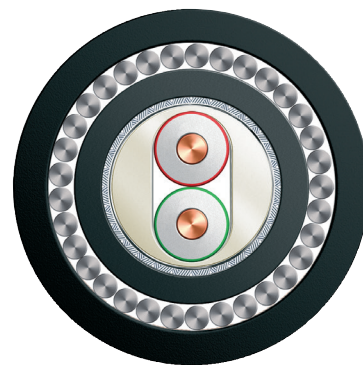


DataGuard® (SWA)

PROFIBUS PA Permanent Installation LSZH FireFighter®



Cable Design

Wire

Conductor	Solid bare copper wire (18awg)	Ø 1,05 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	Aluminium foil overlapped	
Braid	Tinned copper wire braid, 85% coverage	Ø 6,20 mm

Inner Jacket Low Smoke Zero Halogen (LSZH) Ø 8,0 ± 0,40 mm

Armour DataGuard® Steel Wire Armour (DSWA)

Outer Jacket LSZH FireFighter®, Black or Blue Ø 12,80 ± 0,80 mm

Characteristics

- Indoor/Outdoor applications
- Mechanical protection
- Rodent Protection
- Direct Burial
- UV-Stable and colourfast
- Flame retardant acc. to IEC 60332-3-24
- Halogen Free acc. to IEC 60754-1/2
- Smoke density acc. to IEC 61034-1/2



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Electrical Data @ 20°C

Conductor resistance		≤	22	Ohm/km
Insulation resistance		≥	10	MOhm*km
Capacitance (1 kHz) wire/wire		≈	50	nF/km
Capacitance (1 kHz) wire/screen		≈	92	nF/km
Characteristic Impedance	31,25 kHz		100±20	Ohm
Attenuation	39 kHz	≤	3	dB/km
Capacitance unbalance e		≤	2	nF/km
Inductance	31,25 kHz		650	μH/km
Surface transfer impedance	20 MHz	≤	5	mOhm/m
Rel. Velocity of Propagation		≈	81	%
Operating voltage			100	V
UL-Rating			600	V
Test Voltage (wire/wire/screen rms 50Hz 1 min.)			2000	V

Mechanical & Thermal Characteristics

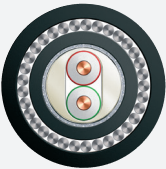
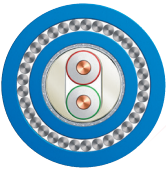
Permissible temperature range			-25 ~ +80	°C
Min. Bending radius			10	x Ø (see Ø tolerance)
Weight (approx.)			386	kg/km

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DataGuard® (SWA)

PROFIBUS PA Permanent Installation LSZH FireFighter®

Specification

Part Number	Cross Section	Type
14L45467-J20-C46		Black PROFIBUS PA ES, cable for permanent installation (easy to strip), 2x18AWG1, DataGuard® (SWA)/LSZH FireFighter®
14L45467-J20-C86		Blue PROFIBUS PA ES, cable for permanent installation in hazardous Ex-areas (easy to strip), 2x18AWG1, DataGuard® (SWA)/LSZH Fire-Fighter®

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