

FieldLink[®] MC

LI9Y2Y 3X2X0.14 (D)
LI9Y 1X4X0.14
LI9Y 1X4X0.22
LI9Y C11Y 1X2X0.5 VZN GN



Design

Screened pair LI9Y(D)2Y 1X2X0.14 VZN

Wire

Stranded tinned copper wire 7 X 0.16 (26 AWG)

∅ 0.48 mm (0,019 in dia)

Insulation of Polypropylen (PP)

∅ 0.83 mm (0,033 in dia)

2 wires twisted to a pair

Stranded tinned copper drain wire (26 AWG) 0.14 mm²

Served shield tinned copper wire 0.1 mm dia (38 AWG)

Coverage about 90%

Plastic tape, overlapped

Jacket: Polyethylene (PE) BK

Wall thickness about 0.23 mm

∅ (2.4 +0.1 -0.05) mm (0,094 +0,004 -0,002 in dia)

Pair LI9Y 2X0.5 VZN

Wire

Stranded tinned copper wire 19 X 0.19 (20 AWG)

∅ 0.9 mm (0.035 in dia)

Insulation of Polypropylen (PP)

∅ 1.3 mm (0,051 in dia)

2 wires twisted to a pair

Quad LI9Y 4X0.14 VZN

Wire

Stranded tinned copper wire 7 X 0.16 (26 AWG)

∅ 0.48 mm (0,019 in dia)

Insulation of Polypropylen (PP)

∅ 0.83 mm (0,033 in dia)

Core:

4 wires twisted

Sequence of colors: GY-BU-WHYE-WHBK

Quad LI9Y 4X0.22 VZN

Wire

Stranded tinned copper wire 7 X 0.2 (24 AWG)

∅ 0.6 mm (0,024 in dia)

Insulation of Polypropylen (PP)

∅ 1.0 mm (0,039 in dia)

Core:

4 wires twisted

Sequence of colors: BNYE-BNGY-GNBK-GNRD

Core:

Filler as central element

3 pairs LI9Y(D)2Y 1X2X0.14 VZN

YE/GN-BK/BN-RD/OG

1 quad LI9Y 4X0.14 VZN

GY-BU-WHYE-WHBK

1 quad LI9Y 4X0.22 VZN

BNYE-BNGY-GNBK-GNRD

1 pair LI9Y 2X0.5 VZN

BNRD-BNBU

Plastic tape, overlapped

Shield braiding of tinned copper wires 0.13 mm dia (36 AWG) (≥ 1mm²)

Coverage about 85%

Plastic tape, overlapped

Jacket:

Polyurethane (PUR) GN - RAL 6018

∅ (9.4 ±0.4) mm (0.370 ±0.016 in dia)

Printing: LEONI L * FIELDLINK MC TRAILING * c  us AWM 20236 AWM I/II A/B 80 °C 30V FT1

3x(2x0.14) + 4x0.14 + 4x0.22 + 2x0.5 "internal lot number"

Electrical data at 20°C

Conductor resistance (0.14mm²)

≤ 148.9 Ohm/km

Conductor resistance (0.22mm²)

≤ 95.0 Ohm/km

Conductor resistance (0.5mm²)

≤ 43.3 Ohm/km

Insulation resistance

≥ 1000 MOhm*km

Capacitance (1 kHz) @ screened pair

nom. 80 ±20 nF/km

Characteristic impedance (3 MHz) @ screened pair

nom. 80 Ohm

Operating voltage

30 V

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

500 V

Frequency (MHz)	0.01	0.5	1	2	4	10	30
Shield transfer impedance (IEC 1196-1) (mOhm/m) ≤	20	20	20	20	20	50	150

Mechanical and thermal characteristics

Conductor/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) (Nonsticking material)

Stripping force of jacket 40 N up to 150 N, Samples 100mm, V = 100 mm/min

Oil resistant acc. to VDE 0282 Part 10 (HD 22.10 S1)

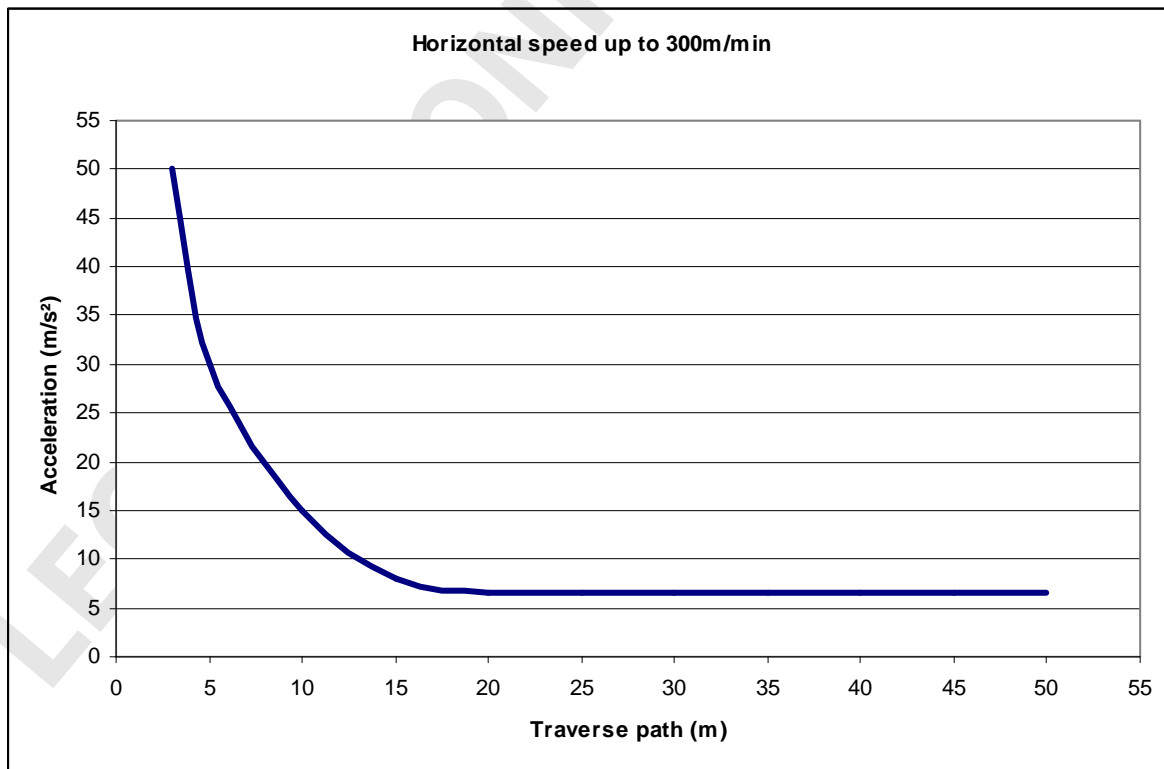
Flame retardant acc. to IEC 60332-1-2

UL-Style 20236 (80°C/30V)

CSA C22.2 No. 210 I/II A/B FT1

Trailing cable for the following requirements

- bendings 10 million
- acceleration 20 m/s²
- horizontal speed 300 m/min
- minimum bending radius 7.5 x outer diameter
- minimum static radius 4 x outer diameter
- torque angle ≤ ± 30°/ m



Other characteristics:

Halogen-free acc. to IEC 60754-1, Silicone-free, FCKW-free
RoHS compliant (Directive 2011/65/EC)

Temperature range:

- | | |
|-------------------------|--------------------------------------|
| - Stock temperature | -50 °C (-58 °F) up to 80 °C (176 °F) |
| - Operating temperature | -20°C (-4 °F) up to 60°C (140 °F) |
| - Short-time (≤ 1 sec) | 150°C (305°F) |

Max. pulling force (dynamic)	20 N/mm ²
Max. pulling force (static)	50 N/mm ²
Weight about	119 kg/km (79,8 lb/1000ft)

Designation of order:

L45551-W169-K18
214728
LI9Y2Y 3X2X0.14 (D)
LI9Y 1X4X0.14
LI9Y 1X4X0.22
LI9Y C11Y 1X2X0.5 VZN GN
2500 m (8202 ft) on non-returnable reel