

# DRAKA CABLES:

## FIRETUF COAXIAL



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 300Mhz dB/100m 32.51.

Screening Attenuation : 30-1000Mhz dB >100 1000-2000Mhz dB >95 2000-3000Mhz dB >89 Transfer impedance: 5-30Mhz 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 30-470Mhz dB >22 470-1000Mhz dB >18 1000-3000Mhz dB >20

**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: IEC 60332-3

Acid gas emission: IEC 60754

Smoke emission: IEC 601034