



Technical data

- Heat-resistant multicore cable to DIN VDE 0282 part 15, HD 22.15 S1
- **Temperature range**
fixed installation -60 °C to +180 °C (250 °C for short time)
- **Temperature limit**
at conductor in operation +180 °C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** 2000 V
- **Specific volume resistivity**
min. 200 MOhm x km
- **Minimum bending radius**
flexing 7,5x cable \varnothing
fixed installation 4x cable \varnothing
- **Radiation resistance**
up to 20×10^6 cJ/kg (up to 20 Mrad)

Cable structure

- Tinned or bare(1) copper conductor, stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5, HD 383 cl. 5 and IEC 60228
- SIR core insulation, crosslinked (rubber compound) E I2 to DIN VDE 0207 part 20
- Core identification to DIN VDE 0293-308
- Green-yellow earth core, 3 cores and above
- Cores stranded in layers with optimal lay-length
- Outer jacket of crosslinked EM9 (rubber compound) to HD 22.3 S3 : 1994 / A1 : 1999
- Jacket colour black (RAL 9005)
- Also available in other sheath colours

Cable structure H05SST-F

- As per H05SS-F
- Polyester braiding

Properties

• Behavior in fire:

- Test of vertical flame-propagation to DIN VDE 0482 part 265-2-1 and DIN EN 50265-2-1, not valid for the cables with polyesterbraiding (Type H05SST-F)
- Advantages Hardly changes of dielectric strength and the insulation resistance also at high temperatures
- For laying as a fixed installation only in open or ventilated pipe systems as well as in ducts. Otherwise the mechanical properties of the silicon are reduced by the enclosed air at temperatures exceeding 90 °C. These cables may be damaged by pulling over sharp-edges or by abrasion during the installation and application. To avoid this, it should be treated with great care during the installation and application of the cable.

Note

- G = with green-yellow earth core;
x = without green-yellow earth core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

Multicore cables insulated and sheathed with heat resistant silicone rubber without strain relieving elements are used in high temperatures or with contact to hot-surfaces. These cables are installed for fixed installation, mechanical protected, for internal wiring of lighting fixtures in industrial application. It is recommended for the application of the apparatus which are moving during the operation with less mechanical stress.

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

H05SS-F

| Part no. | No. cores x cross-sec. mm ² | Outer Ø min. - max. mm | Cop. weight kg / km | Weight approx. kg / km | AWG-No. |
|----------|--|------------------------|---------------------|------------------------|---------|
| 22290 | 2 x 0,75 | 5,7 - 7,4 | 14,4 | 59,0 | 18 |
| 22291 | 3 G 0,75 | 6,2 - 8,1 | 21,6 | 71,0 | 18 |
| 22292 | 4 G 0,75 | 6,8 - 8,8 | 28,8 | 93,0 | 18 |
| 22293 | 5 G 0,75 | 7,6 - 9,9 | 36,0 | 113,0 | 18 |
| 22294 | 2 x 1 | 6,1 - 8,0 | 19,2 | 67,0 | 17 |
| 22295 | 3 G 1 | 6,5 - 8,5 | 29,0 | 86,0 | 17 |
| 22296 | 4 G 1 | 7,1 - 9,3 | 38,4 | 105,0 | 17 |
| 22297 | 5 G 1 | 8,0 - 10,3 | 48,0 | 129,0 | 17 |
| 22298 | 2 x 1,5 | 7,6 - 9,8 | 29,0 | 91,0 | 16 |
| 22299 | 3 G 1,5 | 8,0 - 10,4 | 43,0 | 110,0 | 16 |
| 22300 | 4 G 1,5 | 9,0 - 11,6 | 58,0 | 137,0 | 16 |
| 22301 | 5 G 1,5 | 9,8 - 12,7 | 72,0 | 165,0 | 16 |
| 22302 | 2 x 2,5 | 9,0 - 11,6 | 48,0 | 150,0 | 14 |
| 22303 | 3 G 2,5 | 9,6 - 12,4 | 72,0 | 170,0 | 14 |
| 22304 | 4 G 2,5 | 10,7 - 13,8 | 96,0 | 211,0 | 14 |
| 22305 | 5 G 2,5 | 11,9 - 15,3 | 120,0 | 255,0 | 14 |
| 22306 | 3 G 4 | 11,3 - 14,5 | 115,0 | 251,0 | 12 |
| 22307 | 4 G 4 | 12,7 - 16,2 | 154,0 | 330,0 | 12 |
| 22308 | 3 G 6 | 12,8 - 16,3 | 173,0 | 379,0 | 10 |
| 22309 | 4 G 6 | 14,2 - 18,1 | 230,0 | 494,0 | 10 |

H05SS-F

| Part no. | No. cores x cross-sec. mm ² | Outer Ø min. - max. mm | Cop. weight kg / km | Weight approx. kg / km | AWG-No. |
|----------|--|------------------------|---------------------|------------------------|---------|
| 22343 | 2 x 0,75 | 6,7 - 8,4 | 14,4 | 63,0 | 18 |
| 22344 | 3 G 0,75 | 7,2 - 9,1 | 21,6 | 75,0 | 18 |
| 22345 | 4 G 0,75 | 7,8 - 9,8 | 28,8 | 99,0 | 18 |
| 22346 | 5 G 0,75 | 8,6 - 10,9 | 36,0 | 120,0 | 18 |
| 22347 | 2 x 1 | 7,1 - 9,0 | 19,2 | 71,0 | 17 |
| 22348 | 3 G 1 | 7,5 - 9,5 | 29,0 | 91,0 | 17 |
| 22349 | 4 G 1 | 8,1 - 10,3 | 38,4 | 111,0 | 17 |
| 22350 | 5 G 1 | 9,0 - 11,3 | 48,0 | 137,0 | 17 |
| 22351 | 2 x 1,5 | 8,6 - 10,8 | 29,0 | 97,0 | 16 |
| 22352 | 3 G 1,5 | 9,0 - 11,4 | 43,0 | 117,0 | 16 |
| 22353 | 4 G 1,5 | 10,0 - 12,6 | 58,0 | 145,0 | 16 |
| 22354 | 5 G 1,5 | 10,8 - 13,7 | 72,0 | 175,0 | 16 |
| 22355 | 2 x 2,5 | 10,0 - 12,6 | 48,0 | 159,0 | 14 |
| 22356 | 3 G 2,5 | 10,6 - 13,4 | 72,0 | 180,0 | 14 |
| 22357 | 4 G 2,5 | 11,7 - 14,8 | 96,0 | 224,0 | 14 |
| 22358 | 5 G 2,5 | 12,9 - 16,3 | 120,0 | 270,0 | 14 |
| 22359 | 3 G 4 | 12,3 - 15,5 | 115,0 | 266,0 | 12 |
| 22360 | 4 G 4 | 13,7 - 17,2 | 154,0 | 350,0 | 12 |
| 22361 | 3 G 6 | 13,8 - 17,3 | 173,0 | 402,0 | 10 |
| 22362 | 4 G 6 | 15,2 - 19,1 | 230,0 | 524,0 | 10 |

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