

LEONI Special Cables GmbH

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

Design**Pair LI2Y 1X2X0.22****Wire**

Stranded bare copper wire 7 X 0.2

ø 0.6 mm (0,024 in)

Insulation of Polyethylene (PE)

ø 1.04 mm (0,041 in)

Wall thickness about 0.22 mm

2 wires twisted to a pair

Wire LI2Y 1X1.0

Stranded bare copper wire 19 X 0.26

ø 1.3 mm (0,051 in)

Insulation of Polyethylene (PE)

ø 1.7 mm (0,067 in)

Wall thickness about 0.2 mm

Core:

Filler as central element

3 pairs LI2Y 1X2X0.22/1.04

3 wires LI2Y 1X1.0/1.7

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

2 Plastic tape, overlapped

Shield braiding of tinned copper wires 0.13 mm dia

Coverage about 85%

ø 5.9 mm (0,232 in)

Inner jacket:

Polyvinylchloride (PVC) GN

Wall thickness about 0.8 mm

ø 7.5 mm (0,295 in)

Jacket:

Polyvinylchloride (PVC) BK

Wall thickness about 0.95 mm

ø (9.4 ±0.4) mm (0,370 ±0,016 in)

Printing: LEONI L * INTERBUS IBS INBC

Textintervals about 300 mm

Electrical data at 20°CConductor resistance (0.22mm²)

≤ 85 Ohm/km

Conductor resistance (1.0 mm²)

≤ 19 Ohm/km

Insulation resistance

≥ 2 GOhm*km

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

= 1000 V

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

= 1500 V

Capacitance (1 kHz)

(Pair)

≈ 60 nF/km

Attenuation

(Pair)

see table

Near crosstalk

(Pair)

see table

Characteristic impedance (0.064 MHz)

(Pair)

(120 ±24) Ohm

Characteristic impedance (1 MHz)

(Pair)

(100 ±15) Ohm

Surface transfer impedance (30 MHz)

(Pair)

≤ 250 mOhm/m

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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

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 characteristic

Conductor material acc. to DIN EN 13602 Cu-ETP1-A...

Screen material acc. to DIN EN 13602 Cu-ETP1-A...-B

Insulating material acc. to DIN VDE 0819, part 103, table 1-L/MD (HD 624.3)

Jacket material acc. to DIN VDE 0207, compound type YM3

Flametest acc. to IEC 60332-1

Fire load 1.07 MJ/m

Application / Special feature:

Interbus IBS INBC for outdoor

Permissible temperature range : -30°C (-86°F) up to +70°C (+158°F)

min. bending diameter allowed: multiple 15 X \varnothing single 7.5X \varnothing

Weight about : 128 Kg/km (86 lb/1000ft)

Designation of order:

L45551-W91-B5

201080

L-2Y 3X1X1.0

2Y CY 3X2X0.22

1000 m (3281 ft) on non-returnable reel

