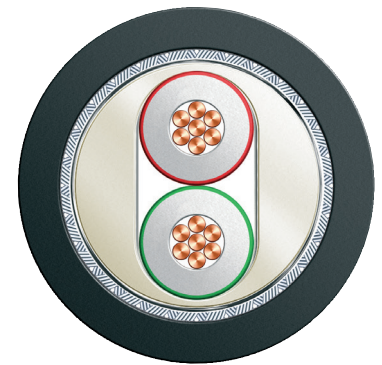


# PROFIBUS PA

ES Cable for Vibration Resistant Installation (PVC)

## 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 Polyvinylchloride (PVC) Ø 5,40 mm
Screen	Alulaminare foil overlapped
Braid	Tinned copper wire braid, 90% coverage Ø 6,10 mm

Outer Jacket	Polyvinylchloride (PVC) Ø 8,0 ± 0,20 mm
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## Characteristics

- acc. IEC 61158-2 Type A
- Sunlight resistant acc. to UL 1581 Sec. 1200,
- UL-Style 2464 (80°C/300V)

## Specification

Part Number	Type
231P18211	Black PROFIBUS PA ES, cable for Vibration Resistant installation (easy to strip), 2x18AWG1, UL listed: CM and CL3, PVC
231P18211-2	Blue PROFIBUS PA ES, cable for Vibration Resistant installation in hazardous Ex-areas (easy to strip), 2x18AWG1, UL listed: CM and CL3, PVC
231P18211-8	Orange PROFIBUS PA ES, cable for Vibration Resistant installation (easy to strip), 2x18AWG1, UL listed: CM and CL3, PVC



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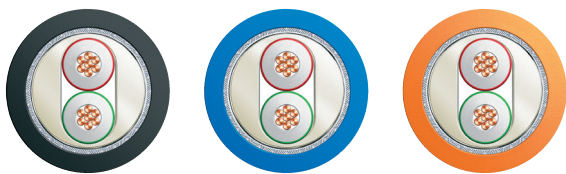
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## Electrical Data @ 20°C

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	%
UL-Rating			300	V
Test Voltage (wire/wire/screen rms 50Hz 1 min.)			2000	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.)			104	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.*