

# PROFIBUS PA

*ES Cable for Vibration Resistant Installation (LSZH)*

## Cable Design

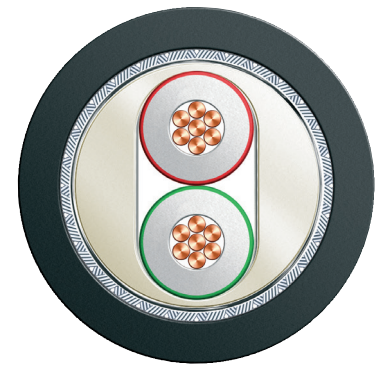
### Wire

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	Aluminium foil overlapped	
Braid	Tinned copper wire braid, 90% coverage	Ø 6,10 mm

Outer Jacket	Low Smoke Zero Halogen (LSZH)	Ø 8,0 ± 0,20 mm
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## Characteristics

- acc. IEC 61158-2 Type A
- Flame retardant acc. to IEC 60332-1-2,
- Halogen free acc. to IEC 60754,
- Smoke density acc. to IEC 61034,
- UV-resistant

## Specification

Part Number	Type
231P1854-1	Black PROFIBUS PA ES, cable for Vibration Resistant installation (easy to strip), 2x18AWG1, LSZH
231P1854-2	Blue PROFIBUS PA ES, cable for Vibration Resistant installation in hazardous Ex-areas (easy to strip), 2x18AWG1, LSZH
231P1854-8	Orange PROFIBUS PA ES, cable for Vibration Resistant installation (easy to strip), 2x18AWG1, LSZH

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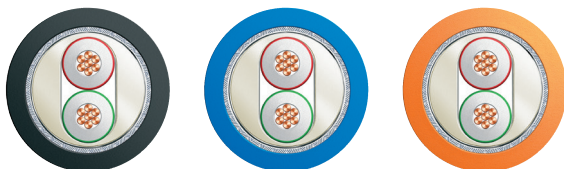
ES Cable for Vibration Resistant Installation (LSZH)

## 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	%
Operating voltage (peak)		≤	100	V
Test Voltage (wire/wire rms 50Hz 1 min.)			1000	V
Test Voltage (wire/screen rms 50Hz 1 min.)			800	V

## Mechanical & Thermal Characteristics

Temperature range	Transport and fixed installation	-35 ~ +80	°C
Temperature range	Installation and flexible use	-25 ~ +80	°C
Min. Bending radius allowed	repeated	8	x Ø
Min. Bending radius allowed	single	4	x Ø
Weight (approx.)		94	kg/km



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