Profibus PA

Application:

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.

Construction:

Type/Area of Application	Hazardous Areas /Non-Hazardous Areas
Cable Construction	1x2x1.0/2.55 mm
Inner Conductor Diameter	Copper, bare (AWG 18/1)
Conductor Insulation	PE
Conductor Colors	red, green
Stranding Element	2 conductors + 2 fillers stranded together
Shielding	Polyester foil, aluminum-lined
Total Shielding	Copper braid, tinned
Outer Jacket Material	PVC
Outer Diameter	7.6 mm ± 0.2 mm
Outer Jacket Color	Blue/Black

Electrical Data:

Characteristic Impedance @ 31.25 KHz	100 Ω ± 20 Ω				
Conductor Resistance	22.0 Ohm/km max.				
Insulation Resistance	1.00 GOhm x km min.				
Mutual Capacitance@1KHz	55.0 nF/km nom.				
Working Voltage	300 V				
Test Voltage	2.5 kV				
Attenuation	39	kHz	≤	3	dB/km

Technical Data:

Weight	approximately 76.0 kg/km
Min. Bending Radius (Laying)	18 x OD mm
Operating Temp.Range, min.	- 20 °C
Operating Temp.Range, max.	+70 °C

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Profibus PA Long Distance

Application:

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 types mentioned here are suitable for ex and not-ex installation and are equipped with a special PVC-jacket.

Construction:

Type/Area of Application	Hazardous Areas/Non-Hazardous Areas
Cable Construction	1x2x1.6/3.2 mm
Inner Conductor Diameter	Copper, bare (AWG 16/7)
Conductor Insulation	PE
Conductor Colors	red, green
Stranding Element	2 conductors + 2 fillers stranded together
Shielding	Polyester foil, aluminum-lined
Total Shielding	Copper braid, tinned
Outer Jacket Material	PVC
Outer Diameter	9.5 mm ± 0.5 mm
Outer Jacket Color	Blue

Electrical Data:

Characteristic Impedance@ 31.25 KHz	100 Ω ± 20 Ω					
Conductor Resistance	24.0 Ohm/km max.					
Insulation Resistance	1.00 GOhm x km min.					
Mutual Capacitance@1KHz	60.0 nF/km nom.					
Working Voltage	300 V					
Test Voltage	1.0 KV					
Attenuation	39	kHz	≤	2.7	dB/km	

Technical Data:

Weight	approximately 110.0 kg/km
Min. Bending Radius (Laying)	7.5 x OD mm
Operating Temp.Range, min.	- 40 °C
Operating Temp.Range, max.	+70 °C

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