

# FieldLink<sup>®</sup>

for CAN applications



**Design**

**Wire**

Stranded bare copper wire 7 X 0.2  
Insulation of foamed Polyethylen (PE) with skin

∅ 0.6 mm (0,024 in)  
∅ 1.3 mm (0,051 in)

**Pair**

2 wires twisted to a pair

**Core**

2 pairs twisted to a core with filler in the gaps  
Sequence of colors: WH/BN - GN/YE  
Plastic tape, overlapped  
Shield braiding of tinned copper wires 0.13 mm dia  
Coverage about 80%

∅ 5.0 mm (0,197 in)

**Jacket**

Polyvinylchloride (PVC) VT  
Wall thickness about 1.2 mm

∅ (7.5 ±0.3) mm (0.295 ±0.012 in)

Printing: "sequential length in metres" BizLink Special Cables Germany \* CAN Cable 2x2x0.22  
L45551-A22-C5 \* 24AWG (SHIELDED) (UL) E119100 CMX 75°C "internal lot number"  
Textintervals about 1000 mm

**Electrical data at 20°C**

Conductor resistance	≤	87.6	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	40	nF/km
Characteristic impedance (1 MHz)		(120 ±15)	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

Frequency (MHz)	0.1	1	5	10	20
Attenuation typ. (dB/100m) (dB/100ft)	0.6	1.7	3.9	5.6	8.1

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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

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### **Other characteristics**

With lead-free plastic materials

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 : 35.1 Kg/km

PVC weight without Phthalate : 0.0 Kg/km

Weight about : 64 Kg/km (43 lb/1000ft)

### **Designation of order**

L45551-A22-C5

205151

L-02YSCY 2X2X0.22/1.3-120 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.