

# Profibus PA Cables

300V Single-Pair

FPE Insulated, Double Overall Screen, Unarmoured or Armoured, PVC Sheathed Cable

Description: CU/FPE/OS/OBS/PVC or CU/FPE/OS/OBS/PVC/SWA/PVC



Application :	This cable is primarily used to operate automation devices or in monitor measuring equipment.
Voltage rating :	300V
Construction :	Solid bare copper, foam-PE insulated, twisted pair, double overall screen (aluminium/polyester tape with metallic side outside in electrical contact with tinned copper drain wire plus tinned copper wire braid), unarmoured or galvanized steel wires armoured, PVC sheathed cable
Insulation colour :	Red, Green
Sheath colour :	Black Blue (suitable for intrinsically safe systems)
Specification :	BS EN 50170, BS EN 50288-7, IEC 61158-2, IEC 60332-1-2
Operating temperature :	80°C

Conductor			Unarmoured Cable			Armoured Cable		
Size	No./Diam. of Strand	Approx. Diam.	Part No.	Approx. Overall Diam.	Approx. Weight	Part No.	Approx. Overall Diam.	Approx. Weight
(AWG)	(no./mm)	(mm)		(mm)	(kg/km)		(mm)	(kg/km)
18	7/0.404	2.55	<b>471P1074</b>	8.2	80	<b>471P1075</b>	13.3	335

## Electrical Data

Maximum Conductor Loop Resistance D.C. at 20°C	43.6Ω/km
Maximum Shield Resistance D.C. at 20°C	9.5Ω/km
Minimum Insulation Resistance at 20°C	5000MΩ·km
Maximum Capacitance at 1kHz	60nF/km
Nominal Inductance at 31.25 kHz	0.7mH/km
Characteristic Impedance at 31.25 kHz	100 ± 20 Ω

## Maximum Attenuation at 20°C

Frequency	Attenuation
at 39kHz	3.0dB/km
at 100kHz	3.5dB/km
at 1MHz	12dB/km