Application

Flexible Mineral Insulated Cables are designed for high-temperature and fire-resistant applications. They consist of multi-stranded copper wire, mica tape mineral insulation, alkali-free glass fiber filling, and a copper tape sheath. These cables are ideal for fire protection systems, including alarm circuits, fire pumps, sprinklers, smoke control systems, and emergency power and lighting. They are also used in environments with flammable liquids or gases, providing robust performance and safety in critical situations.

Performance

Voltage Rating (U_0/U): 0.6/1KV; 300/500V for light duty; 450/750V for heavy duty.
Temperature Rating:
Fixed: -15°C to +70°C
Flexed: -5°C to +50°C
Minimum Bending Radius: 12 x overall diameter
Core Identification
Up to 5 cores: color or number coded
7+ cores: number coded

Construction

For conductor size up to 6mm²:
Conductor: Stranded circular compacted copper wire, Class 2 IEC60228
Fire Barrier Layer: Mica tape
Insulation: Cross-linked Polyethylene (XLPE)
Filler: Dust-free asbestos yarn
Binder Tape: Low smoke halogen-free flame retardant tape
Fire Barrier Layer: Fire resistant oxygen barrier
Metal Sheath/Armour: Aluminum alloy tape interlocked armor
Inner Covering: Extruded fire barrier layer
Separator: Fiberglass tape
Outer Sheath: Extruded low smoke halogen-free flame retardant polyolefin
For conductor size above 10mm²:
Conductor: Stranded circular compacted copper wire, Class 2 IEC60228
Fire Barrier Layer: Mica tape
Insulation: Cross-linked Polyethylene (XLPE)
Filler: Fiberglass yarn
Inner Covering: Extruded fire barrier layer
Separator: Fiberglass tape
Metal Sheath/Armour: Aluminum alloy tape interlocked armor

Construction

Core Identification
Single Core: Yellow
Two-core: Red, blue, or printed numbers 1, 0
Three-core: Yellow, green, red or printed numbers 1, 2, 3
Four-core: Yellow, green, red, blue or printed numbers 1, 2, 3, 0
Five-core: Yellow, green, red, blue, yellow/green or printed numbers 1, 2, 3, 4, 0
Other core identification colors are available upon request.
Outer Sheath
Extruded low smoke halogen-free flame retardant polyolefin

Specification

-IEC 60502 standard

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.
CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rhineland and CCS.

National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.
We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

Mechanical Performance			
Models	Specifications	Core No.	Rated Voltage
NG-A(BTLY)	1.5-6mm²	3-61 core	0.6/1kV
	10-240mm²	1-5 core	
	95-630mm²	1 core	
BBTRZ	1.5-6mm²	3-61 core	0.6/1kV
	1.5-400mm²	2-5 core	
	10-500mm²	1 core	

Note: 150mm² and above conductor specficitions are recommended to choose a single core cable to convenient laying.