

Foundation Fieldbus Cable

300V Single Pair FPE Insulated, Double Shield, PVC Sheathed Cable
CU/FPE/OS/OBS/PVC

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Application :	For use in data communication networks and industrial process control instruments
Construction :	Plain annealed solid or stranded copper wire, foam polyethylene, polyethylene or cross-linked polyethylene insulated, twisted pair, coated aluminium tape, metallic surface outward in contact with tinned copper drain wire and tinned copper wire braid, PVC sheathed cable
Insulation Colour :	Orange(+), Blue(-)
Sheath Colour :	Unarmoured - Orange (Non Ex), Blue (Ex)
Operating Temperature :	80°C

Standard Reference FF-844 H1, IEC61158-2,
BS EN 50288-7

Part No.	Conductor		Insulation		Single Pair Cable	
	Size	No./Dia. of Strand	Material	Thickness	Approx. Overall Dia.	Approx. Weight
	(AWG)	(no./mm)		(mm)	(mm)	(kg/km)
	18	7/0.40	FPE	0.6	8.0	96
	16	7/0.50	PE or XLPE	0.6	9.7	129
	14	7/0.62	PE or XLPE	0.6	11.5	172

Electrical Properties	18 AWG	16AWG	14AWG
Max. Conductor Resistance	44 Ω / km	28 Ω / km	17.9 Ω / km
Min. Insulation Resistance	5 G Ω / km	5 G Ω / km	5 G Ω / km
Max. Mutual Capacitance	65nF / km	65nF / km	65nF / km
Max. Capacitance Unbalance	2pF /km	2pF /km	2pF /km
Characteristics Impedance	100 \pm 20 Ω	100 \pm 20 Ω	100 \pm 20 Ω
Min. Bending Radius	6D (Fixed), 10D (Repeated)		

Frequency	18 AWG	16 AWG	14 AWG
	ATTENUATION Max	ATTENUATION Max	ATTENUATION Max
(MHz)	(dB/100m)	(dB/100m)	(dB/100m)
0.039	3.0	3.0	3.0