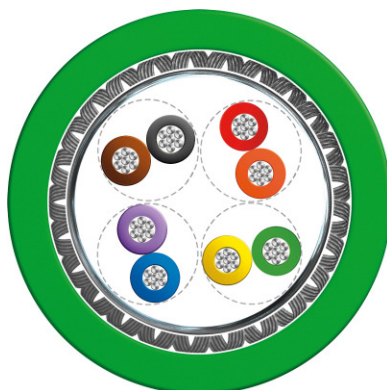


# FieldLink<sup>®</sup> MC

LI9YC11Y 4X2X0.18 VZN GN



## Design

### Wire

Stranded tinned copper wire 7 X 0.18 (25 AWG)  
Insulation of Polypropylen (PP)

∅ 0.54 mm (0,021 in)  
∅ 0.95 mm (0,037 in)

### Pair

2 wires twisted to a pair

### Core:

4 pairs twisted  
Sequence of colors: BK/BN-RD/OG-GN/YE-BU/VT  
Plastic tapes, overlapped  
Shield braiding of tinned copper wires 0.13 mm dia (36 AWG)  
Coverage about 85%  
Plastic tape, overlapped

∅ 4.6 mm (0,181 in)

### Jacket:

Polyurethane (PUR) GN - RAL 6018  
Wall thickness about 0.8 mm

∅ (6.4 ±0.3) mm (0.252 ±0.012 in)

Printing: LEONI L \* FIELDLINK MC TRAILING \* c  us AWM 20236 AWM I/II A/B 80 °C 30V FT1  
4x2x0.18 "internal lot number"

## Electrical data at 20°C

Conductor resistance	≤	117	Ohm/km
Insulation resistance	≥	1000	MOhm*km
Capacitance (1 kHz)	nom.	70 ±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/s<sup>2</sup>
- 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/mm<sup>2</sup>

Max. pulling force (static) 50 N/mm<sup>2</sup>

Weight about 56 Kg/km (37 lb/1000ft)

### Designation of order:

L45551-A42-K18

214725

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3000 m (9842 ft) on non-returnable reel