

PROFIBUS PA

ES Cable for Permanent Installation (LSZH)

Cable Design

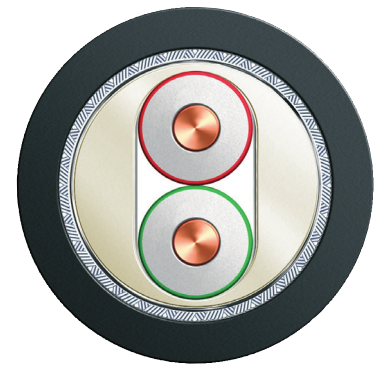
Wire

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	Alulamine foil overlapped	
Braid	Tinned copper wire braid, 90% coverage	Ø 6,20 mm

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

- acc. IEC 61158-2 Type A
- Flame retardant acc. to IEC 60331-2, IEC 60332-3-24
- Halogen free acc. to IEC 60754-1/2
- Smoke density acc. to IEC 61034
- Oil resistant acc. to UL 758 Sec. 15 (60 °C),
- Sunlight resistant acc. to UL 1581 Sec. 1200,

Specification

Part Number	Type
L45467-J20-C46	Black PROFIBUS PA ES, cable for permanent installation (easy to strip), 2x18AWG1, UL listed: CM and CL3. LSZH
L45467-J20-C86	Blue PROFIBUS PA ES, cable for permanent installation in hazardous Ex-areas (easy to strip), 2x18AWG1, UL listed: CM and CL3, LSZH
L45467-J20-C336	Orange PROFIBUS PA ES, cable for permanent installation (easy to strip), 2x18AWG1, UL listed: CM and CL3. LSZH



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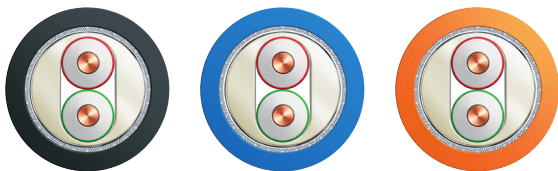
ES Cable for Permanent Installation (LSZH)

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			-20 ~ +80	°C
Min. Bending radius allowed	repeated		10	x Ø
Min. Bending radius allowed	single		5	x Ø
Tensile strength		≤	150	N
Weight (approx.)			96	kg/km



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