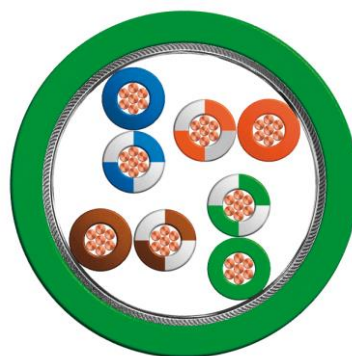


# FieldLink®

LI9YC(ST)11Y 4X2X0.15 GN



### Design

#### Wire

Stranded bare copper wire 19 X 0.1 (26AWG)  
Insulation of polypropylene

ø 0.5 mm  
ø 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  
Shield braiding of tinned copper wires 0.1 mm dia  
Coverage about 90%  
Plastic tape conductiv

#### Jacket:

Polyurethane (PUR) GN  
Wall thickness about 0.8 mm

ø (6.8 -0.3) mm

Printing: "marking every meter" LEONI L TRAILING CABLE 4X2X0.15 \* AWM 20963 80°C 30V \*  
"internal lot number"

### 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 at 100 MHz		(100 ±5) Ohm
Ground unbalance attenuation at 64 kHz	>	43 dB
Capacity unbalanced to ground at 1 kHz	≤	3400 pF/km

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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		≤	60 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, compoundtype 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 (must be testified)

Silicon free

FCKW free

Halogen free

Oil resistance

Trailing cable for following requirements:

- 10 million bending cycles (must be testified)

- bending radius 7.5x max. ø

- at a speed of 180m/min

- acceleration 5 m/s<sup>2</sup>

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

LI9YC(ST)11Y 4X2X0.15 GN

2000 m on non-returnable reel

LEONI Special Cables GmbH

Phone +49 (0)4491-292-292

Fax +49 (0)4491-292-169

Internet [www.leoni-special-cables.com](http://www.leoni-special-cables.com)

Date of issue : 28.09.2001

Technical modification reserved

Creator : LSC E / JANSSEN

Number : L45581-B42-K8-EN

Up-dating : 29.06.2016 Name: Langemeyer

Supersedes : 06.08.2013 E: 17.09.2008 M: 17.02.2006