

FieldLink®

for CAN applications



Design

Wire

Stranded bare copper wire 7 X 0.32
Insulation of foamed Polyethylene (PE) with skin

∅ 0.94 mm (0.037 in dia)
∅ 2.4 mm (0.094 in dia)

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 dia)

Jacket

Polyvinylchloride (PVC) VT
Wall thickness about 1.0 mm

∅ (7.5 ±0.3) mm (0.295 ±0.012 in dia)

| Printing: "sequential length in metres" BizLink Special Cables Germany * CAN Cable 1x2x0.5 L45551-C21-C5 *
E130266  AWM STYLE 20200 * "internal lot number"
Textintervals about 1000 mm

Electrical data at 20°C

Conductor resistance	≤	34.4	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	40	nF/km
Characteristic impedance (1 MHz)		(120 ±18)	Ohm
Surface transfer impedance of screen up to 30 MHz	≤	250	mOhm/m
Relative velocity of propagation	≈	76	%
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)	0,3 (0,1)	1,1 (0,3)	2,8 (0,9)	3,9 (1,2)	5,7 (1,7)

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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. to DIN EN 50290-2-22 (VDE 0819), compoundtype TM52 (HD 624.2)

Flame retardant acc. to IEC 60332-1

UL-Style 20200, 10233

Other characteristics

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

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

Min. bending radius allowed : repeated 7X \varnothing , single 5X \varnothing

PVC weight with Phthalate : 30.4 Kg/km

PVC weight without Phthalate : 0.0 Kg/km

Weight about : 64 Kg/km (42,9 lb/1000ft)

Designation of order

L45551-C21-C5

205154

L-02YSCY 1X2X0.5/2.4-120 VI FR

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.