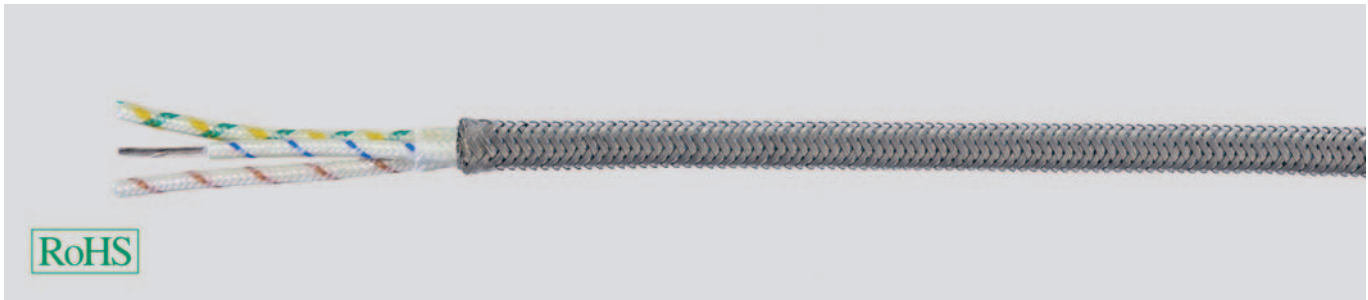


MULTITHERM 400-ES halogen-free, high-grade steel braiding**Technical data**

- Special core insulation for high temperatures
- **Temperature range** -60°C to +400°C (for short time +500°C)
- **Nominal voltage** 500 V
- **Test voltage** 2500 V
- **Minimum bending radius** 5x cable Ø

Cable structure

- Copper-conductor nickel plated, fine-wire (ASTM B 355)
- 1. Core insulation of braided glass-fibre impregnated with silicone
- 2. Core insulation of braided glass-fibre impregnated with silicone
- Core identification
 - No. of cores with GN-YE conductor
 - 3 = GN-YE, BU, BN
 - 4 = GN-YE, BK, BU, BN
 - 5 = GN-YE, BK, BU, BN, WH
 - 6 = GN-YE, BK, BU, BN, WH, RD
 - 7 = GN-YE, BK, BU, BN, WH, RD, GY
 - No. of cores without GN-YE conductor
 - 2 = BU, BN
 - 3 = BK, BU, BN
 - 4 = BK, BU, BN, WH
 - 5 = BK, BU, BN, WH, RD
 - 6 = BK, BU, BN, WH, RD, GY
 - 7 = BK, BU, BN, WH, RD, GY, GN
- Overall lay up of cores
- Outer sheath of braided glass-fibre impregnated with silicone
- braided high-grade steel, coverage approx. 80%

Properties

- Asbestos and cadmium-free

Note

- Further sizes are available on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- unshielded analogue type: **MULTITHERM 400**, confer page 229

Application

Where extremely high connecting and ambient temperatures occur, e. g. in iron and steel works, rolling mills, foundries, glass and ceramic plants, in power plant construction, in the chemical industry, nuclear technology, crude oil engineering, in technical applications in medicine, as well as for wiring resistances in electrical heating equipment, furnaces and machinery in thermoplastic forming. Due to the special construction of the cable, a maximum temperature of approx. 220°C is recommended for use in damp environments. Applications at temperatures above this should be used in dry environments only. The robust braiding of high-grade steel protects the cable from aggressive atmospheres and mechanical stresses. The braided screen can also be used for earthing purposes.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

| Part no. | No. cores x cross-sec. mm ² | Outer Ø approx. mm | Cop. weight kg / km | Max. permitt. current carrying capacity at +340°C (A) | Weight approx. kg / km | AWG-No. |
|----------|--|--------------------|---------------------|---|------------------------|---------|
| 52018 | 2 x 0,5 | 7,1 | 10,0 | 3,3 | 84,0 | 20 |
| 52019 | 3 x 0,5 | 7,3 | 15,0 | 3,1 | 89,0 | 20 |
| 52020 | 4 x 0,5 | 8,4 | 19,0 | 3,0 | 111,0 | 20 |
| 52021 | 5 x 0,5 | 8,9 | 25,0 | 2,9 | 126,0 | 20 |
| 52022 | 6 x 0,5 | 9,5 | 30,0 | 2,8 | 146,0 | 20 |
| 52023 | 7 x 0,5 | 9,6 | 34,0 | 2,7 | 158,0 | 20 |
| 52024 | 2 x 0,75 | 7,6 | 14,4 | 5,1 | 95,0 | 19 |
| 52025 | 3 x 0,75 | 7,9 | 21,6 | 5,1 | 109,0 | 19 |
| 52026 | 4 x 0,75 | 8,9 | 29,0 | 4,9 | 131,0 | 19 |
| 52027 | 5 x 0,75 | 9,7 | 36,0 | 4,7 | 157,0 | 19 |
| 52028 | 6 x 0,75 | 10,4 | 43,0 | 4,5 | 177,0 | 19 |
| 52029 | 7 x 0,75 | 10,6 | 50,0 | 4,4 | 190,0 | 19 |
| 52030 | 2 x 1 | 7,8 | 19,0 | 7,0 | 105,0 | 18 |
| 52031 | 3 x 1 | 8,7 | 29,0 | 6,7 | 126,0 | 18 |
| 52032 | 4 x 1 | 9,2 | 38,0 | 6,4 | 148,0 | 18 |
| 52033 | 5 x 1 | 10,0 | 48,0 | 6,2 | 174,0 | 18 |
| 52034 | 6 x 1 | 10,7 | 58,0 | 6,0 | 198,0 | 18 |
| 52035 | 7 x 1 | 10,9 | 67,0 | 5,8 | 212,0 | 18 |
| 52036 | 2 x 1,5 | 8,9 | 29,0 | 9,4 | 132,0 | 16 |
| 52037 | 3 x 1,5 | 9,2 | 43,0 | 9,0 | 153,0 | 16 |

| Part no. | No. cores x cross-sec. mm ² | Outer Ø approx. mm | Cop. weight kg / km | Max. permitt. current carrying capacity at +340°C (A) | Weight approx. kg / km | AWG-No. |
|----------|--|--------------------|---------------------|---|------------------------|---------|
| 52038 | 4 x 1,5 | 10,0 | 58,0 | 8,6 | 183,0 | 16 |
| 52039 | 5 x 1,5 | 10,9 | 72,0 | 8,3 | 212,0 | 16 |
| 52040 | 6 x 1,5 | 11,6 | 88,0 | 8,0 | 241,0 | 16 |
| 52041 | 7 x 1,5 | 11,9 | 101,0 | 7,8 | 259,0 | 16 |
| 52042 | 2 x 2,5 | 10,1 | 48,0 | 12,2 | 191,0 | 14 |
| 52043 | 3 x 2,5 | 10,6 | 72,0 | 11,6 | 213,0 | 14 |
| 52044 | 4 x 2,5 | 11,5 | 96,0 | 11,2 | 256,0 | 14 |
| 52045 | 5 x 2,5 | 12,7 | 120,0 | 10,8 | 307,0 | 14 |
| 52046 | 6 x 2,5 | 14,9 | 144,0 | 10,4 | 359,0 | 14 |
| 52047 | 7 x 2,5 | 15,1 | 168,0 | 10,1 | 388,0 | 14 |
| 52048 | 2 x 4 | 11,9 | 77,0 | 16,0 | 260,0 | 12 |
| 52049 | 3 x 4 | 12,3 | 115,0 | 15,3 | 303,0 | 12 |
| 52050 | 4 x 4 | 15,1 | 154,0 | 14,6 | 378,0 | 12 |
| 52051 | 5 x 4 | 15,6 | 192,0 | 14,1 | 458,0 | 12 |
| 52052 | 7 x 4 | 16,6 | 270,0 | 13,3 | 593,0 | 12 |
| 52053 | 3 x 6 | 16,3 | 173,0 | 20,0 | 442,0 | 10 |
| 52054 | 4 x 6 | 18,3 | 230,0 | 19,0 | 567,0 | 10 |
| 52055 | 5 x 6 | 19,8 | 288,0 | 18,0 | 671,0 | 10 |
| 52056 | 4 x 10 | 22,1 | 384,0 | 26,0 | 866,0 | 8 |
| 52057 | 4 x 16 | 26,6 | 615,0 | 34,0 | 1203,0 | 6 |

Dimensions and specifications may be changed without prior notice. (RE01)