

PROFINET

Type C Industrial Ethernet Cat 5e ES Trailing Cable (TPU)



Cable Design

Wire

Conductor	Stranded tinned copper wire 7/0,25mm (22awg) Ø 0,75 mm
Insulation	Polyethylene (PE) Ø 1,50 mm

Core

Central Element	Filler	
1° Layer	4 wires twisted (WH-YE-BU-OG)	
Tape	Plastic tape overlapped	
Easystrip Jacket	Soft Thermoplastic copolymer	Ø 3,90 mm
Screen	Alulamine foil overlapped	
Braid	Tinned copper wire braid, 85% coverage	Ø 4,70 mm

Outer Jacket	Thermoplastic Polyurethane (TPU) Green	Ø 6,5 ± 0,20 mm
Wall thickness	0,9 mm	



Characteristics

- Flame retardant acc. to IEC 60332-1-2 and UL 2556 Sec. 9.4 (VW 1),
- Halogen free acc. to IEC 60754,
- Oil resistant acc. to IEC 60811-2-1 and UL 13 Sec. 40 (60 °C),
- Sunlight resistant acc. to UL 2556 Sec. 4.2.8.5,

Specification

Part Number	Type
L45467-J17-B18	Industrial Ethernet Cat5e ES, PROFINET Type C trailing cable, 2x2x22AWG7, UL listed: CMX

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Electrical Data @ 20 °C

Loop resistance	≤	120	Ohm/km
Signal run time	≤	5,3	ns/m
Insulation resistance	≥	500	MOhm * km
Characteristic Impedance		1-100 MHz	100±15 Ohm
Capacitance (nom.)		1 kHz	52 nF/km
UL-Rating			300 V
Surface transfer impedance		10 MHz	≤ 20 mOhm/m
Test Voltage (wire/wire/screen rms 50Hz min.)	=	2000	V

Frequency (MHz)	1	4	10	16	20	31,25	62,5	100
Attenuation typ. Value (dB/100m)	2,1	4	6,3	8	9	11,4	16,5	21,3
NEXT typ. Value (dB/100m)	80	76	70	65	63	60	55	50

The electrical requirements acc. to EN 50288-2-1.

Mechanical & Thermal Characteristics

Permissible temperature range	-40 ~ +80	°C
During Laying temperature range	-20 ~ +60	°C
Transport and Storage temperature range	-50 ~ +70	°C
Min. Bending radius allowed	repeated	7,5 x Ø
	single	5 x Ø
Weight (approx.)	61	kg/km
Tensile strength	≤ 150	N
Trailing Cable for following requirements	3 million bending cycles	
	diameter 200mm	
	at a speed of 4 m/s	
	acceleration 4 m/s ²	

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