

PROFIBUS DP

DataGuard® Armoured (SWA) 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	Alulaminat foil overlapped	
Braid	Tinned copper wire braid, 55% coverage	Ø 6,20 mm

Inner Jacket	Polyvinylchloride (PVC), Violet	Ø 8,0 ± 0,40 mm
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Armour	DataGuard® Steel Wire Armour (DSWA)	
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Outer Jacket	Polyvinylchloride (PVC), Violet or Black	Ø 12,80 ± 0,80 mm
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Characteristics

- Indoor/Outdoor applications
- Mechanical protection
- Rodent Protection
- Direct Burial
- UV-Stable and colourfast



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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 & Thermal Characteristics

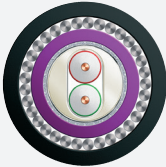
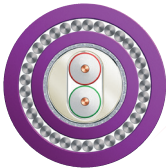
Permissible temperature range		-40 ~ +80	°C
Min. Bending radius		10	x Ø (see Ø tolerance)
Weight (approx.)		370	kg/km

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Specification

Part Number	Cross Section	Type
11L45467-G16-C185-01		Black PROFIBUS DP ES cable for permanent installation (easy to strip), 2x22AWG1, DataGuard® (SWA) / PVC
11L45467-G16-C185-09		Violet PROFIBUS DP ES cable for permanent installation (easy to strip), 2x22AWG1, DataGuard® (SWA) / PVC

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