

FieldLink® MC

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



Design

Screened pair LI9Y(D)2Y 1X2X0.14/0.83 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

∅ (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) (UL-Style 1589, Shore D65±5)

∅ 1.3 mm (0,051 in dia)

2 wires twisted to a pair

LEONI Special Cables GmbH

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

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

∅ 2.0 mm (0,079 in dia)

Core:

Filler as central element

1 quad LI9Y 4X0.14 VZN GY-BU-WHYE-WHBK

1 pair LI9Y 2X0.5 VZN BNRD-BNBU

3 pairs LI9Y(D)2Y 1X2X0.14 VZN YE/GN-BK/BN-RD/OG

Plastic tape, overlapped

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

Coverage about 85%

Plastic tape, overlapped

Jacket:

Polyvinylchloride (PVC) GN - RAL 6018

∅ (8.8 ± 0.4) mm (0.346 ± 0.016 in dia)

Printing: LEONI L * FIELDLINK MC FLEXIBLE * c  us AWM 2502 AWM I/II A/B 80 °C 30V FT1
3X(2X0.14) + 4x0.14 + 2x0.5 "internal lot number"

Electrical data at 20°C

Conductor resistance (0.14mm ²)	≤	148.9	Ohm/km
Conductor resistance (0.5mm ²)	≤	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. to DIN VDE 0281-1, compound type TM5 (HD 21.1) (Nonsticking material)
Oil resistant acc. to DIN VDE 0281-1 (TM5) (HD 21.1)
Flame retardant acc. to IEC 60332-1-2

UL-Style 2502 (80°C/30V)
CSA C22.2 No. 210 I/II A/B FT1

Reversed bending strength

- Bendings	2 million
- Maximum acceleration	5 m/s ²
- Maximum horizontal speed	180 m/min
- Minimum bending radius	100 mm
- Minimum static radius	5 x Out. Ø
- Maximum length horizontal of cable	5m (traverse path)
- Torque angle	≤ ± 30°/ m

Other characteristics:

Silicone-free, FCKW-free, RoHS compliant

Temperature range:

- Stock temperature	-20°C (-4 °F) up to 80 °C (176 °F)
- Operating temperature (static)	-20°C (-4 °F) up to 80 °C (176 °F)
- Operating temperature (dynamic)	-0°C (32 °F) up to 60 °C (140 °F)

Max. pulling force (dynamic)	20 N/mm ²
Max. pulling force (static)	50 N/mm ²

PVC weight with Phthalate	29.5 Kg/km
PVC weight without Phthalate	0.0 Kg/km
Weight about	105 kg/km (70,4 lb/1000ft)

Designation of order:

L45551-W129-K35

214785

LI9Y2Y 3X2X0.14 (D)

LI9Y 1X4X0.14

LI9Y_CY 1X2X0.5 VZN GN

| 2000 m (6562 ft) on non-returnable reel