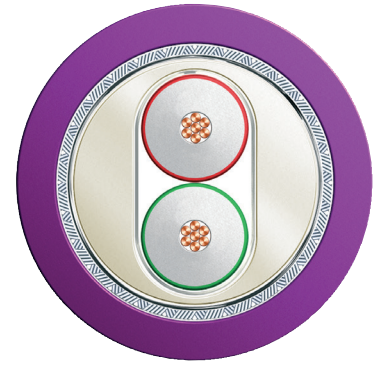


# PROFIBUS DP

ES Cable for Vibration Resistant Installation (LSZH)



## Cable Design

### Wire

Conductor	Stranded bare copper wire 7/0,25mm (22awg)	Ø 0,76 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 5,50 mm
Screen	Alulaminare foil overlapped	
Braid	Tinned copper wire braid, 85% coverage	Ø 6,20 mm

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

- Flame retardant acc. to IEC 60332-1
- Halogen free acc. to IEC 60754,-1
- Smoke density acc. to IEC 61034

## Specification

Part Number	Type
231P2244	PROFIBUS DP ES cable for Vibration Resistant installation (easy to strip), 2x22AWG7 LSZH



# PROFIBUS DP

## ES Cable for Vibration Resistant Installation (LSZH)

### Electrical Data @ 20 °C

Loop resistance		≤	110	Ohm/km
Insulation resistance		≥	16	GOhm*km
Characteristic Impedance	3-20 MHz		150±15	Ohm
Characteristic Impedance	31,25 - 38,4 kHz		185±18,5	Ohm
Characteristic Impedance	9,6 kHz		270±27	Ohm
Attenuation	16 MHz	≤	42	dB/km
Attenuation	4 MHz	≤	22	dB/km
Attenuation	38,4 kHz	≤	4	dB/km
Attenuation	9,6 kHz	≤	2,5	dB/km
Capacitance (1 kHz)		≈	28,5	nF/km
Capacitance Unbalance to ground		≤	1500	pF/km
Operating voltage		≤	60	V
Test Voltage (wire/wire/screen rms 50Hz 1 min)		=	1000	V

### Mechanical & Thermal Characteristics

Permissible temperature range		-25 ~ +80	°C
Min. Bending radius allowed	repeated	10	x Ø
Min. Bending radius allowed	single	5	x Ø
Weight (approx.)		84	kg/km

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