

FieldLink® CAN BUS 1X2X24AWG



Design

Wire

Stranded bare copper wire 7 X 0.2 (24 AWG)
Insulation of foamed Polyethylen (PE) with skin

∅ 0.6 mm (0,024 in)
∅ 1.55 mm (0,061 in)

Core

2 wires, WH and BN twisted to a pair with fillers in gaps
Plastic tape, overlapped
Shield braiding of tinned copper wires 0.1 mm dia
Coverage about 85%

∅ 3.7 mm (0,146 in)

Jacket

Polyvinylchloride (PVC) VT
Wall thickness about 1.05 mm

∅ (5.8 ±0.3) mm (0.228 ±0.012 in)

Printing: "sequential length in metres" BizLink Special Cables Germany CAN Cable 1x2x0.22
L45551-A21-C35 * E130266  AWM STYLE 2464 80°C 300V * "internal lot number"
Textintervals about 1000 mm

Electrical data at 20°C

Conductor resistance	≤	87.6	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	40	nF/km
Characteristic impedance (1 MHz)		(120 ±15)	Ohm
Surface transfer impedance of screen (30 MHz)	≤	250	mOhm/m
Relative velocity of propagation	≈	76	%
Operating voltage (peak)	≤	250	V
Test voltage (wire/wire rms 50Hz 1 min)		1500	V
Test voltage (wire/screen rms 50Hz 1 min)		1000	V

Frequency (MHz)	0.1	1	5	10	20
Attenuation typ. (dB/100m) (dB/100ft)	0.7 (0.2)	1.7 (0.5)	3.9 (1.2)	5.6 (1.7)	8.1 (2.5)

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 \varnothing , single 4X \varnothing

PVC weight with Phthalate : 22.4 Kg/km

PVC weight without Phthalate : 0.0 Kg/km

Weight about : 39 Kg/km (26 lb/1000ft)

Designation of order

L45551-A21-C35

205150

L-02YSCY 1X2X0.22/1.55-120 VI

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.