



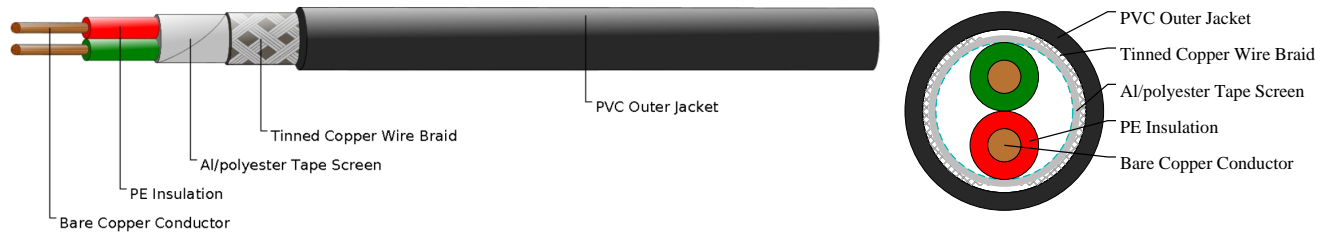
Caledonian

Bus Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

Profibus PA 1P1mm²



APPLICATIONS

This Profibus PA line is used in the area of process automation, among other things in the chemical industry.

This cable is an economical solution for the cell and field area. For the information exchange between different automation systems as well as for communication with the connected decentralized field units, serial field bus systems are used. The above mentioned types are suitable for ex and not-ex installation and are equipped with a special PVC jacket. Profibus PA is standardized as EN 50170 like Profibus DP and Profibus FMS.

CABLE CONSTRUCTION

Conductor: Bare copper conductor (AWG 18/1)

Insulation: PE

Stranding Element: 2 conductors + 2 fillers stranded together

Shielding: Polyester foil, aluminum-lined

Total Shielding: Copper braid, tinned

Outer Jacket: PVC

COLOUR CODE

Insulation Colors: Red, Green

Outer Jacket Color: Blue/Black

PHYSICAL AND THERMAL PROPERTIES

Characteristic Impedance @ 31.25 KHz: $100 \Omega \pm 20 \Omega$

Conductor Resistance: 22 Ohm/km max

Insulation Resistance: 1.00 GOhm x km min.

Mutual Capacitance @ 1 KHz: 55.0 nF/km nom.

Working Voltage: 300 V

Test Voltage: 2.5 kV

Min. Bending Radius (Laying): 18 x OD mm

Operating Temp. Range, min: -20 °C

Operating Temp. Range, max: +70 °C

DIMENSION AND PARAMETERS

Cable Construction	Diameter Of Core	Approx. Overall Diameter	Approx. Weight
	mm	mm	kg/km



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1x2x1.0mm ²	2.55	7.6±0.2	76
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