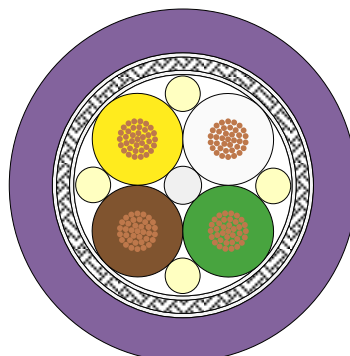


# FieldLink®

for CAN applications



## Design

### Wire

Stranded bare copper wire 66 X 0.1 (21 AWG)  
Insulation of foamed Polyethylene (PE)

∅ 0.95 mm (0,037 in)  
∅ 2.3 mm (0,091 in)

### Core

Filler as central element  
4 wires twisted to form a star-quad +fillers  
Sequence of colors: WH-GN-BN-YE  
Plastic tape, overlapped  
Shield braiding of tinned copper wires 0.15 mm dia (35 AWG)  
Coverage about 90%  
Plastic tape, overlapped

∅ 6.8 mm (0,268 in)

### Jacket

Polyurethane (PUR) VT  
Wall thickness about 1.0 mm

∅ (8.8 ±0.4) mm (0,346 ±0,016 in)

| Printing: "sequential length in metres" BizLink Special Cables Germany \* CAN Cable 2x2x0.5  
L45551-C14-C8 \* 21AWG (SHIELDED) (UL) E119100 CMX 75°C \* "internal lot number"

### Electrical data at 20°C

Conductor resistance	≤	38	Ohm/km
Insulation resistance	≥	10	GOhm*km
Operating voltage		300	V
Capacitance (1 kHz)	≈	40	nF/km
Characteristic impedance (1 MHz)		(120 ±12)	Ohm
Test voltage (wire/wire/screen rms 50Hz 1min)		1500	V

Frequency (MHz)	0.1	1	5	10	20
Attenuation typ. (dB/100m) (dB/100ft)	0,48 (0,15)	1,5 (0,46)	4,1 (1,25)	5,9 (1,80)	8,6 (2,62)

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## **Mechanical and thermal characteristics**

UL-File E119100 Vol.1 Sec.25 Page 1 (CMX)

## **Other characteristics**

RoHS compliant

Halogen free

UV-resistant

Trailing cable (must be testified)

- 5 million cycles
- bending radius 15 x max.  $\varnothing$
- acceleration 4 m/s<sup>2</sup>
- at a speed of 4 m/s

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

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

Weight about : 89 Kg/km (60 lb/1000ft)

## **Designation of order**

L45551-C14-C8

212953

L-02YC11Y 2X2X0.5/2.3-120 LI VI FRNC

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.