



## FIRE SURVIVAL CABLE

If the insulating or jacketing materials in cables catch fire they can further act as a fuel, and that too, significantly. This is so because of the sheer volume of cables in modern buildings (electrical, telephone, computer connections etc.)

Fire Survival Cables (Low-smoke Halogen-Free - LSZH) are used in various indoor and outdoor applications as they can maintain power supply during a fire. They are also used in areas where smoke and acid gas evolution could pose a hazard to personnel or sensitive equipment in high-rise buildings, schools, hospitals, hotels, shopping centers, subways, etc.

**Conductor**

made of high conductivity  
annealed plain copper

**Insulation**  
XLPE

**Armour with**  
steel wire / flatstrip



**Heat Barrier**  
high temperature  
sustaining mica tape.

**Inner Sheath**  
with LSZH / FRLS

**Outer Sheath**  
LSZH / FRLS

**FIRE SURVIVAL CABLE**

**General Construction**

Solid/Stranded Copper conductor lapped with glass mica tape, insulated with XLPE forms the core. Cores laid-up together form a power cable / control cable / instrumentation cable with fire survival properties.

Conductor: Copper , bare or tinned. Circular or sector shaped with glass mica tape

Insulation: XLPE | Inner sheath: LSZH | Amour: Wire or Strip | Outer Sheath: LSZH

Application: To maintain circuit integrity during the fire | Standard Specifications: BIS / IEC / BS.

Range Copper 1.5 SQMM TO 400 SQMM

Special characteristics: Withstands flame temperature of 750 degree centigrade up to 3 hours without electrical breakdown at rated voltage.

Does not produce noxious smoke or propagate flame & fumes which hinder firefighting operations, thus endangering life.

**FIRE  
SURVIVAL  
TEST**



**RESISTANCE TO FIRE ALONE**  
AS PER IS-17505-PART 1 &  
BS-6387 / 7846



**RESISTANCE TO FIRE  
WITH WATER**



**RESISTANCE TO FIRE WITH  
MECHANIAL SHOCK**



**SMOKE DENSITYTEST**  
AS PERASTM D-2843

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