SECURE
FIRE RATED MULTICORE CABLE

LPCB

Overview

Fire Resistant Cables are suitable for high buildings, entertainment venues and many high-quality and high demand security construction projects. They are used in fire protection systems for fire elevators, fire pumps, fire alarms, smoke exhaust systems, emergency lighting, fire hazard areas, high temperature applications and special requirements on power supply lines for safe facilites etc.

Product Application:

* Conductor   : solid pure copper, class 1
* Insulation   : 200°C silicone
* Binding tape   : compound mica
* Drain wire   : ≥0.5mm² tinned copper
* Shielding   : fire foil
* Sheath   : 90°C LSZH polyolefin

Product Property:

* Insulation at 250-300°C, oxygen index ≥28%
* Sheath at 250-300°C, oxygen index ≥28%
* Hydracid ≥5mg/g PH value ≥4.3
* Transmittance ≥80%
* Physical mechanical propert: insulation tensile strength ≥5.0 MPa elongation at break ≥200%, sheath tensile strength ≥10.0MPa elongation at break ≥100%
* Min bend radius: 10 x D, at -15°C Min bend dia ≤12.5mm
* Operating voltage: 300/500v
* Testing voltage: 2000v
* Operating temperature: -20°C + 90°C
* Fire retardance compliant to BS6387-2013
        fire test alone: 950°C, 180 mins
        fire test with water: 650°C 15mins
        fire test with impact: 950°C, 15 mins/30mins
* Fire retardance compliant to BS EN50200-2015 PH30, PH120

Advantage:

* BS LPCB approved
* Low smoke, no halogen, fire retardant, fire resistant, environmental
* Low smoke in fire, no halogen which decrease the damage to equipments and humans
* High retardance to fire, self- extinguishing
* Long operational life span, equal to structures life span

Item structure	Conductor	Insulation	Diameter
2 core 1.0mm	1/1.13mm	silicone	2.2
2 core 1.5mm	1/1.38mm	silicone	2.55
2 core 2.5mm	1/1.78mm	silicone	3.2

Sheath	Diameter	Resistance of Conductor at 20°C: Ω/Km
LSZH	6.6	18.1
LSZH	7.5	12.1
LSZH	8	7.41