

Flame Retardant Profibus - PA Cable

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



Standard Reference	BS EN 50170, BS EN 50288-7, DIN 19254 T3, IEC61158-2, UL Style 2571
Flame Retardant Ref.	IEC 60332-3, IEC 60754, IEC 61034

Application : For use in process automation, for connecting control systems with field instruments and in potentially explosive atmospheres, especially suitable for areas where fire would create dense smoke and toxic fumes, imposing major threat to lives and equipment

Construction : Plain annealed solid or stranded copper wire, foam polyethylene or polyethylene insulated, 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, LSZH bedding & sheathed cable

Insulation Colour : Red(+), Green(-)

Sheath Colour : Unarmoured - Black (Non Ex), Blue (Ex)
Armoured - Black

Operating Temperature : 80°C

Conductor		Insulation		Unarmoured Cable			Armoured Cable		
Size	No./Dia. of Strand	Material	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)
18	1/1.05	FPE	0.6		8.0	76		13.0	393
18	7/0.40	FPE	0.6		8.2	80		13.3	394
16	7/0.50	PE	0.6		9.5	110		13,5	410

Electrical Properties	18 AWG	16AWG
Max. Conductor Resistance	22 Ω / km	13.3 Ω / km
Max. Screen Resistance	9 Ω / km	7 Ω / km
Min. Insulation Resistance	5 GΩ / km	5 GΩ / km
Mutual Capacitance	55nF / km	60nF / km
Max. Capacitance Unbalance	≤ 2pF /km	≤ 2pF /km
Characteristics Impedance	100 ± 20 Ω	100 ± 20 Ω
Min. Bending Radius	Unarmoured: 6D (Fixed), 10D (Repeated) Armoured: 10D (Fixed)	

Frequency	18 AWG	16 AWG
	ATTENUATION Max	ATTENUATION Max
(MHz)	(dB/100m)	(dB/100m)
0.039	3.0	2.7