hz 1min)		2000	V

Frequency (MHz)	0.1	1	5	10	20
Attenuation typ. (dB/100m) (dB/100ft)	0.5 (0.15)	1.3 (0.40)	3.4 (1.04)	4.9 (1.49)	7.3 (2.22)

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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

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

Oil resistant acc. to IEC 60811-2-1

Other characteristics

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

UV-resistant

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

Min. bending radius allowed : repeated 7X \varnothing , single 4X \varnothing

Weight about : 62 Kg/km (42 lb/1000ft)

Designation of order

L45551-C21-C8

205162

L-02YSC11Y 1X2X0.5/2.4-120 VI FRNC

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.