

PROFIBUS PA

Long Distance Cable FR-PVC



Cable Design

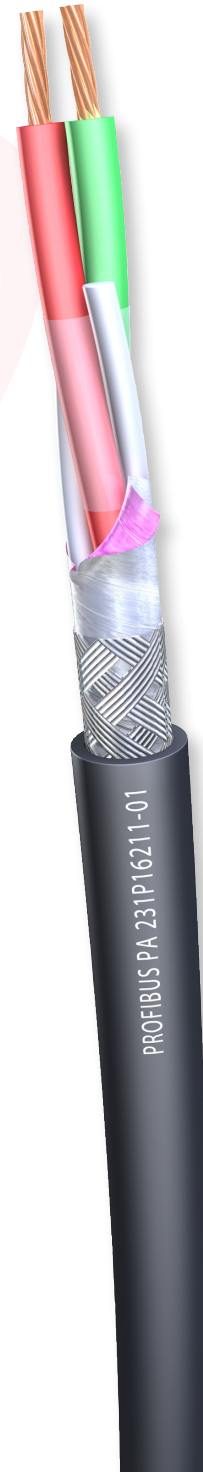
Wire		
Conductor	Solid bare copper wire 7/0,50mm	(16awg)
	Solid bare copper wire 7/0,64mm	(14awg)
Insulation	Polyethylene (PE)	Ø 3,20 mm
Core		
Pair	2 wires twisted to a pair (RD-GN) with fillers	
Tape	Plastic tape overlapped	
Screen	Alulaminat foil overlapped	
Braid	Tinned copper wire braid, 85% coverage	
Outer Jacket		
Diameter	Flame Retardant Polyvinylchloride (FR-PVC)	
	16AWG : Ø 9,50 ± 0,30 mm	
	14AWG : Ø 11,50 ± 0,30 mm	

Characteristics

- Flame retardant acc. to IEC 60332-1

Specification

Part Number	Type
231P16211-01	Black PROFIBUS PA ES, cable for permanent installation (easy to strip), 2x16AWG7. FR-PVC
231P14211-01	Black PROFIBUS PA ES, cable for permanent installation (easy to strip), 2x14AWG7. FR-PVC
231P16211-02	Blue PROFIBUS PA ES, cable for permanent installation in hazardous Ex-areas (easy to strip), 2x16AWG7. FR-PVC
231P14211-02	Blue PROFIBUS PA ES, cable for permanent installation in hazardous Ex-areas (easy to strip), 2x14AWG7. FR-PVC



PROFIBUS PA

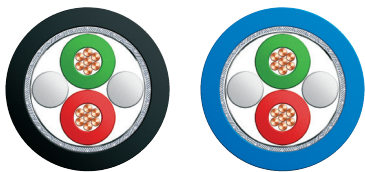
Long Distance Cable FR-PVC

Electrical Data @ 20°C

		16 AWG	14 AWG
Max. Conductor DC Resistance		≤ 13,3 Ohm/km	≤ 17,5 Ohm/km
Shield resistance		≤ 7,0 Ohm/km	≤ 8,0 Ohm/km
Min. Insulation Resistance		5 GOhm*km	5 GOhm*km
Max. Capacitance (800 Hz)		60 nF/km	60 nF/km
Characteristic Impedance	31,25 kHz	100±20 Ohm	100±20 Ohm
Max. Attenuation	39 kHz	≤ 2,6 dB/km	≤ 2,7 dB/km
Nom. Attenuation	100 kHz	≤ 3,5 dB/km	≤ 3,8 dB/km
Nom. Attenuation	1 MHz	≤ 13,8 dB/km	≤ 14,0 dB/km
Inductance	31,25 kHz	0,7 mH/km	0,7 mH/km
Dielectric strength (c/c - c/s)		2,5 kVac 1 min.	2,5 kVac 1 min.
Max. Voltage rating (peak)		300 V	300 V

Mechanical & Thermal Characteristics

Permissible temperature range	-40 ~ +80 °C
Min. Bending radius allowed	10 x Ø
Weight (approx.)	- 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.