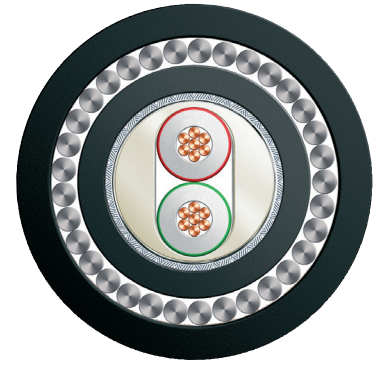


DataGuard® (SWA)

PROFIBUS PA Vibration Resistant Installation LSZH



Cable Design

Wire

Conductor	Stranded bare copper wire 7/0,40mm (18awg) Ø 1,20 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 Thermoplastic copolymer Ø 5,40 mm
Screen	Aluminated foil overlapped
Braid	Tinned copper wire braid, 90% coverage Ø 6,10 mm

Inner Jacket	Low Smoke Zero Halogen (LSZH) Ø 8,0 ± 0,20 mm
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Armour	DataGuard® Steel Wire Armour (DSWA)
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Outer Jacket	LSZH FireFighter®, Black, Blue or Orange 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

Conductor resistance		≤	22	Ohm/km
Screen resistance		≤	9	Ohm/km
Insulation resistance		≥	10	MOhm * km
Capacitance (1 kHz)		≈	54	nF/km
Characteristic Impedance	31,25 kHz		100±20	Ohm
Attenuation	39 kHz	≤	3	dB/km
Capacitance unbalance e		≤	2	nF/km
Surface transfer impedance	20 MHz	≤	5	mOhm/m
Rel. Velocity of Propagation		≈	72	%
UL-Rating			300	V
Test Voltage (wire/wire/screen rms 50Hz 1 min.)			2000	V

Mechanical & Thermal Characteristics

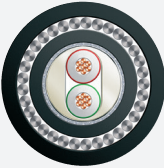
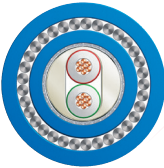
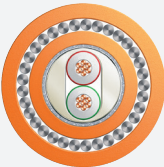
Permissible temperature range			-25 ~ +80	°C
Min. Bending radius			10	x Ø (see Ø tolerance)
Weight (approx.)			394	kg/km

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PROFIBUS PA Vibration Resistant Installation LSZH

Specification

Part Number	Cross Section	Type
14231P1854-1		Black PROFIBUS PA ES cable for Vibration Resistant installation (easy to strip), 2x18AWG7, DataGuard® (SWA) / PVC
14231P1854-1		Blue PROFIBUS PA ES cable for Vibration Resistant installation (easy to strip), 2x18AWG7, DataGuard® (SWA) / PVC
14231P1854-1		Orange PROFIBUS PA ES cable for Vibration Resistant installation (easy to strip), 2x18AWG7, DataGuard® (SWA) / PVC

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