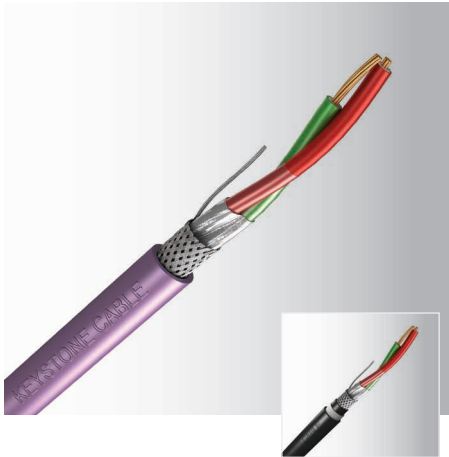


Profibus DP Cables

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 :	Unarmoured	Violet Blue (suitable for intrinsically safe systems)
	Armoured	Black (other colour upon request)
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)
22	1/0.64	2.55	451P1012	8.0	80	451P1063	12.8	310

Electrical Data

Maximum Conductor Loop Resistance D.C. at 20°C	110Ω/km
Maximum Shield Resistance D.C. at 20°C	9.5Ω/km
Minimum Insulation Resistance at 20°C	5000MΩ·km
Maximum Capacitance at 1kHz	30nF/km
Nominal Inductance at 31.25 kHz	1mH/km
Characteristic Impedance	
1) at 9.6kHz	270 ± 27 Ω
2) at 31.25~38.4kHz	185 ± 18 Ω
3) at 3~20MHz	150 ± 15 Ω

Maximum Attenuation at 20°C

Frequency	Attenuation
at 9.6kHz	2.5dB/km
at 38.4kHz	4dB/km
at 4MHz	22dB/km
at 16MHz	42dB/km