
## Application

Mineral Insulated Copper Clad Cable (MICC) features a copper conductor core, a copper sheath, and inorganic magnesium oxide powder insulation. It's ideal for fire protection systems like alarm circuits, fire pumps, sprinklers, smoke control, emergency power, and lighting. Additionally, it's used in industries with flammable liquids or gases.

## 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

Conductor: High-quality annealed copper
Insulation: High-temperature resistant, non-combustible magnesium oxide powder
Sheath: High-quality annealed copper
Outer Protective Layer (optional): Plastic coat (recommended halogen-free, low-smoke) for corrosion protection, identification, or aesthetics.

## Specification

-BS 6387 C-W-Z BS EN 60702 Part 1 standard 0.6/1KV MICC Mineral Insulated Copper Clad Cable

## 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 | | | | | |
|---|---|---|---|---|---|
| Light Duty 0.5KV | | | | | |
| No. Of Cores & Nominal Conductor Cross Sectional Area | Nominal Cross Sectional Area Of Copper Sheath | Nominal Overall Dia. | | Nominal Weight | |
| | | With LSZH Covering | Without LSZH Covering | With LSZH Covering | Without LSZH Covering |
| no.×mm² | mm² | mm | mm | kg/km | kg/km |
| 2×1.0 | 5.4 | 6.4 | 5.1 | 126 | 104 |
| 2×1.5 | 6.3 | 7 | 5.7 | 154 | 136 |
| 2×2.5 | 8.2 | 7.9 | 6.6 | 206 | 187 |
| 2×4.0 | 10.7 | 9.2 | 7.7 | 322 | 248 |
| 3×1.0 | 6.7 | 7.1 | 5.8 | 159 | 136 |
| 3×1.5 | 7.8 | 7.7 | 6.4 | 194 | 176 |
| 3×2.5 | 9.5 | 8.8 | 7.3 | 272 | 223 |
| 4×1.0 | 7.7 | 7.6 | 6.3 | 187 | 162 |
| 4×1.5 | 9.1 | 8.3 | 7 | 231 | 203 |
| 4×2.5 | 11.3 | 9.6 | 8.1 | 336 | 277 |
| 7×1.0 | 11 | 9.3 | 7.6 | 269 | 236 |
| 7×1.5 | 11.8 | 9.9 | 8.4 | 351 | 295 |
| 7×2.5 | 15.4 | 11.2 | 9.7 | 475 | 411 |
| Heavy Duty 0.75KV | | | | | |
| 1×6.0 | 8 | 7.7 | 6.2 | 213 | 173 |
| 1×10.0 | 9 | 8.8 | 7.3 | 273 | 240 |
| 1×16.0 | 12 | 9.8 | 8.3 | 361 | 326 |
| 1×25.0 | 15 | 11.1 | 9.6 | 506 | 457 |
| 1×35.0 | 18 | 12.2 | 10.7 | 650 | 585 |
| 1×50.0 | 22 | 13.6 | 12.1 | 842 | 758 |
| 1×70.0 | 27 | 15.2 | 13.7 | 1147 | 1016 |
| 1×95.0 | 32 | 17.4 | 15.4 | 1520 | 1324 |
| 1×120.0 | 37 | 18.8 | 16.8 | 1870 | 1612 |
| 1×150.0 | 44 | 20.4 | 18.4 | 2230 | 1949 |
| 1×185.0 | 54 | 23.2 | 20.4 | 2575 | 2370 |
| 1×240.0 | 70 | 26.1 | 23.3 | 3312 | 3050 |
| 1×300.0 | 79 | 28.8 | 26 | 3972 | 3791 |
| 1×400.0 | 91 | 32.8 | 30 | 5211 | 5004 |
| 2×1.5 | 11 | 9.4 | 7.9 | 259 | 237 |
| 2×2.5 | 13 | 10.2 | 8.7 | 314 | 276 |
| 2×4.0 | 16 | 11.3 | 9.8 | 398 | 355 |
| 2×6.0 | 18 | 12.4 | 10.9 | 483 | 446 |
| 2×10.0 | 24 | 14.2 | 12.7 | 697 | 619 |
| 2×16.0 | 30 | 16.2 | 14.7 | 968 | 850 |
| 2×25.0 | 38 | 19.1 | 17.1 | 1275 | 1178 |

## Technical Parameters

| Mechanical Performance<br>Light Duty 0.5KV | | | | | |
|---|---|---|---|---|---|
| No. Of Cores & Nominal Conductor Cross Sectional Area | Nominal Cross Sectional Area Of Copper Sheath | Nominal Overall Dia. | | Nominal Weight | |
| | | With LSZH Covering | Without LSZH Covering | With LSZH Covering | Without LSZH Covering |
| 3×1.5 | 12 | 9.8 | 8.3 | 290 | 254 |
| 3×2.5 | 14 | 10.8 | 9.3 | 365 | 323 |
| 3×4 | 17 | 11.9 | 10.4 | 461 | 415 |
| 3×6 | 20 | 13 | 11.5 | 590 | 526 |
| 3×10 | 27 | 15.1 | 13.6 | 853 | 754 |
| 3×16 | 34 | 17.1 | 15.6 | 1080 | 1034 |
| 3×25 | 42 | 20.2 | 18.2 | 1548 | 1444 |
| 4×1.54 | 14 | 10.6 | 9.1 | 344 | 305 |
| 4×2.5 | 16 | 11.6 | 10.1 | 430 | 384 |
| 4×4 | 20 | 12.9 | 11.4 | 577 | 507 |
| 4×6 | 24 | 14.2 | 12.7 | 718 | 644 |
| 4×14×160 | 30 | 16.3 | 14.8 | 1050 | 911 |
| 4×16 | 39 | 19.3 | 17.3 | 1390 | 1286 |
| 4×25 | 49 | 22.3 | 20.1 | 1943 | 1805 |
| 7×1.5 | 18 | 12.3 | 10.8 | 478 | 432 |
| 7×2.5 | 22 | 13.6 | 12.1 | 614 | 559 |
| 12×1.555 | 28 | 15.8 | 14.1 | 772 | 712 |
| 12×2.5 | 34 | 17.9 | 15.6 | 970 | 911 |
| 19×1.5 | 37 | 18.9 | 16.6 | 1086 | 992 |

| Electrical Performance<br>Light Duty 0.5KV | | | |
|---|---|---|---|
| Nominal Conductor Dia. | Nominal Conductor Cross Sectional Area | Max. D.C. Conductor Resistance | Voltage Rating |
| mm | mm² | W/km | kV |
| 1.13 | 1 | 18.1 | 0.5 |
| 1.39 | 1.5 | 12.1 | 0.5 |
| 1.77 | 2.5 | 7.41 | 0.5 |
| 2.25 | 4 | 4.61 | 0.5 |

## Technical Parameters

| Electrical Performance<br>Heavy Duty 0.75KV | | | |
|---|---|---|---|
| Nominal Conductor Dia. | Nominal Conductor Cross Sectional Area | Max. D.C. Conductor Resistance | Voltage Rating |
| mm | mm² | W/km | kV |
| 1.39 | 1.5 | 12.1 | 1.75 |
| 1.77 | 2.5 | 7.41 | 0.75 |
| 2.25 | 4 | 4.61 | 0.75 |
| 2.75 | 6 | 3.08 | 0.75 |
| 3.57 | 10 | 1.83 | 0.75 |
| 4.5 | 16 | 1.15 | 0.75 |
| 5.66 | 25 | 0.727 | 0.75 |
| 6.66 | 35 | 0.524 | 0.75 |
| 7.75 | 50 | 0.387 | 0.75 |
| 9.32 | 70 | 0.268 | 0.75 |
| 10.98 | 95 | 0.193 | 0.75 |
| 12.33 | 120 | 0.153 | 0.75 |
| 13.7 | 150 | 0.124 | 0.75 |
| 15.18 | 185 | 0.101 | 0.75 |
| 17.33 | 240 | 0.0775 | 0.75 |
| 19.37 | 300 | 0.0601 | 0.75 |
| 22.37 | 400 | 0.047 | 0.75 |