

LEONI Special Cables GmbH

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

Design

a) Wire LI2Y 1.0/1.7
 Stranded bare copper wire 56 X 0.15 ø 1.36 mm
 Insulation of Polyethylen (PE) ø 1.7 mm
 Wall thickness about 0.17 mm

b) Wire LI2Y 0.25/1.1
 Stranded bare copper wire 32 X 0.1 ø 0.69 mm
 Insulation of Polyethylen (PE) ø 1.1 mm
 Wall thickness about 0.2 mm

c) 2 wires to b) twisted to a pair

Core:

Filler as central element

1. layer: 3 wires to a)

3 pairs to c)

Sequence of colors: WH/BN - RD - YE/GN - BU - GY/PK - YEGN

Plastic laminates, overlapped

Shield braiding of tinned copper wires 0.1 mm dia

Coverage about 85%

ø 5.8 mm

Jacket:

Polyurethane (PUR) GN

Wall thickness about 0.8 mm

ø (7.4 ±0.3) mm

Printing: LEONI L INTERBUS IBS INBC

Electrical data at 20°C

Conductor resistance (0.25mm²)

≤ 85 Ohm/km

Conductor resistance (1.0mm²)

≤ 22 Ohm/km

Insulation resistance

≥ 200 MOhm*km

Operating voltage

100 V

Test voltage (wire/screen rms 50Hz 1min)

= 1000 V

Test voltage (wire/wire rms 50Hz 1min)

= 1000 V

Capacitance (1 kHz)

Pair to c)

≈ 60 nF/km

Attenuation

Pair to c)

see table

Near crosstalk

Pair to c)

see table

Characteristic impedance (0.064 MHz)

Pair to c)

(120 ±24) Ohm

Characteristic impedance (1 MHz)

Pair to c)

(100 ±15) Ohm

Surface transfer impedance (30 MHz)

Pair to c)

≤ 250 mOhm/m

Frequency (MHz)	0.256	0.772	1	4	10	16	20
Attenuation typ. (dB/100m)	1.5	2.4	2.7	6.5	11.5	15	16.5

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Frequency (MHz)	0.772	1	2	4	8	10	16	20
Near crosstalk (dB)	61	59	55	50	46	44	41	40

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 L/MD (HD 624.3)

Jacket material acc. F45052-F5100 (similar to DIN VDE 0282)

Flame test acc. to IEC 60332-1-2

Other characteristics:

Fire load 0.85 MJ/m

Permissible temperature range: -40°C (-130°F) up to +80°C (+202°F)

Min. bending radius allowed : repeated 5X \varnothing , single 3,75X \varnothing

Weight about : 88 Kg/km (59 lb/1000ft)

Application / Special feature:

INTERBUS IBS INBC

Designation of order:

L45551-W91-B8

201079

L-2Y 3X1X1.0

2Y C11Y 3X2X0.25 GN FRNC

1000 m (3281 ft) on reel

