Application

Mineral Insulated Metal Sheathed Cable, also known as MI cable or MICC Cable, is designed for fixed installation in various high-demand environments. It's suitable for building fire protection systems, emergency systems, power distribution, and high-temperature areas. Common applications include coal chemical, petrochemical, metallurgy, shipbuilding, power plants, medical facilities, glass and paper manufacturing, high-rise buildings, hotels, hospitals, shopping malls, warehouses, telecommunications centers, museums, airports, railway and bus stations, ports, metro systems, tunnels, and oil and gas stations.

Performance

Voltage Rating (U_0/U):
Light load (BTTQ, BTTVQ, WD-BTTYQ): 500V
Heavy load (BTTZ, BTTVZ, WD-BTTYZ): 750V
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 and above: number coded

Construction

Conductor: Stranded copper wires with good flexural properties
Insulation Layer: High-temperature resistant inorganic insulating materials
Copper Sheath: Copper material, specially machined for flexibility, used as PE wire
Outer Sheath: Low-smoke, non-toxic plastic materials with excellent corrosion protection

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

Physical Performance										
Nominal Conductor Cross Sectional Area	Strands No./Dia. Of Conductor	Nominal Insulation Thickness	Thickness of Metallic Sheath				O.D. of Cable			
			1 core	2 core	3 core	4 core	1 core	2 core	3 core	4 core
mm^2	pc/mm	mm					mm	mm	mm	mm
1×1	1/1.13	0.8	0.4	0.5	0.5	0.5	3.53	5.66	5.96	6.46
1 × 1.5	1/1.38	0.8	0.4	0.5	0.5	0.5	3.78	6.16	6.5	7.06
1 × 2.5	1/1.78	0.8	0.4	0.5	0.6	0.6	4.18	6.96	7.56	8.23
1 × 4	1/2.25	0.8	0.5	0.6	0.6	0.6	4.85	8.1	8.57	9.36
1 × 6	1/2.76	0.8	0.5	0.6	0.6	0.6	5.36	9.12	9.67	10.59
1 × 10	7/1.34	1	0.5	0.7	0.7	0.7	7.02	12.44	13.22	14.52
1 × 16	7/1.68	1	0.6	0.7	0.7	0.8	8.24	14.48	15.42	17.18
1 × 25	7/2.12	1	0.6	0.8	0.8	0.9	9.56	17.32	18.46	20.57
1 × 35	7/2.52	1	0.6	0.8	0.9	1	10.9	19.9	21.43	23.86
1 × 50	19/1.76	1.2	0.7	0.9	0.9	1	12.6	23	24.55	27.34
1 × 70	19/2.12	1.2	0.7	1	1	1	14.4	26.8	28.63	31.69
1 × 95	19/2.50	1.2	0.8	1	1	-	16.5	30.6	32.72	-
1 × 120	37/2.02	1.2	0.8	1	-	-	18.14	33.88	-	-
1 × 150	37/2.25	1.4	0.8	-	-	-	20.15	-	-	-
1 × 185	37/2.50	1.4	0.9	-	-	-	22.1	-	-	-
1 × 240	37/2.87	1.4	0.9	-	-	-	24.69	-	-	-
1 × 300	61/2.50	1.6	1	-	-	-	27.7	-	-	-
1 × 400	61/2.80	1.6	1	-	-	-	30.4	-	-	-
1 × 500	91/2.60	1.8	1.1	-	-	-	37.4	-	-	-
1 × 630	91/2.88	1.8	1.1	-	-	-	43.5	-	-	-

Technical Parameters

Physical Performance						
Nominal Conductor Cross Sectional Area	Strands No./Dia. Of Conductor	Nominal Insulation Thickness	Thickness of Metallic Sheath			
			1 core	2 core	3 core	4 core
mm^2	pc/mm	Ω/km	Ω/km			
1×1	1/1.13	18.1	4.53	2.2	2.08	1.9
1 × 1.5	1/1.38	12.1	4.19	2	1.89	1.73
1 × 2.5	1/1.78	7.41	3.75	1.75	1.36	1.24
1 × 4	1/2.25	4.61	2.61	1.26	1.18	1.08
1 × 6	1/2.76	3.08	2.33	1.11	1.04	0.945
1 × 10	7/1.34	1.83	1.74	0.689	0.646	0.586
1 × 16	7/1.68	1.15	1.19	0.587	0.55	0.432
1 × 25	7/2.12	0.727	1.05	0.429	0.401	0.32
1 × 35	7/2.52	0.524	0.935	0.377	0.341	0.28
1 × 50	19/1.76	0.387	0.68	0.285	0.266	0.215
1 × 70	19/2.12	0.268	0.591	0.22	0.205	0.185
1 × 95	19/2.50	0.193	0.451	0.191	0.179	-
1 × 120	37/2.02	0.153	0.408	0.172	-	-
1 × 150	37/2.25	0.124	0.366	-	-	-
1 × 185	37/2.50	0.0991	0.297	-	-	-
1 × 240	37/2.87	0.0754	0.263	-	-	-
1 × 300	61/2.50	0.0601	0.212	-	-	-
1 × 400	61/2.80	0.047	0.193	-	-	-
1 × 500	91/2.60	0.0366	0.149	-	-	-
1 × 630	91/2.88	0.0283	0.129	-	-	-