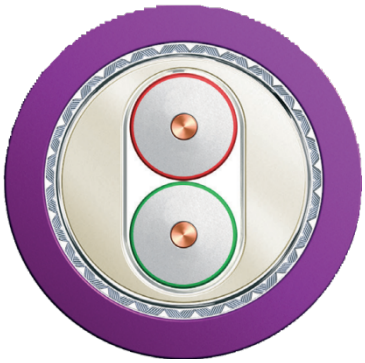
MASER COMMUNICATIONS

PROFIBUS DP

ES Cable for Permanent Installation (PVC)



Cable Design

Wire		
Conductor	Solid bare copper wire (22awg)	Ø 0,65 mm
Insulation	Foamed Polyethylene (PE) with skin	Ø 2,55 mm
Core		
Pair	2 wires twisted to a pair (RD-GN)	
Tape	Plastic tape overlapped	
Easystrip Jacket	Soft Polyvinylchloride (PVC)	Ø 5,40 mm
Screen	Alulaminate foil overlapped	
Braid	Tinned copper wire braid, 55% coverage	Ø 6,20 mm
Outer Jacket	Polyvinylchloride (PVC), Violet	Ø 8,0 ± 0,40 mm



Characteristics

- Flame retardant acc. to IEC 60332-3-24 and UL 1685 (CSA FT 4),
- Cold bending resistant acc. to IEC 60811-1-4,
- Sunlight resistant acc. to UL 2556 Sec. 4.2.8.5,
- UL-Style 21694 (600 V)

Specification

Part Number	Type
L45467-G16-C185	PROFIBUS DP ES cable for permanent installation (easy to strip), 2x22AWG1, UL listed: CMG and CL3 PVC

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ES Cable for Permanent Installation (PVC)

Electrical Data @20˚C

Loop resistance		≤	110	Ohm/km
Screen resistance		≤	9,5	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	≤	42	dB/km
Attenuation	4 MHz	≤	22	dB/km
Attenuation	38,4 kHz	≤	4	dB/km
Attenuation	9,6 kHz	≤	2,5	dB/km
L/R Ratio		≤	15	µH/Ohm
Inductance (31,25 kHz)		≈	1000	µH/km
Inductance Value			900	µH/km
Capacitance (1 kHz)		≈	28,5	nF/km
Unbalance to ground		≤	1500	pF/km
Operating voltage (effective value)		≤	100	V
UL-Rating			600	V
Rel. Velocity of Propagation		≈	81	%
Test Voltage (DC 3 sec)		=	3600	V

Mechanical & ThermalCharacteristics

Permissable temperature range	-40 ~ +80		˚C
Bending diameter	≥	150	mm
Pulling force with	≤	100	N
Weight (approx.)		80	kg/km

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