



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.

Fire Rating

- IEC 60332-1-2, IEC60332.3.24, IEC60332.3.22, IEC60332.3.25, BS5839-1 (clause 26.2e), BS8434-2, BS5839 BSEN 50200 (180 mins), EN50200, EN50399 B2 S1a, IEC 60331-23, IEC 60332-1-2, IEC 60754-2

Firetuf™ DATA Coaxial

Construction

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

Mechanical Properties

Bending radius	without load	5 x Ø Cable
	with load	10 x Ø Cable
Temperature range	during operation	-30°C to +70°C
	during installation	-5°C to +60°C

Electrical Properties at 20°C ± 5°C

Impedance, Ω		75 ± 5
Attenuation at	0.5 MHz	0.65dB/100m
	1 MHz	0.90dB/100m
	5 MHz	2.24dB/100m
	10 MHz	3.35dB/100m
	100 MHz	15.03dB/100m
Screening Attenuation	300 MHz	32.51dB/100m
	30-1000 MHz	> 100dB
	1000 MHz-2000 MHz	> 95dB
Transfer Impedance	2000 MHz-3000 MHz	> 89dB
	5 MHz-30 MHz	≤ 5mΩ/m
Velocity Ratio		61.4%
DC Resistance	-	-
Inner Conductor		55.3Ω/km
Outer Conductor		3.7Ω/km
Return Loss	5 - 1000 MHz ≥ 22dB	
Mutual Capacitance	76pF/m	
Electrical Strength (1 Min.)	Dielectric	2kV d.c.
	Sheath	3.75kV d.c.

Ordering Information

P/N	Product Description	P.U
60017668	FTZ_6CU7SS Coax	500m/drum