

PROFIBUS DP

ES Cable for flexible Installation (PVC)

Cable Design

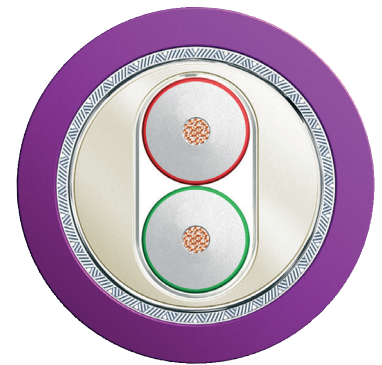
Wire

Conductor	Stranded bare copper wire 19 X 0.14	Ø 0,67 mm
Insulation	Foamed Polyethylene (PE) with skin	Ø 2,56 mm

Core

Pair	2 wires twisted to a pair (RD-GN)	
Tape	Plastic tape overlapped	
Easystrip Jacket	Soft Polyvinylchloride (PVC)	
Screen	Alulamine foil overlapped	
Braid	Tinned copper wire braid, 55% coverage	Ø 6,20 mm

Outer Jacket	Polyvinylchloride (PVC), Violet	Ø 8,0 ± 0,40 mm
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Characteristics

- Cold bend test acc. DIN VDE 0473 part 811-1-4 ; after 16 hour storage at -40°
- Flame retardant acc. to IEC 60332-3-24 (Cat. C)
- Flame retardant acc. to UL 1685 (CSA FT 4)
- Sunlight resistant acc. to UL 1581 Sec.1200
- RoHS compliant (Directive 2011/65/EC)

Specification

Part Number	Type
L45467-G16-C375	PROFIBUS DP ES cable for flexible installation (easy to strip) PVC

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ES Cable for flexible Installation (PVC)

Electrical Data @ 20°C

Loop resistance		≤	133	Ohm/km
Insulation resistance		≥	16	GOhm*km
Characteristic Impedance	3-20 MHz		150±15	Ohm
Characteristic Impedance	31,25 - 38,4 kHz		185±18,5	Ohm
Characteristic Impedance	9,6 kHz		270±27	Ohm
Attenuation	16 MHz	≤	49	dB/km
Attenuation	4 MHz	≤	25	dB/km
Attenuation	38,4 kHz	≤	4	dB/km
Attenuation	9,6 kHz	≤	3	dB/km
Inductance (31,25 kHz)		≈	1000	μH/km
Capacitance (1 kHz)			28	nF/km
Capacitance unbalance to ground		≤	1500	μH/km
Operating voltage (effective value)		≤	100	V
Rel. Velocity of Propagation		≈	81	%
Test voltage (wire/wire/screen rms 50Hz 1 min)		=	2000	V

Mechanical & Thermal Characteristics

Permissible temperature range	-40 ~ +80°C
Min. bending radius allowed	repeated 7X ø, single 5X ø
Weight (approx.)	74 kg/km

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