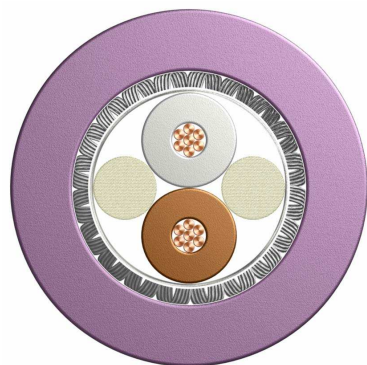


# FieldLink®

CAN BUS 120Ω 1X2X21AWG



### Design

#### Wire:

Stranded bare copper wire 66 X 0.1  
Insulation of foamed Polyethylene (PE) with skin

∅ 0.95 mm (0,037 in)  
∅ 2.4 mm (0,094 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 85%

∅ 5.4 mm (0,213 in)

#### Jacket:

Polyurethane (PUR) VT  
Wall thickness about 1.15 mm

∅ (7.7 ±0.3) mm (0.303 ±0.012 in)

Printing: "sequential length in metres" LEONI L CAN Cable 1x2x0.5 highflex L45551-C21-C8

### Electrical data at 20°C

Conductor resistance	≤	38	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	36	nF/km
Characteristic impedance (≥ 1 MHz)		(120 ±18)	Ohm
rel. velocity of propagation	≈	80	%

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)	0,5 (0,15)	1,3 (0,40)	3,4 (1,04)	4,9 (1,49)	7,3 (2,22)

### 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. F45052-F5100 (similar to DIN VDE 0282)  
 Flame retardant acc. to IEC 60332-1  
 Oil resistant acc. to IEC 60811-2-1

### Other characteristics:

RoHS compliant (Directive 2011/65/EC)  
 UV-resistant

Permissible temperature range : -40 °C (-40 °F) up to 80 °C (176 °F)  
 Min. bending radius allowed : repeated 7X ø, single 4X ø  
 Weight about : 62 Kg/km (42 lb/1000ft)

### Designation of order:

L45551-C21-C8  
 205162  
 L-02YSC11Y 1X2X0.5/2.4-120 VI FRNC  
 1000 m (3281 ft) on non-returnable reel