

# FieldLink®

CAN BUS for permanent and flexible installation



## Design

### Wire:

Stranded bare copper wire 7 X 0.25  
Insulation of foamed Polyethylen (PE) with skin

∅ 0.76 mm (0,030 in)  
∅ 1.7 mm (0,067 in)

### Pair:

2 wires twisted to a pair

∅ 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%

∅ 6.4 mm (0,252 in)

### Jacket:

Polyvinylchloride (PVC) VT  
Wall thickness about 1.0 mm

∅ (8.5 ±0.3) mm (0.335 ±0.012 in)

Printing: "sequential length in metres" LEONI L CAN Cable 2x2x0.34 L45551-P22-C5 \*   
AWM STYLE 2464

## LEONI Special Cables GmbH

Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet

### Electrical data at 20°C

Conductor resistance	≤	55	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	40	nF/km
Characteristic impedance $f \geq 1$ 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)

### 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 (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