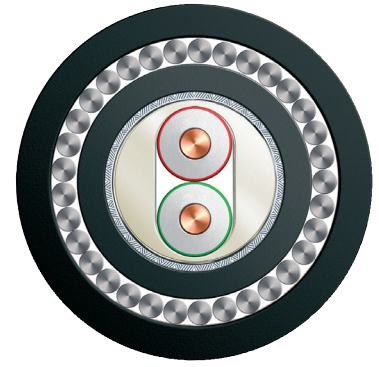


# DataGuard® (SWA)

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	Aluminized 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

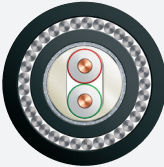
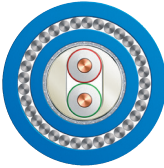
Permissible temperature range		-25 ~ +80	°C
Min. Bending radius		10	x Ø (see Ø tolerance)
Weight (approx.)		386	kg/km

*Belcom Cables Ltd. ("Belcom") reserves the right to make changes to the product described in this specification without prior notice. Belcom does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.*

# 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®