

# Profibus - DP Cable

300V Single Pair FPE Insulated, Double Shield, Unarmoured & Armoured,  
PVC Sheathed Cable  
CU/FPE/OS/OBS/PVC or CU/FPE/OS/OBS/PVC/SWA/PVC



Standard Reference BS EN 50170, BS EN 50288-7,  
DIN 19254 T3, IEC61158-2,  
UL Style 2571

Application :	For applications that require time-critical communication between automation systems and distributed peripherals
Construction :	Plain annealed solid or stranded copper wire, foam polyethylene with skin insulation, twisted pair, coated aluminium tape, metallic surface outward in contact with tinned copper drain wire and tinned copper wire braid, unarmoured or galvanized steel wire armoured, PVC bedding & sheathed cable
Insulation Colour :	Red(+), Green(-)
Sheath Colour :	Unarmoured - Violet (Non Ex), Blue (Ex) Armoured - Black
Operating Temperature :	80°C

Conductor		Insulation	Unarmoured Cable			Armoured Cable		
Size	No./Dia. of Strand	Thickness	Part No.	Approx. Overall Dia.	Approx. Weight	Part No.	Approx. Overall Dia.	Approx. Weight
(AWG)	(no./mm)	(mm)		(mm)	(kg/km)		(mm)	(kg/km)
22	1/0.64	0.6		8.0	80		12.8	370
22	7/0.25	0.6		8.4	89		13.2	382

## Electrical Properties

## 22 AWG

Max. Conductor Resistance	110 Ω / km
Max. Screen Resistance	9.5 Ω / km
Min. Insulation Resistance	5 GΩ / km
Max. Mutual Capacitance	30nF / km
Max. Capacitance Unbalance	1500pF / km
Min. Bending Radius	Unarmoured: 6D (Fixed), 10D (Repeated) Armoured: 10D (Fixed)
Characteristics Impedance	150 ± 15 Ω

Frequency	ATTENUATION Max
(MHz)	(dB/100m)
0.0096	2.5
0.0384	4.0
4	22.0
16	42.0