## MINERAL INSULATED POWER CABLE

Mineral Insulated Copper cable belongs to electric cable class.

Outer Sheath: Copper Sheath with melting point of 1083°C

Insulation: Magnesium oxide insulator, hardly compressed, with melting point of 2800°C.

Conductor: Annealed conductor of 99.9% of purity electrolytic copper wire, with melting point of 1083°C

## Applicable Standard: IEC/EN 60702 Part 1

Maximum Continuous Temperature of Conductor is 250°C.

Heavy Duty Grade Cable: Voltage Grade 750V

Details	Standard Follow	Description				
MI Power Cable	IEC/EN 60702 Part 1	Mineral Insulated Copper sheathed Cable with Copper Conductor				
Copper Conductor	IEC 60228 for Class 1	Copper (>99.9 %)				
Insulation	IEC/EN 60702 Part 1	MgO (>99.4 % Pure)				
Metallic Sheath	ASTM B75 Specification	Seamless Copper Tube (99.9%)				
Insulation Resistance	IEC/EN 60702 Part 1	>1000 MΩ for above 100 Mtr coil				
TESTING						
A) Routine Test	IEC/EN 60702 Part 1	Conductor Resistance, Insulation Resistance, Sheath And Insulation Integrity, Diameter & ovality				
B) Type Test	IEC/EN 60702 Part 1	Voltage Test, Resistance of Copper Sheath, Insulation Thickness Sheath Thickness, Bending test, Flattening test, Fire Resistance,				

## How to Order - MI Power Cable

Type of Cable	No. of Core X Core Size (MM2)	Nominal Outer Copper Sheath Diameter (MM)	Mean Copper Sheath thickness (MM)	Nominal Core diameter (MM)	Maximum Core resistance (Ώ/Km)	Nominal Insulation thickness (MM)	Maximum Resistance of Copper Sheath (Ω/Km)	
Suitable for (450/750 v); Single Core								
1 C 1.5	1 X 1.5	4.9	0.41	1.38	12.1	1.3	4.13	
1 C 2.5	1 X 2.5	5.3	0.42	1.78	7.41	1.3	3.71	
1 C 4	1 X 4	5.9	0.45	2.26	4.61	1.3	3.09	
1 C 6	1 X 6	6.4	0.48	2.76	3.08	1.3	2.67	
Suitable for (450/750 v); Multi Core								
2 C 1.5	2 X 1.5	7.9	0.54	1.38	12.1	1.3	1.9	
2 C 2.5	2 X 2.5	8.7	0.57	1.78	7.41	1.3	1.63	
2 C 4	2 X 4	9.8	0.61	2.26	4.61	1.3	1.35	
2 C 6	2 X 6	10.9	0.65	2.76	3.08	1.3	1.13	
3 C 1.5	3 X 1.5	8.3	0.56	1.38	12.1	1.3	1.75	
3 C 2.5	3 X 2.5	9.3	0.59	1.78	7.41	1.3	1.47	
3 C 4	3 X 4	10.4	0.63	2.26	4.61	1.3	1.23	

## Mineral Insulated Copper Cables are Useful:

- Doesn't deteriorate with age.
- · Its high current carrying capacity.
- · Over come the overload and short circuit.
- · Resist to flame.
- Working under fire condition also.
- Such places where it is not allowed to break the walls to embed the conduit this is the ideal solution.

