

CIRCUIT INTEGRITY COAXIAL CABLE

Zero Halogen, Low Smoke (OHLS®) coaxial cable for visual safety systems.

Fire resistant 75Ω Coax similar to RG59. Ideal for CCTV, security, smoke detection and evacuation monitoring applications, where continued functionality is required during a fire situation. Due to the zero halogen low smoke construction Firetuf Coaxial is ideal for use in public, commercial and industrial environments.

Construction

Conductor:	Plain annealed copper wire.
Insulation:	Dual layer Polyethylene and Silicone rubber.
Binder:	Close weave glass tape.
Screen:	Two layers plain copper wire braid.
Sheath:	Thermoplastic Zero Halogen Low Smoke (OHLS®) compound.

Physical Characteristics

Min. bending radius:	Installation: 10 x overall diameter. Fixed: 5 x overall diameter.
Temperature range:	Installation: -5°C to +60°C Operating: -30°C to +70°C
Conductor Diameter:	0.65mm
Overall Diameter:	9.1mm
Approximate weight:	110 kg/km

Electrical Characteristics @ 20°C

Character impedance		Ω(ohms)	75±5
Attenuation at (nominal)	0,5Mhz	dB/100m	0.65
	1Mhz	dB/100m	0.90
	5Mhz	dB/100m	2.24
	10Mhz	dB/100m	3.35
	100Mhz	dB/100m	15.03
Screening Attenuation	30-1000Mhz	dB	>100
	1000-2000Mhz	dB	>95
	2000-3000Mhz	dB	>89
Transfer impedance	5-30 Mhz	mΩ/m	≤5
	Velocity ratio	%	61.4
	DC resistance		
	Inner conductor	Ω/km	55.3
	Outer conductor	Ω/km	3.7
	Return loss		
	5-30Mhz	dB	>22
	30-470MhzdB	>22	
	470-1000Mhz	dB	>18
	1000-3000Mhz	dB	>20
Electrical strength (1min.)			
Dielectric	kV d.c.	2.00	
Sheath	kV d.c.	3.75	

Standards Achieved

Construction:	BS EN 50117-1 & draft BS EN 50117-2-4 2002, EN 50083-2/A1 screening class A
Circuit integrity:	BS 5839-1:2002 Clause 26.2e Enhanced BS 8434-2:2003 BS EN 50200 >PH120 IEC 60331-23
Flame propagation:	BSEN 60332-3
Acid gas emission:	IEC 60754
Smoke emission:	IEC 601034

