Mineral Insulated Fire-Resistant Cable

Cu / MI / FR Filler / LSZH Tape / Cu Sheath

APPLICATION

Designed to maintain uninterrupted power to critical fire-fighting and emergency systems during a fire, including fire pumps, fire lifts, emergency and local lighting, evacuation signage, security monitoring, smoke-control and exhaust systems, standby power supplies and other essential equipment. Widely used for main feeders, emergency lighting, emergency equipment and fire-protection systems in high-rise buildings, petrochemical facilities, power plants, metallurgical facilities, shopping centers, theaters, hotels, airports and tunnels. Suitable for Class A fire-protection power circuits requiring mineral-insulated fire-resistant cables and designed to meet the highest non-combustibility classification requirements of GB 31247.

ADVANTAGES

- **Excellent Fire Resistance: 950°C / 180 min under direct flame exposure, flame + water spray, and flame + mechanical impact tests.**
- **High Overload Capability**
- **Custom Continuous Lengths: Supplied in continuous lengths to match project requirements; customized lengths available.**
- **Flexible Installation: Bending radius 6D–20D.**

Key Performance: 50–100 Year Service Life · Inorganic Material System · Long-Term Stability · Low Maintenance

CABLE CONSTRUCTION

Conductor	Copper Conductor
Insulation	Mineral Insulation
Filler	Flame-Retardant Filler
Wrapping	LSZH Flame-Retardant Tape
Metal Sheath	Copper
Sheath Construction	Welded & Corrugated
Sheath Thickness	In accordance with GB/T 34926-2017
Corrugation Parameters	In accordance with GB/T 34926-2017

TECHNICAL CHARACTERISTICS

Standard	GB/T 13033, GB/T 34926
Max. Operating Temp.	90°C
Temperature Range	0°C to +90°C
Short-Circuit Temp.	250°C
Min. Bending Radius	6–10 × D
Fire Resistance	Meets GB/T 19666 requirements

ELECTRICAL CHARACTERISTICS

Rated Voltage	0.6/1 kV
Max. System Voltage	1.2 kV
Test Voltage	3.5 kV / 5 min
Insulation Resistance	≥100 MΩ·km

DIMENSIONS

Cross Section n × mm²	Conductor Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Overall Diameter mm	Weight kg/km	Conductor Resistance at 20°C Ω/km
3×25+1×16	6.0/4.8	0.55/0.55	0.5	19.0	1198.7	0.727
3×50+1×25	8.4/6.0	0.65/0.55	0.5	24.4	2182	0.387
3×70+1×35	10.0/7.0	0.65/0.60	0.6	28.2	2957.4	0.268
3×95+1×50	11.6/8.4	0.65/0.65	0.6	32.0	3604.2	0.193

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