FIRETUF EMC BS5839

CIRCUIT INTEGRITY ALARM CABLE

In airport environments, where higher than normal levels of electro magnetic radiation are present, alarm systems could be vulnerable to false alarms. Firetuf emc cables were specifically designed to meet the onerous requirements for immunity to Electro Magnetic Interference (EMI) and have been supplied for London Heathrow Terminal 5. Zero Halogen, Low Smoke (OHLS®) cable, maintaining circuit integrity when exposed to fire, meeting the Standard category of BS 5839-1:2002. Manufactured to BS 7629-1. Tested and approved by LPCB and BASEC.

These cables are suitable for installations where a fire situation may pose a major hazard and the maintenance of circuit integrity is a requirement, thereby giving increased protection to life and property. Application of the latest sheath extrusion technology and 100% cover electrostatic screen, gives Firetuf emc its unique advantages which include:

- Increased immunity to EMI
- Available in long length
- Ease of handling and installation
- Lower termination costs
- Twisted core construction to improve signal clarity
- Suitable for use in Zone 1 and Zone 2 hazardous areas

Construction

Conductors:	Solid or stranded plain annealed copper wire.
Insulation:	Silicone rubber.
Binder:	Close weave glass tape.
Electrostatic screen:	Enhanced aluminium/polyester laminated tape.
Conductor (earth):	Solid or stranded tinned annealed copper.
Sheath:	High performance, Thermoplastic Zero Halogen, Low Smoke (OHLS®) compound.

Physical Characteristics

Voltage rating (Uo/U):	300/500V.
Operating temp:	-40˚C to +90˚C (The cable should not be flexed when either the ambient or cable temperature is below 0˚C).
Min. bending radius:	6 x overall diameter of cable.

Standards Achieved

Circuit integrity:	BS 5839-1:2002 Clause 26.2d Standard. BS 8434-1:2003. BS EN 50200 PH30. BS 6387 C, W & Z.
Flame propagation:	IEC 60332-3, IEC 60332-1, BS EN 50265, BS EN 50266.
Acid gas emission:	IEC 60754, BS EN 50267.
Smoke emission:	IEC 61034, BS EN 50268.

Cable ref.	No. of cores	Conductor Class	CSA mm²	Earth CSA mm²	Nominal diameter mm	Approx. nett weight kg/km
FTEMC2EH1.5	2	1	1.5	1.5	8.3	110
FTEMC2EH2.5	2	1	2.5	2.5	9.7	170