

SiHF

Silicone halogen-free cables, flexible



Cable structure

- Tinned copper conductor, according to DIN VDE 0295 and IEC 60228 cl.5
- Silicone core insulation
- Color coded according to DIN VDE 0293, colored or black cores with white numbering
- For two cores cable, colors brown and blue
- Green-yellow earth core in the outer layer, from 3 cores and more
- Cores stranded in layers with optimal lay-length
- Silicone outer sheath
- Sheath color red-brown, other sheath color on request

Technical data

- Special silicone cable, extensively heat resistant
- **Temperature range** from -60 °C to +180 °C
short time +200 °C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage a.c.** 2000 V
- **Spark test** min. 5000 V
- **Insulation resistance** min. 200 M Ω × km
- **Minimum bending radius** approx. 7,5× cable diameter
- **Radiation resistance** up to 20 × 10⁶ cJ/kg (up to 20 Mrad)
- **Halogen-free** acc. to DIN VDE 0482 part 267/EN 50267-2-1/IEC 60754-1
- **Self-extinguishing and flame retardant** sheath according to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1

Advantages

- Low changes of dielectric strength and insulation resistance at high temperatures
- High ignition point, in case of fire forms an insulating layer SiO₂

Application

These silicone cables are used in all areas with permanently high temperatures up to 180 °C, short term up to 200 °C, as well as for areas with low temperatures up to -60 °C. Silicone cables are halogen-free and are used in power plants, in iron mills, steel-works, rolling-mills, in aviation and ship industry in cement, glass and ceramic factories etc.

Resistant to

high molecular oils, fats, alcohols, oxygen, sea water, weather-proofed.

Note

Fixed installation only in open or ventilated pipe systems or ducts. Otherwise the mechanical properties of the silicone are reduced in the enclosed areas with air temperatures exceeding 90 °C

CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC.

Conforms to RoHS. -

| Part No. | Number of cores x core cross section [mm ²] | Approx. outer \varnothing [mm] | Cooper weight [kg/km] | Approx. cable weight [kg/km] |
|----------|---|--|--------------------------|------------------------------------|
| 0422989 | 2×0,5 | 5,5 | 9,6 | 42 |
| 0422990 | 3×0,5 | 5,8 | 14,5 | 44 |
| 0422991 | 4×0,5 | 6,2 | 19,3 | 58 |
| 0422992 | 5×0,5 | 6,8 | 24,0 | 62 |
| 0422993 | 6×0,5 | 7,4 | 28,9 | 79 |
| 0422994 | 7×0,5 | 8,0 | 33,7 | 85 |
| 0422995 | 8×0,5 | 8,6 | 38,4 | 99 |
| 0422996 | 10×0,5 | 9,5 | 48,1 | 124 |
| 0422997 | 12×0,5 | 9,8 | 57,6 | 141 |
| 0422998 | 16×0,5 | 11,0 | 76,7 | 186 |
| 0422999 | 18×0,5 | 11,5 | 86,5 | 211 |
| 0423000 | 24×0,5 | 13,7 | 115,3 | 271 |
| 0423001 | 2×0,75 | 6,4 | 14,4 | 53 |
| 0423002 | 3×0,75 | 6,8 | 21,6 | 63 |
| 0423003 | 4×0,75 | 7,8 | 29,0 | 83 |
| 0423004 | 5×0,75 | 8,5 | 36,0 | 101 |
| 0423005 | 6×0,75 | 8,9 | 43,0 | 115 |
| 0423006 | 7×0,75 | 9,3 | 50,0 | 124 |
| 0423127 | 8×0,75 | 9,7 | 57,7 | 138 |
| 0423128 | 10×0,75 | 10,9 | 72,1 | 156 |
| 0423129 | 12×0,75 | 11,1 | 86,5 | 185 |
| 0423130 | 16×0,75 | 12,6 | 115,2 | 218 |
| 0423131 | 18×0,75 | 13,3 | 129,7 | 260 |
| 0423132 | 24×0,75 | 15,6 | 172,6 | 370 |

| Part No. | Number of cores x core cross section [mm ²] | Approx. outer \varnothing [mm] | Cooper weight [kg/km] | Approx. cable weight [kg/km] |
|----------|---|--|--------------------------|------------------------------------|
| 0423007 | 2×1 | 6,6 | 19,0 | 59 |
| 0423008 | 3×1 | 7,4 | 29,0 | 77 |
| 0423009 | 4×1 | 8,0 | 38,0 | 94 |
| 0423010 | 5×1 | 8,6 | 48,0 | 115 |
| 0423011 | 6×1 | 9,2 | 58,0 | 134 |
| 0423012 | 7×1 | 9,8 | 67,0 | 144 |
| 0423133 | 8×1 | 10,4 | 76,7 | 175 |
| 0423134 | 10×1 | 11,3 | 96,1 | 216 |
| 0423135 | 12×1 | 11,5 | 115,2 | 231 |
| 0423136 | 16×1 | 13,1 | 153,5 | 302 |
| 0423137 | 18×1 | 13,8 | 172,9 | 340 |
| 0423138 | 24×1 | 16,2 | 230,5 | 431 |
| 0423013 | 2×1,5 | 7,6 | 29,0 | 81 |
| 0423014 | 3×1,5 | 8,0 | 43,0 | 98 |
| 0423015 | 4×1,5 | 8,8 | 58,0 | 122 |
| 0423016 | 5×1,5 | 9,6 | 72,0 | 147 |
| 0423017 | 6×1,5 | 10,4 | 86,0 | 173 |
| 0423018 | 7×1,5 | 11,0 | 101,0 | 187 |
| 0423019 | 8×1,5 | 11,6 | 114,0 | 213 |
| 0423020 | 10×1,5 | 13,6 | 116,0 | 263 |
| 0423021 | 12×1,5 | 14,6 | 173,0 | 314 |
| 0423022 | 14×1,5 | 15,4 | 202,0 | 379 |
| 0423023 | 16×1,5 | 16,7 | 231,0 | 445 |
| 0423024 | 18×1,5 | 17,6 | 260,0 | 506 |
| 0423025 | 20×1,5 | 18,2 | 288,0 | 566 |

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| Part No. | Number of cores x core cross section [mm²] | Approx. outer Ø [mm] | Cooper weight [kg/km] | Approx. cable weight [kg/km] |
|----------|--|----------------------------|--------------------------|------------------------------------|
| 0423026 | 24×1,5 | 20,0 | 346,0 | 722 |
| 0423027 | 2×2,5 | 9,2 | 48,0 | 134 |
| 0423028 | 3×2,5 | 9,7 | 72,0 | 152 |
| 0423029 | 4×2,5 | 10,6 | 96,0 | 188 |
| 0423030 | 5×2,5 | 11,6 | 120,0 | 228 |
| 0423139 | 6×2,5 | 12,9 | 144,0 | 304 |
| 0423032 | 7×2,5 | 13,0 | 168,0 | 320 |
| 0423140 | 8×2,5 | 14,9 | 192,2 | 373 |
| 0423141 | 10×2,5 | 16,5 | 240,1 | 450 |
| 0423033 | 12×2,5 | 17,8 | 288,0 | 502 |
| 0423142 | 16×2,5 | 19,1 | 384,0 | 659 |
| 0423143 | 18×2,5 | 20,0 | 432,2 | 761 |
| 0423144 | 24×2,5 | 24,5 | 576,0 | 1007 |
| 0423034 | 2×4 | 10,8 | 77,0 | 180 |
| 0423035 | 3×4 | 11,4 | 115,0 | 224 |
| 0423036 | 4×4 | 13,1 | 154,0 | 295 |
| 0423037 | 5×4 | 14,4 | 192,0 | 359 |
| 0423039 | 7×4 | 16,2 | 269,0 | 479 |
| 0423040 | 2×6 | 13,4 | 115,0 | 274 |
| 0423041 | 3×6 | 14,2 | 173,0 | 338 |
| 0423042 | 4×6 | 16,2 | 230,0 | 441 |
| 0423043 | 5×6 | 17,7 | 288,0 | 535 |
| 0423045 | 7×6 | 19,2 | 403,0 | 685 |
| 0423046 | 2×10 | 17,6 | 192,0 | 400 |
| 0423047 | 3×10 | 18,7 | 288,0 | 620 |
| 0423048 | 4×10 | 20,4 | 384,0 | 707 |
| 0423049 | 5×10 | 22,5 | 480,0 | 900 |
| 0423145 | 7×10 | 24,4 | 672,2 | 1151 |
| 0423050 | 2×16 | 20,4 | 308,0 | 400 |
| 0423051 | 3×16 | 22,0 | 462,0 | 500 |
| 0423052 | 4×16 | 24,3 | 616,0 | 614 |
| 0423053 | 5×16 | 26,7 | 770,0 | 850 |
| 0423146 | 7×16 | 27,6 | 1075,3 | 1682 |
| 0423054 | 2×25 | 24,6 | 480,0 | 700 |
| 0423055 | 3×25 | 26,2 | 720,0 | 1100 |
| 0423056 | 4×25 | 31,8 | 960,0 | 1500 |
| 0423057 | 2×35 | 28,2 | 672,0 | 1100 |
| 0423058 | 3×35 | 29,9 | 1008,0 | 1500 |
| 0423059 | 4×35 | 32,8 | 1344,0 | 2100 |