

# MACRO Cable

Safety FIRST



**Fire Proof Cables**

*to Protect Life & Property*

## MACRO FR-6387 Fire Proof Cables

**Modern Buildings** are not only designed to be aesthetic, eye catching state-of-the-art architectures, they should be functional as well, in terms of safety and durability. It must be able to withstand various unforeseen circumstances prevalent. Whilst steel and concrete structures form the physical backbone of buildings, Fire Proof Cables act as the main arteries, feeding life by distributing critical power and activating alarm signals during fire emergencies. In the event of a fire, an ordinary cable is akin to failing arteries that become the main culprits of heat and flame propagation. The failure of cable's circuit integrity is the main cause of fire incidence, leading to major catastrophic damage to building structure and even loss of lives.

**MACRO FR-6387 Fire Proof Cables**, also known as Circuit Integrity Cables or Fire Rated Cables, are specially designed for Critical Life Safety System that allows the circuit to remain integrated for few hours to ensure operation of emergency systems, in the event of fire. These cables are most suitable for places where concentration of people is high and need quick and safe evacuation, in case of fire.

- **MACRO FR-6387 Fire Proof Shield Cable with Drain Wire**

Designed to maintain integrity of electrical circuits critical for maintaining the power supply in the event of fire. Suitable uses include data services, industrial manufacturing process, building management & fire protection system in high rise buildings, garments, textiles or similar industry, where concentration of people is high.

- **MACRO FR-6387 Fire Proof Building Wires**

Designed to be used in emergency lightings in public and industrial buildings such as textile, garment industries, airports, hotels, hospitals, shopping malls, train & bus stations, schools and universities, etc.

- **MACRO FR-6387 Fire Proof Flexible Instrument Cables**

Designed to be used for lifts, elevators, escalators, water pumps, etc.

- **MACRO FR-6387 Fire Proof Flexible Power Cables**

Designed for standby power supplies.

### TECHNICAL DATA

Product	MACRO FR-6387 Fire Proof Shield Cable with Drain Wire	MACRO FR-6387 Fire Proof Building Wires
Standard	BS-6387, IEC60331	BDS-900, BS-6004, IEC60331
Voltage Rating	300/500 V	450/750 V
Conductor	Solid (Class1), Annealed Copper Conductor	Stranded Annealed Copper Conductor
Drain Wire	Annealed Aluminum Solid	-
Insulation	FR Compound	FR Compound
Sheathing	FR Compound	-
Fire and Flame Barrier	Mica Tape	Mica Tape
Shield	Aluminum Mylar Tape	-
Min. Thermal Stability Test (200±0.5°C)	80 Minutes	80 Minutes
Minimum Volume Resistivity at 20°C	1 x 10 <sup>13</sup> ohm -cm	1 x 10 <sup>13</sup> ohm -cm
Min. Oxygen Index of FR Compound	29%	29%
Min. Temp. Index of FR Compound	250°C	250°C
Min. Circuit Integrity at 750°C - 800°C	120 Minutes	120 Minutes



## Features of MACRO FR-6387 Fire Proof Cables

Designed to sustain high temperature (750-800 Deg. C) for a minimum period of ( 120 Minutes) under direct fire.

Maintain the integrity of building management system, fire protection system, surveillance system, emergency utility, emergency lifts, backup power, etc. during the defined period of fire ( 120 Minutes).

Ensures safe operation of critical circuits in public and industrial buildings such as airports, railway stations, bus terminals, garments, offices, hotels, convention centers, hospitals, shopping malls, schools, universities and power stations, etc. during a fire.

Manufactured with a specially designed heat barrier and fire resistant compound which stops the fire from reaching the conductor surface and prevent short circuit.



### TECHNICAL DATA

Product	MACRO FR-6387 Fire Proof Flexible Instrument Cables	MACRO FR-6387 Fire Proof Flexible Power Cables
Standard	BDS-899, BS-6500, IEC60331	BDS IEC- 60502-1, IEC60331
Voltage Rating	300/500 V	600/1000 V
Conductor	Flexible Copper Conductor	Flexible Copper Conductor
Drain Wire	-	-
Insulation	FR Compound	FR Compound
Sheathing	FR Compound	FR Compound
Fire and Flame Barrier	Mica Tape	Mica Tape
Shield	-	-
Min. Thermal Stability Test (200±0.5°C)	80 Minutes	80 Minutes
Minimum Volume Resistivity at 20°C	1 x 10 <sup>13</sup> ohm -cm	1 x 10 <sup>13</sup> ohm -cm
Min. Oxygen Index of FR Compound	29%	29%
Min. Temp. Index of FR Compound	250°C	250°C
Min. Circuit Integrity at 750°C - 800°C	120 Minutes	120 Minutes

## Fire Proof Circuit Integrity Cables

Macro FR 6387 Shield Cable

Macro FR 6387 Building Wire

Macro FR 6387 Flexible Instrument Cable

Macro FR 6387 Flexible Power Cable

MACRO- a name with a commitment to a better, greener way of life.  
Go forward with nature, Go Green with Macro-join Us.

Suite-D, Level-2, Plot-13, Road-34  
Gulshan-1, Dhaka-1212, Bangladesh

Email: [info@macro.com.bd](mailto:info@macro.com.bd)  
[www.macro.com.bd](http://www.macro.com.bd)

Phone: (880-2) 988 5103, 988 5203  
Fax: (880-2) 988 8725

Hotline : 0171 77 0000