

FTZ_6CU7SS



Certification: Approved to LUL -

LUL-Flammability, smoke & fume 2-01001-002
 LUL STANDARD e4156 part 1 – approved Fire resistant BS5839-1 (clause 26.2e); BS8434-2; BSEN 50200
 Flame retardant BS4066 part 3; Smoke emission BSEN 20568
 Network Rail approved; approved Fire resistant BS5839-1 (clause 26.2e); BS8434-2; BSEN 50200
 Flame retardant BS4066 part 3; Smoke emission BSEN 20568

Application

Firetuf Data Coax (FDZ_6CU7SS) is designed for sending high frequency or high data rates The FDZ_6CU7SS is capable of withstanding the Fire Test that are currently used to indicate whether a power cable has Circuit Integrity (CI), this does and must include voltage pressure test. This combination offers the system applications designer to consider mission critical systems that require extended working/monitoring during fire conditions.

Construction

EN 50083-2/A1screening class A
 EN50117, IEC 61196

Fire Retardance and Smoke

IEC 60332-1-2
 IEC60332.3.24; IEC60332.3.22; IEC60332.3.25
 Flame retardant BS4066 part 3; Smoke emission BSEN20568; IEC 61034-2
 LUL (London Underground and Network Rail)-Flammability, smoke & fume 2-01001-002

Flame Resistance

BS5839-1 (clause 26.2e); BS8434-2; BS5839
 BSEN 50200 (180 mins), EN50200;
 EN50399 B2 S1a
 IEC 60331-23

Zero Halogen and Gas

LSHF: (FRNC) IEC 60332-1-2; IEC 60754-2

Cable layout

Inner conductor	bare copper wire, diameter 1/0.65± .01 mm
Insulation	PE skin, natural colour, silicone rubber outer insulation 4.65± .1 mm (Patent Protected)
Outer conductor	Glass Tape, copper braid , optical coverage 95%, + second braid , optical coverage 70%.
Sheath	LSHR, flame retardant non-corrosive Copolymer Diameter 9.1 ± 0.2 mm
Sheath colour	Red
Sheath marking	FIRETUF COAX 75 OHM IEC 60331 (date) batch meter mark + meter marking

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Electrical properties at 20 °C

Characteristic impedance	Ω	75 \pm 5			
Attenuation at (nominal)	0,5 MHz	dB/100m	0.65		
	1 MHz	dB/100m	0.90		
	5 MHz	dB/100m	2.24		
	10 MHz	dB/100m	3.35		
	100 MHz	dB/100m	15.03		
	300 MHz	dB/100m	32.51		
Screening attenuation					
	30-1000 MHz	dB	> 100		
	1000 MHz-2000 MHz	dB	> 95		
	2000 MHz-3000 MHz	dB	> 89		
Transfer impedance					
	5 MHz-30 MHz	m Ω /m	\leq 5		
Velocity ratio		%	61.4		
DC resistance					
Inner conductor		Ω /km	55.3		
Outer conductor		Ω /km	3.7		
Return loss					
	5	-	30 MHz	dB	> 22
	30	-	470 MHz	dB	> 22
	470	-	1000 MHz	dB	> 18
	1000	-	3000 MHz	dB	> 20
	Mutual capacitance	76	pF/m		
Electrical strength (1 Min.)					
	Dielectric	kV d.c.	2		
	Sheath	kV d.c.	3.75		

Mechanical properties at 20 °C

Operating temperature range	°C	-30 to +70			
Temperature range during storage	°C	-30 to +70			
Temperature range during installation °C	°C	-5 to +60			
Bending radius					
	without load	(installed)	5 x \varnothing Cable		



FTZ_6CU7SS

		with load (simulated installation)mm	10 x Ø Cable			
	Corrosivity				acc.to	IEC 60754-2

Product data

Product code	Cable type	Weight kg/km	Copper Index	Standard-Delivery-length m	Drum Size OWD	Bending radius mm	Tensileforce N	Storage
60017668	FTZ_6CU7SS Coax	110	45	500	500/200/360	35	180	inside

OWD (plywood drum)

Optional Design also Patented

[PRODUCT CODE TABLE]

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