

FieldLink® MC

LI9Y2Y	3X2X0.14 (D)
LI9Y	1X4X0.14
LI9Y C11Y	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

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)

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

Core:
4 wires twisted
Sequence of colors: GY-BU-WHYE-WHBK

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 tinned copper wires
Coverage about 85%
Plastic tape, overlapped

Jacket:

Polyurethane (PUR) GN - RAL 6018 \varnothing (8.8 ±0.3) mm (0,346 ±0,012 in dia)

Printing: LEONI L * FIELDLINK MC TRAILING * cAWus AWM 20236 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

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 suitable for the following requirements

- Bendings 10 million
- Maximum acceleration 50 m/s²
- Maximum horizontal speed 300 m/min
- Minimum bending radius 70 mm
- Minimum static radius 4 x outer diameter
- Maximum length horizontal of cable 50 m (traverse path)
- Torque angle ≤ ± 30°/ m

LEONI Special Cables GmbH Phone +49 (0)4491-292-292 Fax +49 (0)4491-292-169 Internet www.leoni-special-cables.com

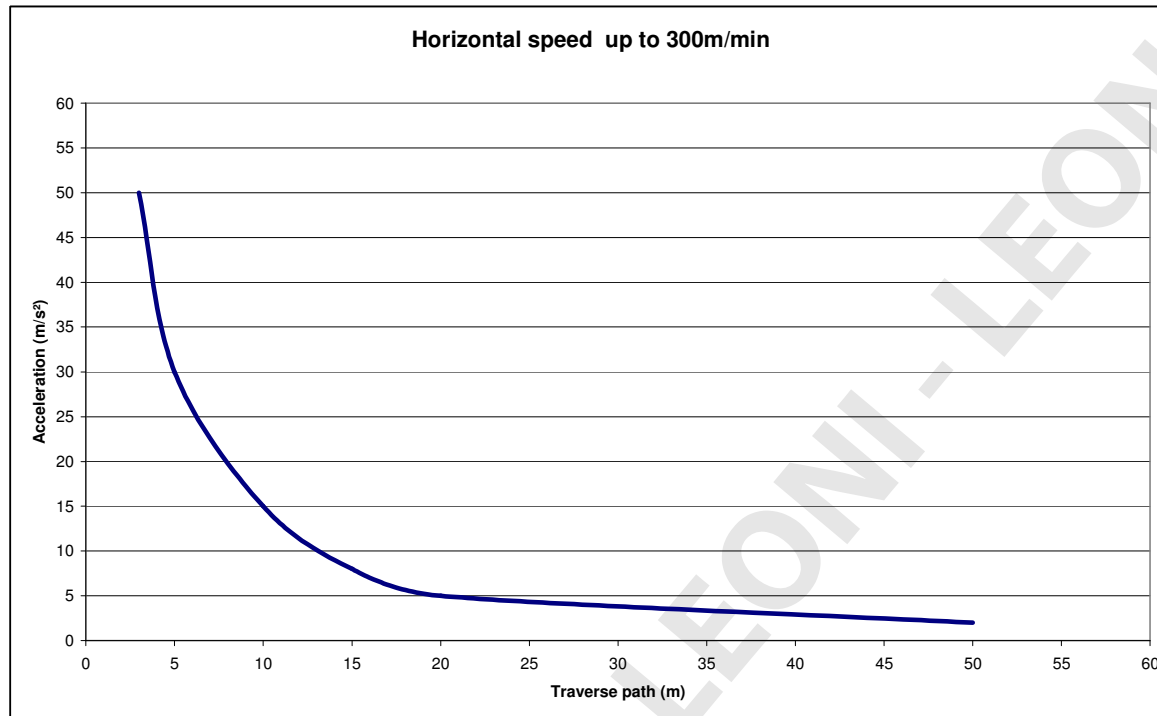
Date of issue : 26.06.2008

Technical modification reserved

Creator : LSC E / Turan

Number : L45551-W129-K38-EN

Up-dating : 31.05.2013 Name: Langemeyer
Supersedes : 03.12.2012 E: 26.06.2008 M: 19.01.2011



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 110 kg/km (74 lb/1000ft)

Designation of order:

L45551-W129-K38
 214729
 LI9Y2Y 3X2X0.14 (D)
 LI9Y 1X4X0.14
 LI9Y C11Y 1X2X0.5 VZN GN
 2000 m (6562 ft) on non-returnable reel

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