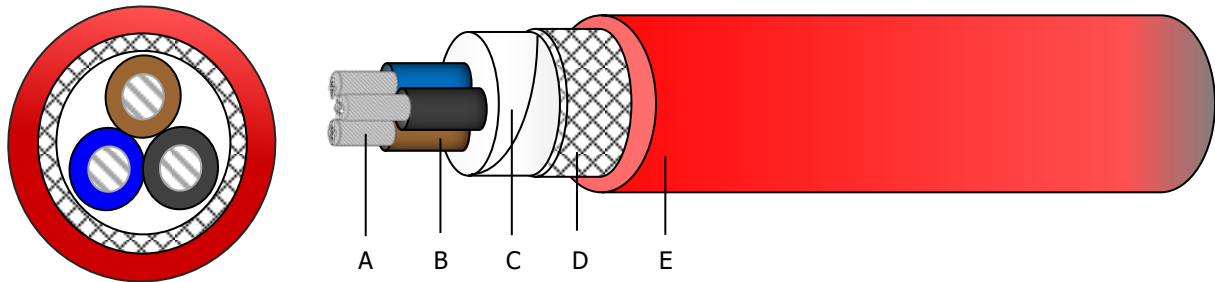


HEAT RESISTANCE CABLE

THOMFLEX-SIL (MC)



APPLICATION / CHARACTERISTICS

- Rated for use up to 180°C and can handle rapid increases in heat.
- Metal industry, glassworks, Steel mills, Commercial baking equipment, Furnaces, Ovens, Welding sets, Lighting, Thermoplastics and rubber machines, floodlights, etc.

CABLE STANDARDS

Reference standard : IEC 60502-1



CONSTRUCTION

| | |
|---------------------|---|
| A) Conductor | Tinned annealed copper wires |
| B) Insulation | Silicone rubber |
| Core Identification | Customer's options DIN VDE 0293-308 & 6C ↑ : Black or White cores numbering |
| C) Assembly | Required cores shall be assembled with suitable tape |
| D) Shield | Tinned copper wire braiding |
| E) Sheath | Silicone rubber |
| Sheath Colour | Customer's options |

TECHNICAL DATA

| | |
|---------------------|--------------------------------|
| Rated voltage | 0.6/1kV |
| Test voltage | 3,500V/5min. |
| Min. bending radius | 4 x D (Fixed) |
| Temperature range | -60°C ~ 180°C (up to 220°C) |
| Flame retardant | IEC 60332-1-2 |

| No. of cores x cross-sectional area (No. x mm ²) | Diameter of cable Nom. (mm) | Copper weight Approx. (kg/km) | Cable weight Approx. (kg/km) | Conductor resistance at 20 °C (Ω/km) |
|---|--------------------------------|----------------------------------|---------------------------------|---|
| 2 x 0.75 | 8.5 | 37.0 | 117.0 | 26.7 |
| 3 x 0.75 | 8.9 | 46.0 | 125.0 | 26.7 |
| 4 x 0.75 | 9.4 | 57.0 | 150.0 | 26.7 |
| 5 x 0.75 | 10.1 | 67.0 | 170.0 | 26.7 |
| 6 x 0.75 | 10.9 | 78.0 | 190.0 | 26.7 |

| No. of cores x cross-sectional area (No. x mm ²) | Diameter of cable Nom. (mm) | Copper weight Approx. (kg/km) | Cable weight Approx. (kg/km) | Conductor resistance at 20 °C (Ω/km) |
|---|--------------------------------|----------------------------------|---------------------------------|---|
| 7 x 0.75 | 10.9 | 88.0 | 205.0 | 26.7 |
| 2 x 1.0 | 9.0 | 43.0 | 131.0 | 20.0 |
| 3 x 1.0 | 9.4 | 55.0 | 144.0 | 20.0 |
| 4 x 1.0 | 10.1 | 67.0 | 170.0 | 20.0 |
| 5 x 1.0 | 10.8 | 80.0 | 195.0 | 20.0 |

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HEAT RESISTANCE CABLE

THOMFLEX-SIL (MC)

| No. of cores x cross-sectional area | Diameter of cable Nom. | Copper weight Approx. | Cable weight Approx. | Conductor resistance at 20 °C |
|---|------------------------------|-----------------------------|----------------------------|-------------------------------------|
| (No. x mm ²) | (mm) | (kg/km) | (kg/km) | (Ω/km) |
| 6 x 1.0 | 12.0 | 92.0 | 235.0 | 20.0 |
| 7 x 1.0 | 12.0 | 110.0 | 250.0 | 20.0 |
| 12 x 1.0 | 14.8 | 137.0 | 337.0 | 20.0 |
| 2 x 1.5 | 9.8 | 58.0 | 165.0 | 13.7 |
| 3 x 1.5 | 10.2 | 73.0 | 180.0 | 13.7 |
| 4 x 1.5 | 11.4 | 90.0 | 220.0 | 13.7 |
| 5 x 1.5 | 12.5 | 106.0 | 265.0 | 13.7 |
| 6 x 1.5 | 13.4 | 138.0 | 321.0 | 13.7 |
| 7 x 1.5 | 13.4 | 165.0 | 343.0 | 13.7 |
| 8 x 1.5 | 14.3 | 160.0 | 362.0 | 13.7 |
| 10 x 1.5 | 16.6 | 194.0 | 435.0 | 13.7 |
| 12 x 1.5 | 17.3 | 228.0 | 514.0 | 13.7 |
| 2 x 2.5 | 11.5 | 80.0 | 226.0 | 8.21 |
| 3 x 2.5 | 12.0 | 105.0 | 250.0 | 8.21 |
| 4 x 2.5 | 13.2 | 135.0 | 305.0 | 8.21 |
| 5 x 2.5 | 14.3 | 160.0 | 360.0 | 8.21 |

| No. of cores x cross-sectional area | Diameter of cable Nom. | Copper weight Approx. | Cable weight Approx. | Conductor resistance at 20 °C |
|---|------------------------------|-----------------------------|----------------------------|-------------------------------------|
| (No. x mm ²) | (mm) | (kg/km) | (kg/km) | (Ω/km) |
| 6 x 2.5 | 15.6 | 188.0 | 416.0 | 8.21 |
| 7 x 2.5 | 15.6 | 212.0 | 452.0 | 8.21 |
| 10 x 2.5 | 20.2 | 301.0 | 680.0 | 8.21 |
| 12 x 2.5 | 20.8 | 355.0 | 766.0 | 8.21 |
| 3 x 4 | 13.4 | 152.0 | 321.0 | 5.09 |
| 4 x 4 | 14.7 | 195.0 | 400.0 | 5.09 |
| 5 x 4 | 16.2 | 238.0 | 483.0 | 5.09 |
| 7 x 4 | 17.4 | 320.0 | 604.0 | 5.09 |
| 3 x 6 | 14.9 | 218.0 | 421.0 | 3.39 |
| 4 x 6 | 16.3 | 280.0 | 529.0 | 3.39 |
| 5 x 6 | 17.8 | 344.0 | 625.0 | 3.39 |
| 7 x 6 | 20.0 | 464.0 | 836.0 | 3.39 |
| 4 x 10 | 21.9 | 460.0 | 910.0 | 1.95 |
| 5 x 10 | 23.9 | 564.0 | 1,080.0 | 1.95 |
| 4 x 16 | 25.7 | 725.0 | 1,328.0 | 1.24 |
| 4 x 25 | 32.1 | 1186.0 | 2,031.0 | 0.795 |
| 4 x 95 | 57.0 | 4170.0 | 6,350.0 | 0.210 |

Other dimensions and colours are possible on request