

# PROFIBUS DP ES Cable for Permanent Installation LSZH FireFighter® DataGuard® (SWA) / LSZH FireFighter®

## Cable Design

### Wire

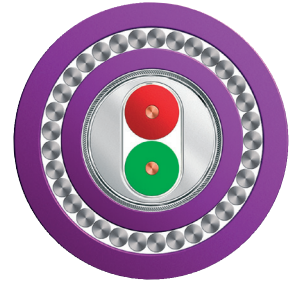
Conductor	Solid bare copper wire (22awg)	Ø 0,65 mm
Insulation	Foamed Polyethylene (PE) with skin	Ø 2,55 mm

### Core

Pair	2 wires twisted to a pair (RD-GN)	
Tape	Plastic tape overlapped	
Easystrip Jacket	Soft Thermoplastic copolymer	Ø 5,40 mm
Screen	Alulamine foil overlapped	
Braid	Tinned copper wire braid, 55% coverage	Ø 6,20 mm
Inner Jacket	LSZH FireFighter®, Violet	Ø 8,0 ± 0,40 mm
Flame retardant	acc. to IEC 60332-3-24 and UL 1685 Sec. 1160 (Vertical Tray),	
Halogen free	acc. to IEC 60754,	
Sunlight resistant	acc. to UL 2556 Sec. 4.2.8.5,	
Limited oil resistant,		

**Armour** DataGuard® Steel Wire Armour (DSWA)

**Outer Jacket** LSZH FireFighter®, Violet, Black or Blue Ø 12,50 ± 0,50 mm  
UV-Stable and colourfast



## Specification

Part Number	Type
14L45467-G16-C286-01	Black PROFIBUS DP ES, cable for permanent installation (easy to strip, LSZH), 2x22AWG1, UL listed: CM. LSZH / DataGuard® (SWA) / LSZH FireFighter®
14L45467-G16-C286-02	Blue PROFIBUS DP ES, cable for permanent installation (easy to strip, LSZH), 2x22AWG1, UL listed: CM. LSZH / DataGuard® (SWA) / LSZH FireFighter®
14L45467-G16-C286-09	Violet PROFIBUS DP ES, cable for permanent installation (easy to strip, LSZH), 2x22AWG1, UL listed: CM. LSZH / DataGuard® (SWA) / LSZH FireFighter®

## 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
	31,25 - 38,4 kHz		185±18,5	Ohm
	9,6 kHz		270±27	Ohm
Attenuation	16 MHz	≤	42	dB/100m
	4 MHz	≤	22	dB/100m
	38,4 kHz	≤	4	dB/100m
	9,6 kHz	≤	2,5	dB/100m
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		-25 ~ +80	°C
Min. Bending radius		10	x Ø (see Ø tolerance)
Weight (approx.)		362	kg/km