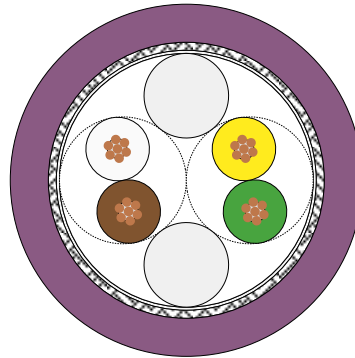


# FieldLink<sup>®</sup>

for CAN applications



## Design

### Wire

Stranded bare copper wire 7 X 0.3  
Insulation of foamed Polyethylene (PE) with skin

∅ 0.9 mm (0,035 in dia)  
∅ 2.0 mm (0,079 in dia)

### Pair

2 wires twisted to a pair

### Core

2 pairs twisted to a core with fillers in the gaps  
Sequence of colors: WH/BN - GN/YE  
Plastic tape, overlapped  
Shield braiding of tinned copper wires 0.15 mm dia  
Coverage about 80%

∅ 7.2 mm (0.283 in dia)

### Jacket

Polyvinylchloride (PVC) VT  
Wall thickness about 1.2 mm

∅ (9.6 ±0.3) mm (0.378 ±0.012 in dia)

Printing: "sequential length in metres" BizLink Special Cables Germany \* CAN Cable 2x2x0.5 L45551-C22-C5 \* 21AWG (SHIELDED) (UL) E119100 CMX 75°C \* "internal lot number"

### Electrical data at 20°C

Conductor resistance	≤	38	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	40	nF/km
Characteristic impedance (1 MHz)		(120 ±18)	Ohm
Near-end crosstalk attenuation (20 MHz)		40	dB
Surface transfer impedance of screen (30 MHz)	≤	250	mOhm/m
Relative velocity of propagation	≈	76	%
Operating voltage (peak)	≤	250	V
Test voltage (wire/wire rms 50Hz 1min)		1500	V
Test voltage (wire/screen rms 50Hz 1min)		1000	V

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Frequency (MHz)	0.1	1	5	10	20
Attenuation typ. (dB/100m) (dB/100ft)	0,45 (0,1)	1,1 (0,3)	2,8 (0,9)	3,9 (1,2)	5,7 (1,7)

### 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) (02Y)

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

Flame retardant acc. to IEC 60332-1-2

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### Other characteristics

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

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

PVC weight with Phthalate : 46.8 kg/km

PVC weight without Phthalate : 0.0 kg/km

Weight about : 97 kg/km (65 lb/1000ft)

### Designation of order

L45551-C22-C5

205155

L-02YSCY 2X2X0.5/2.0-120 VI

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.