

FieldLink[®] MC

2Y(ST)C(ST) 2X2X0.75/1.56-100 LI
LI9Y-ZJ C11Y 5X1X2.5 OR



Design

Wire LI9Y 2.5/3.1 (Power)

Stranded bare copper wire (14 AWG)
Insulation of Polypropylene (PP)

∅ 2.0 mm (0.079 in dia)
∅ 3.1 mm (0.122 in dia)

2Y(ST)C 2X2X0.75/1.56-100 LI VZN

Wire
Stranded tinned copper wire (22 AWG)
Insulation of Polyethylene (PE)

∅ 0.75 mm (0.030 in dia)
∅ 1.58 mm (0.062 in dia)

4 wires twisted
Sequence of colors: YE, PK, GN, BU
Plastic tapes, overlapped
Alulaminare foil overlapped
Shield braiding of tinned copper wires (cross section $\geq 1 \text{ mm}^2$)
Coverage $\geq 85\%$
Plastic tape conductive
Plastic tape, overlapped

∅ 5.0 mm (0.197 in dia)

Core:

Filler as central element
1 unit 2Y(ST)C 2X2X0.75/1.56-100 LI VZN
5 wires LI9Y 2.5/3.1 RD, BK/1, BK/2, GNYE, BU
+ fillers
Plastic tape overlapped
Shield braiding of tinned copper wires
Coverage about 85%
Plastic tape overlapped

∅ 11.1 mm (0.437 in dia)

Jacket:

Polyurethane (PUR) OG

∅ (13.4 ±0.3) mm (0.528 ±0.012 in dia)

Printing: LEONI L * FIELDLINK MC HYBRID TRAILING *  AWM I/II A/B 80°C 1000V FT1 * 5G2.5 +
(1x4xAWG22)C C "internal lot number"

Electrical data at 20°C

Conductor resistance (2.5 mm ²)	≤	7.98	Ohm/km
Conductor resistance (0.34 mm ²)	≤	55	Ohm/km
Insulation resistance			
Element 2X2X0.75			
Wire/Wire	≥		GOhm*km
Wire/Screen	≥		GOhm*km
Power			
Wire/Wire	≥	20	MOhm*km
Wire/Screen	≥	20	MOhm*km
Power/ Element 2X2X0.75			
Wire/Wire	≥	1	GOhm*km
Wire/Screen	≥	20	MOhm*km
Ampacity (up to 40°C) (VDE 0891-1) (2.5 mm ²) (method of installation "C")	≤	10	A
Capacitance (1 kHz) (power wire BK/BK, RD/BU)	≤	150	nF/km
Volume resistivity (80°C ±2) (2.5 mm ²)	≥	10 ¹²	Ohm*cm
Operating voltage (peak)	≤	1000	V
Test voltage (wire/wire/screen rms 50Hz 1min)		4000	V

Frequency (MHz)	0.01	0.5	1	2	4	10	30
Transfer impedance shield overal screen ≤ (mOhm/m)	20	20	20	20	40	100	300

2Y(ST)C 2X2X0.75/1.58-100 LI VZN

Capacitance (1 kHz)	(50 ±10)	nF/km
Characteristic impedance 1 - 100 MHz	(100 ±5)	Ohm

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100
Attenuation max (dB/100m) (dB/100ft)	2,5 (0,76)	5 (1,52)	8 (2,44)	10 (3,05)	11,5 (3,51)	14,5 (4,42)	20 (6,10)	27 (8,23)
Near-end crosstalk min (dB)	62	53	47	44	42	40	35	32
Return loss min dB	19					17,1	14,1	12

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Number: L45467-J617-W8-EN
Up-dating L: 04.06.2013
Up-dating F: 25.02.2021

Frequency (MHz)	0.01	0.5		2	4	10	30
Transfer impedance shield Drive Cliq \leq (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 S2)

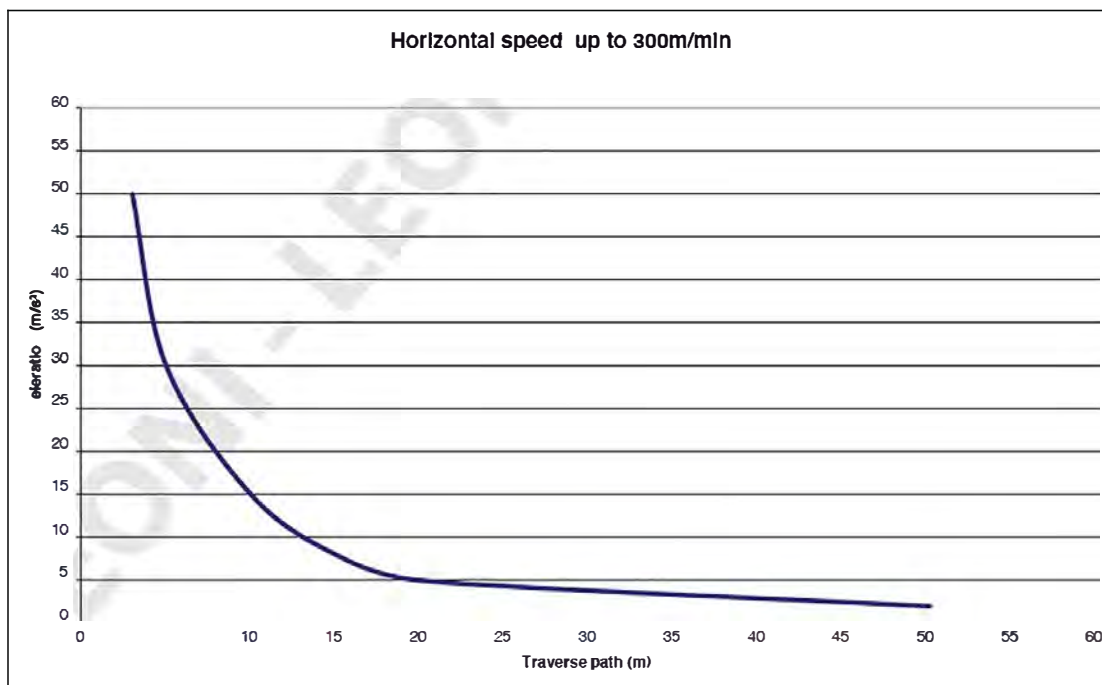
Flame retardant acc. to IEC 60332-1-1 to -1-3

UL-Style 21223 (80°C/1000V)

CSA C22.2 No. 210.2 I/II A/B FT1

Trailing cable suitable for the following requirements

- Bendings 10 million (must be testified)
- Maximum acceleration 50 m/s²
- Maximum horizontal speed 300 m/min
- Minimum bending radius 7.5 x outer diameter
- Minimum static radius 4 x outer diameter
- Maximum length horizontal of cable 50 m
- Torque angle $\leq \pm 30^\circ$ / m



Other characteristics:

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

Temperature range:

- Operating temperature (dynamic) -20°C (-4 °F) up to 60°C (140 °F)
- Operating temperature (static) -20°C (-4 °F) up to 80°C (176 °F)
- Stock temperature -50°C (-58 °F) up to 80°C (176 °F)

Max. pulling force (dynamic) 20 N/mm²
Max. pulling force (static) 50 N/mm²
Weight about 289 kg/km (194 lb/1000ft)

Designation of order:

L45467-J617-W8
226308
2Y(ST)C(ST) 2X2X0.75/1.56-100 LI
LI9Y-ZJ C11Y 5X1X2.5 OR
1000 m (3281 ft) on non-returnable reel