

# FieldLink®

CAN BUS for permanent and flexible installation



## Design

### Wire

Stranded bare copper wire 7 X 0.25 ø 0.76 mm (0,030 in)  
 Insulation of foamed Polyethylene (PE) with skin ø 1.7 mm (0,067 in)

### Pair

2 wires twisted to a pair ø 3.4 mm (0,134 in)

### Core

2 pairs twisted  
 + fillers  
 Sequence of colors: WH/BN, GNYE  
 Plastic tape, overlapped  
 Shield braiding of tinned copper wires 0.13 mm dia  
 Coverage about 80% ø 6.4 mm (0,252 in)

### Jacket

Polyvinylchloride (PVC) VT  
 Wall thickness about 1.0 mm ø (8.5 ±0.3) mm (0.335 ±0.012 in)

Printing: "sequential length in metres" BizLink Special Cables Germany \* CAN Cable 2x2x0.34  
 L45551-P22-C5 \* E130266 AWM STYLE 2464 \* "internal lot number"

## Electrical data at 20°C

Conductor resistance	≤	55	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	35	nF/km
Characteristic impedance f ≥ 1 MHz		(120 ±20)	Ohm
Rel. velocity of propagation	≈	76	%
Near-end crosstalk attenuation up to 20 MHz		40	dB
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)	0,4 (0,1)	1,3 (0,4)	3,1 (0,9)	4,3 (1,3)	6,4 (2,0)

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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 60332-1-2

UL-Style 2464 (60°C/300V)

### **Other characteristics**

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

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

PVC weight with Phthalate : 34.6 Kg/km

PVC weight without Phthalate : 0.0 Kg/km

Weight about : 77 Kg/km (52 lb/1000ft)

### **Designation of order**

L45551-P22-C5

205153

L-02YSCY 2X2X0.34/1.7-120 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.