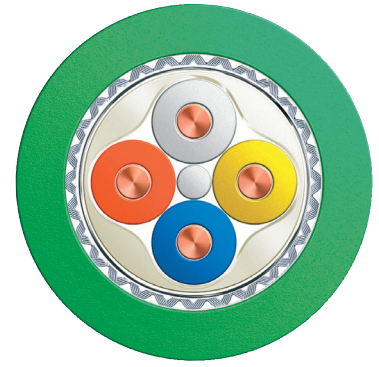


PROFINET

Type A Industrial Ethernet Cat 5e ES (PVC)



Cable Design

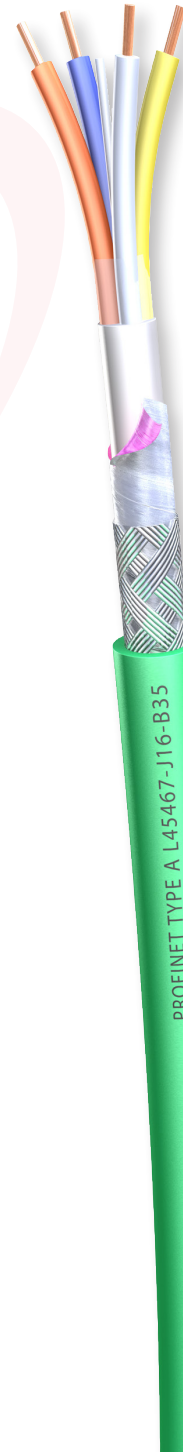
Wire

Conductor	Solid bare copper wire (22awg)	Ø 0,64 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 Polyvinylchloride (PVC)	Ø 3,90 mm
Screen	Aluminum foil overlapped	
Braid	Tinned copper wire braid, 90% coverage	Ø 4,50 mm

Outer Jacket	Polyvinylchloride (PVC), Green	Ø 6,5 ± 0,20 mm
Wall thickness	0,9 mm	



Characteristics

- Flame retardant acc. to IEC 60332-1-2 and UL 1685 (CSA FT 4),
- Limited oil resistant,
- Sunlight resistant acc. to UL 2556 Sec. 4.2.8.5,
- UL-Style 21694 (600 V)

Specification

Part Number	Type
L45467-J16-B35	Industrial Ethernet Cat5e ES, PROFINET cable for permanent installation, 2x2x22AWG1, UL listed: CMG and PLTC and ITC

PROFINET

Type A Industrial Ethernet Cat 5e ES (PVC)

Electrical Data @ 20°C

Loop resistance	≤	115	Ohm/km
Signal run time	≤	5,3	ns/m
Insulation resistance	≥	500	MOhm*km
Characteristic Impedance	1-100 MHz	100±15	Ohm
Surface Transfer Impedance	10 MHz	≤ 10	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)	1,6	3,2	5,2	6,9	7,8	10,5	15	19,5
NEXT typ. Value (dB/100m)	80	75	70	65	63	60	55	50

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

Mechanical & Thermal Characteristics

Permissible temperature range	-40 ~ +80	°C
Min. Bending radius allowed	repeated	7,5 x Ø
Min. Bending radius allowed	single	3 x Ø
Tensile loading	≤	150 N
Weight (approx.)		66 kg/km

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