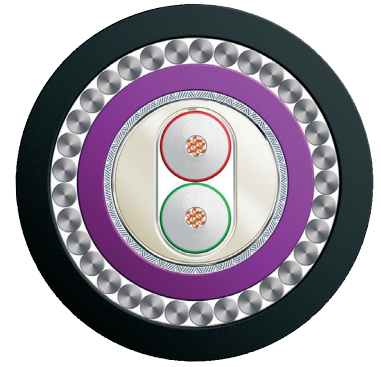


DataGuard® (SWA)

PROFIBUS DP Vibration Resistant Installation PVC



Cable Design

Wire

Conductor	Stranded bare copper wire 7/0,25mm (22awg)	Ø 0,76 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	Aluminated foil overlapped	
Braid	Tinned copper wire braid, 85% coverage	Ø 6,20 mm

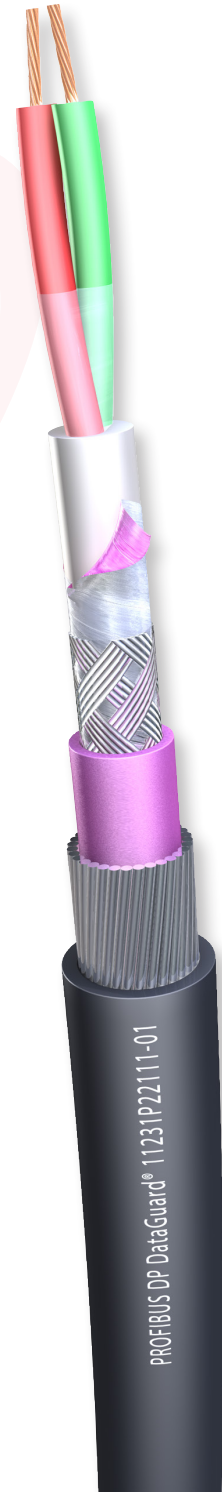
Inner Jacket	Polyvinylchloride (PVC), Violet	Ø 8,0 ± 0,40 mm
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Armour	DataGuard® Steel Wire Armour (DSWA)	
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Outer Jacket	Polyvinylchloride (PVC), Violet or Black	Ø 12,80 ± 0,80 mm
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Characteristics

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



DataGuard® (SWA)

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Electrical Data @ 20°C

Loop resistance		≤	110	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
Capacitance (1 kHz)		≈	28,5	nF/km
Capacitance Unbalance to ground		≤	1500	pF/km
Operating voltage		≤	60	V
Test Voltage (wire/wire/screen rms 50Hz 1 min)			1000	V

Mechanical & Thermal Characteristics


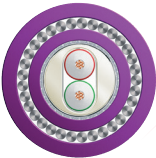
Permissible temperature range		-25 ~ +80	°C
Min. Bending radius		10	x Ø (see Ø tolerance)
Weight (approx.)		379	kg/km

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PROFIBUS DP Vibration Resistant Installation PVC

Specification

Part Number	Cross Section	Type
11231P22111-01		Black PROFIBUS DP ES cable for Vibration Resistant installation (easy to strip), 2x22AWG7, DataGuard® (SWA) / PVC
11231P22111-09		Violet PROFIBUS DP ES cable for Vibration Resistant installation (easy to strip), 2x22AWG7, DataGuard® (SWA) / PVC

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