

LI9Y(ST)C11Y 4X2X0.15 GN



Design

Wire

Stranded bare copper wire 19 X 0.1
 Insulation of polypropylene

∅ 0.5 mm
 ∅ 1.0 mm

2 wires twisted to a pair

Core:


4 pairs stranded + fillers
 Sequence of colors: WHBU/BU - WHOG/OG - WHGN/GN - WHBN/BN
 Plastic tape, overlapped
 Plastic tape conductiv
 Shield braiding of tinned copper wires 0.1 mm dia
 Coverage about 90%
 Plastic tape, overlapped

∅ 5.2 mm

Jacket:

Polyurethane (PUR) GN
 Wall thickness about 0.8 mm

∅ (6.8 -0.3) mm

Printing: LEONI L TRAILING CABLE 4X2X0.15 * E47543-L  AWM 20963 80°C 30V
 + marking every meter, Textintervals about 1000 mm

Electrical data at 20°C

Loop resistance	≤	260	Ohm/km
Resistance difference	≤	3	%
Signal running time	≤	5.55	ns/m
Insulation resistance	≥	150	MOhm*km
Characteristic impedance 64 kHz		(125 ±25)	Ohm
Characteristic impedance 1 – 100 MHz		(100 ±15)	Ohm
Ground unbalance attenuation at 64 kHz	>	43	dB
Capacity unbalanced to ground at 1 kHz	≤	3400	pF/km

LEONI Special Cables GmbH

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

Return loss	4 – 20 MHz	≥	23 dB
	20 – 100 MHz	≥	23 dB - 10 log (f/20)
Surface transfer impedance	10 MHz	≤	70 mOhm/m
Operating voltage			30 V
Test voltage (wire/wire/screen rms 50Hz 1min)		=	700 V
Capacitance 800 Hz			50 nF/km

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
Attenuation typ. (dB/100m)	3	6	9	11	12	16	24	31
Near crosstalk (dB) ≥	62	53	47	44	42	40	35	32

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 50290-2-25, compound type full PP (HD 624.5)

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

Flame test acc. to IEC 60332-1-2

| UL-Style 20963 (80°C/30V)

Other characteristics:

RoHS compliant

Torsion ≤ ±30°/m

Silicon free

FCKW free

Halogen free

Oil resistance

Trailing cable for following requirements:

- 10 million bending cycles
- bending radius 7.5x max. ø
- at a speed of 180m/min
- acceleration 5 m/s²

Pulling force with ≤ 100N

Permissible temperature range : -40 °C up to + 80°C

Weight about : 55 Kg/km

Application / Special feature:

Similar to Cat.5

Designation of order:

L45581-B42-K8

202304

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2000 m on non-returnable reel