

FieldLink®

for CAN applications



Design

Wire

Stranded bare copper wire 19 X 0.135
Insulation of foamed Polyethylene (PE) with skin

∅ 0.7 mm (0.028 in)
∅ 1.6 mm (0.063 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 80%
Plastic tape, overlapped

∅ 3.9 mm (0.154 in)

Jacket

Polyurethane (PUR) VT
Wall thickness about 1.2 mm

∅ (6.3 ±0.3) mm (0.248 ±0.012 in)

Printing: "sequential length in metres" BizLink Special Cables Germany * CAN Cable 1x2x0.25
L45551-B21-C8 * "internal lot number"

Electrical data at 20°C

Conductor resistance	≤	80	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	40	nF/km
Characteristic impedance (1 MHz)		(120 ±18)	Ohm
Relative velocity of propagation	≈	78	%
Surface transfer impedance (up to 30 MHz)	≤	250	mOhm/m
Operating voltage (peak)	≤	250	V
Test voltage (wire/wire rms 50Hz 1 min)	=	1500	V
Test voltage (wire/screen rms 50Hz 1 min)	=	1000	V

Frequency (MHz)	0.1	1	5	10	20
Attenuation typ. (dB/100m) (dB/100ft)	0,65 (0,2)	1,9 (0,5)	4,3 (1,3)	8,1 (2,5)	10,5 (3,2)

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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 60332-1-2

Oil resistant acc. to DIN EN 60811-2-1

Application / Special feature

Halogen free

Sunlight resistant

Permissible temperature range : -30 °C (-22 °F) up to 80 °C (176 °F)

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

Weight about : 44 Kg/km (29,5 lb/1000ft)

Designation of order

L45551-B21-C8

205158

L-02YSC11Y 1X2X0.25/1.6-120 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.