

# FieldLink®

## CAN BUS 1X2X22AWG



**Design**

**Wire**

Stranded bare copper wire 7 X 0.25 (22 AWG)  
Insulation of foamed Polyethylene (PE) with skin

∅ 0.76 mm (0,030 in)  
∅ 2.0 mm (0,079 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%

∅ 4.6 mm (0,181 in)

**Jacket**

Polyvinylchloride (PVC) VT  
Wall thickness about 1.1 mm

∅ (6.8 ±0.3) mm (0.268 ±0.012 in)

Printing: "sequential length in metres" BizLink Special Cables Germany \* CAN Cable 1x2x0.34  
L45551-P21-C5 \* E130266 AWM STYLE 2464 80°C 300V \* "internal lot number"  
Textintervals about 1000 mm

**Electrical data at 20°C**

Conductor resistance	≤	55	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	38	nF/km
Characteristic impedance f ≥ 1 MHz		(120 ±20)	Ohm
Rel. velocity of propagation	≈	79	%
Surface transfer impedance up to 30 MHz	≤	250	mOhm/m
Operating voltage (peak)	≤	300	V
Test voltage (wire/wire/screen rms 50Hz 1 min)		2000	V

Frequency (MHz)	0.1	1	5	10	20
Attenuation typ. (dB/100m) (dB/100ft)	0,5 (0,2)	1,5 (0,5)	3,3 (1,0)	4,7 (1,4)	6,7 (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

UL-Style 2464 (80°C/300V)

### **Other characteristics**

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

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

PVC weight with Phthalate : 28.1 Kg/km

PVC weight without Phthalate : 0.0 Kg/km

Weight about : 52 Kg/km (35 lb/1000ft)

### **Designation of order**

L45551-P21-C5

205152

L-02YSCY 1X2X0.34/2.0-120 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.