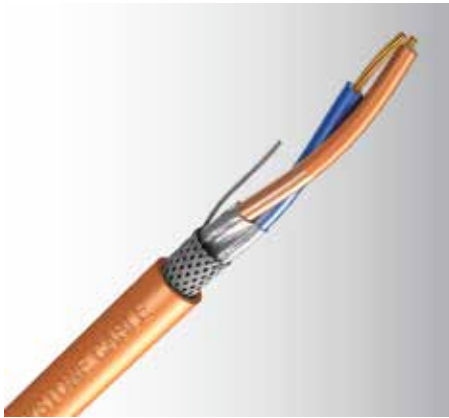


# Flame Retardant Foundation Fieldbus Cable

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



Application :	For use in data communication networks and industrial process control instruments, especially suitable for areas where fire would create dense smoke and toxic fumes, imposing major threat to lives and equipment
Construction :	Plain annealed copper wire, foam polyethylene with skin insulation, polyethylene or cross-linked polyethylene insulated, coated aluminium tape screen with metallic surface outward in contact with tinned copper drain wire, LSZH 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
Flame Retardant Ref.	IEC 60332-3, IEC 60754, IEC 61034

Part No.	Conductor		Insulation		Single Pair Cable	
	Size (AWG)	No./Dia. of Strand (no./mm)	Material	Thickness (mm)	Approx. Overall Dia. (mm)	Approx. Weight (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 GΩ / km	5 GΩ / km	5 GΩ / km
Max. Mutual Capacitance	65nF / km	65nF / km	65nF / km
Max. Capacitance Unbalance	2pF /km	2pF /km	2pF /km
Characteristics Impedance	100 ± 20 Ω	100 ± 20 Ω	100 ± 20 Ω
Min. Bending Radius	6D (Fixed), 10D (Repeated)		

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