

FieldLink[®] MC

LI9Y 4X2X0.14
LI9Y C11Y 1X4X0.5 VZN GN



Design

Wire LI9Y 1X0.5/1.3 VZN

Stranded tinned copper wire 19 X 0.19 (20 AWG)
Insulation of Polypropylene

ø 0.9 mm (0.035 in)
ø 1.3 mm (0,051 in)

Pair LI9Y 2X0.14/0.83 VZN

Stranded tinned copper wire 7 X 0.16 (26 AWG)
Insulation of Polypropylene

ø 0.48 mm (0,019 in)
ø 0.83 mm (0,033 in)

2 wires twisted to a pair

Core:

Filler as central element

4 pairs LI9Y 1X2X0.14/0.83 VZN RD/OG - GN/YE - BU/VT - BK/BN

4 wires LI9Y 1X0.5/1.3 VZN BKWH- BUWH -RDWH-YEWH

+ fillers

Plastic tape, overlapped

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

Coverage about 90%

Plastic tape, overlapped

ø 5.5 mm (0,217 in)

Jacket:

Polyurethane (PUR) GN

Wall thickness about 1.0 mm

ø (7.5 ±0.3) mm (0,295 ±0,012 in)

Printing: LEONI L * FIELDLINK MC TRAILING * cRUus AWM 20236 AWM I/II A/B 80 °C 30V FT1
4x2x0.14 + 4x0.5 "internal lot number"

Electrical data at 20°C

Conductor resistance (0.14mm ²)	≤	148.9	Ohm/km
Conductor resistance (0.5 mm ²)	≤	43.3	Ohm/km
Insulation resistance	≥	1000	MOhm*km
Capacitance (1 kHz) @ pair	nom.	80 ±20	nF/km
Characteristic impedance (3 MHz) @ 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)
 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
- horinzontal 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/mm²
 Max. pulling force (static) 50 N/mm²
 Weight about 83 kg/km (55 lb/1000ft)

Designation of order:

L45551-W129-K48
 215328
 LI9Y 4X2X0.14
 LI9Y C11Y 1X4X0.5 VZN GN
 3000 m (9842 ft) on non-returnable reel