

FieldLink[®] MC

LI9YC11Y 8X2X0.18 VZN GN



Design

Wire

Stranded tinned copper wire 7 X 0.18 (25 AWG)

∅ 0.54 mm (0,021 in)

Insulation of Polypropylen (UL-Style 1589, Shore D65±5)

∅ 0.95 mm (0,037 in)

Pair

2 wires twisted to a pair

Core

Central element: 1 pair WHYE/WHGN

1. layer: 7 pairs WHRD/WHOG-WHBN/WHBK-GY/WH-BU/VT-YE/GN-RD/OG-BK/BN

Plastic tape, overlapped

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

Coverage about 85%

Plastic tape, overlapped


∅ 6.2 mm (0,244 in)

Jacket:

Polyurethane (PUR) GN - RAL 6018

Wall thickness about 0.9 mm

∅ (8.0 +0.2 -0.3) mm (0,315 +0,008 -0,012 in)

Printing: LEONI L * FIELDLINK MC TRAILING * c  us AWM 20236 AWM I/II A/B 80 °C 30V FT1
8x2x0.18 "internal lot number"

Electrical data at 20°C

Conductor resistance	≤	117	Ohm/km
Insulation resistance	≥	1000	MOhm*km
Capacitance (1 kHz)	nom.	60 ±20	nF/km
Characteristic impedance (3 MHz)	nom.	100	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)

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/mm²

Max. pulling force (static) 50 N/mm²

Weight about 87 kg/km (58 lb/1000ft)

Designation of order:

L45581-E82-K18

214726

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3000 m (9842 ft) on non-returnable reel