We Make Modern Life Possible.

SAFETY CABLES

# (N)HXH FE180/E30 (VDE)



## SiR/FRNC halogen-free energy cable with insulation integrity and circuit integrity

These cables are intended for the stationary distribution of electrical energy in dry or damp premises and for fixed installations in air or concrete. Suitable for hotels, hospitals, underground railways, airports etc. to protect people and technical building equipment in the event of fire.. Not allowed for installations underground or in water. These cables are not UV-protected.

## TECHNICAL DATA

**Standard**
adapted to DIN VDE 0266

**Certificate**
VDE Germany

**Test Voltage**
core/core 4 kV / 50 Hz

**Rated Voltage**
0,6/1 kV

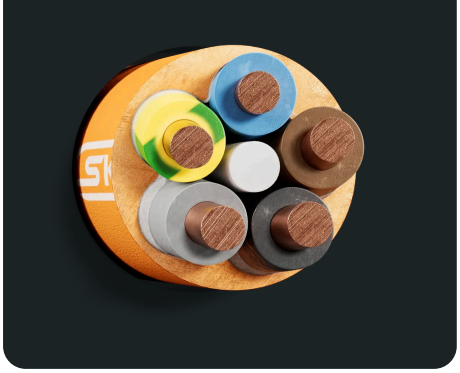
**Bending radius (min.)**
12 x Ø of cable (multicore)
15 x Ø of cable (singlecore)

**Fire properties**
EN 60332-1-2: flame retardant and self-extinguishing
EN 60754-2: halogen-free, non-corrosive combustion gases
EN IEC 60332-3-24: reduced flame propagation
EN 61034-2: low smoke emission
IEC 60331-21, DIN VDE 0472-814: insulation integrity FE 180
DIN 4102-12: circuit integrity

**Core identification**
HD 308 S2

**Temperature range**
Laying temperature: min. -5°C
Operating temperature: -50°C up to 90°C
Conductor temperature: max. 90°C
Short circuit temperature: max. 250°C

## DESIGN



1. Copper conductor, round solid (RE) resp. round stranded (RM)
2. Core insulation (silicone rubber)
3. Inner covering (halogen-free fixation tape)
4. Sheath (halogen-free polymer compound, orange)

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| Number of cores x nominal cross-section (mm²) | Max. conductor resistance (Ω/km) | Current rating in the air (A) | Outer diameter appr. (mm) | Total weight appr. (kg/km) | Standard lengths/packing (m) |
|---|---|---|---|---|---|
| 2 x 1.5 RE | 12.1 | 28 | 10.9 | 161 | 1000 D |
| 3 x 1.5 RE | 12.1 | 24 | 11.4 | 182 | 1000 D |
| 4 x 1.5 RE | 12.1 | 24 | 12.3 | 214 | 1000 D |
| 5 x 1.5 RE | 12.1 | 16 | 13.3 | 247 | 1000 D |
| 7 x 1.5 RE | 12.1 | 16 | 14.3 | 306 | 1000 D |
| 8 x 1.5 RE | 12.1 | 15 | 15.9 | 357 | 1000 D |
| 10 x 1.5 RE | 12.1 | 13 | 17.8 | 440 | 500 D |
| 12 x 1.5 RE | 12.1 | 13 | 18.3 | 483 | 500 D |
| 14 x 1.5 RE | 12.1 | 12 | 19.2 | 536 | 500 D |
| 16 x 1.5 RE | 12.1 | 11 | 20.2 | 595 | 500 D |
| 19 x 1.5 RE | 12.1 | 11 | 21.2 | 675 | 500 D |
| 24 x 1.5 RE | 12.1 | 10 | 24.7 | 868 | 500 D |
| 27 x 1.5 RE | 12.1 | 9 | 25.2 | 929 | 500 D |
| 37 x 1.5 RE | 12.1 | 8 | 28.3 | 1204 | 500 D |
| 48 x 1.5 RE | 12.1 | 8 | 32.5 | 1553 | 500 D |
| 2 x 2.5 RE | 7.41 | 37 | 11.7 | 195 | 1000 D |
| 3 x 2.5 RE | 7.41 | 32 | 12.2 | 226 | 1000 D |
| 4 x 2.5 RE | 7.41 | 32 | 13.2 | 268 | 1000 D |
| 5 x 2.5 RE | 7.41 | 22 | 14.3 | 312 | 1000 D |
| 7 x 2.5 RE | 7.41 | 21 | 15.5 | 393 | 1000 D |
| 10 x 2.5 RE | 7.41 | 18 | 19.3 | 568 | 500 D |
| 12 x 2.5 RE | 7.41 | 17 | 19.9 | 630 | 500 D |
| 14 x 2.5 RE | 7.41 | 16 | 20.9 | 704 | 500 D |
| 19 x 2.5 RE | 7.41 | 14 | 23.2 | 896 | 500 D |
| 24 x 2.5 RE | 7.41 | 13 | 27.1 | 1158 | 500 D |
| 30 x 2.5 RE | 7.41 | 12 | 28.8 | 1361 | 500 D |
| 37 x 2.5 RE | 7.41 | 11 | 31.2 | 1636 | 500 D |
| 48 x 2.5 RE | 7.41 | 10 | 35.9 | 2120 | 500 D |
| 1 x 4 RE | 4.61 | 57 | 7.4 | 91 | 1000 D |
| 2 x 4 RE | 4.61 | 49 | 12.5 | 239 | 1000 D |
| 3 x 4 RE | 4.61 | 42 | 13.2 | 282 | 1000 D |
| 4 x 4 RE | 4.61 | 42 | 14.3 | 338 | 1000 D |
| 5 x 4 RE | 4.61 | 28 | 15.5 | 398 | 1000 D |
| 7 x 4 RE | 4.61 | 27 | 16.8 | 506 | 500 D |
| 12 x 4 RE | 4.61 | 22 | 21.7 | 823 | 500 D |
| 19 x 4 RE | 4.61 | 19 | 25.3 | 1186 | 500 D |
| 1 x 6 RE | 3.08 | 73 | 7.9 | 113 | 1000 D |
| 2 x 6 RE | 3.08 | 62 | 13.5 | 296 | 1000 D |
| 3 x 6 RE | 3.08 | 53 | 14.2 | 357 | 1000 D |
| 4 x 6 RE | 3.08 | 53 | 15.4 | 432 | 1000 D |
| 5 x 6 RE | 3.08 | 36 | 16.8 | 512 | 1000 D |
| 7 x 6 RE | 3.08 | 32 | 18.2 | 660 | 500 D |
| 1 x 10 RE | 1.83 | 99 | 8.7 | 156 | 1000 D |
| 2 x 10 RE | 1.83 | 85 | 15.1 | 406 | 1000 D |

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|---|---|---|---|---|---|
| 3 x 10 RE | 1.83 | 74 | 15.9 | 503 | 1000 D |
| 4 x 10 RE | 1.83 | 74 | 17.3 | 618 | 1000 D |
| 4 x 10 RM | 1.83 | 74 | 17.8 | 635 | 1000 D |
| 5 x 10 RE | 1.83 | 49 | 18.9 | 745 | 1000 D |
| 5 x 10 RM | 1.83 | 49 | 19.5 | 766 | 1000 D |
| 7 x 10 RE | 1.83 | 45 | 20.6 | 965 | 500 D |
| 1 x 16 RE | 1.15 | 131 | 9.6 | 216 | 500 D |
| 2 x 16 RE | 1.15 | 113 | 16.9 | 557 | 500 D |
| 2 x 16 RM | 1.15 | 113 | 17.4 | 578 | 500 D |
| 3 x 16 RE | 1.15 | 98 | 17.9 | 703 | 500 D |
| 3 x 16 RM | 1.15 | 98 | 18.4 | 727 | 500 D |
| 4 x 16 RE | 1.15 | 98 | 19.5 | 873 | 500 D |
| 4 x 16 RM | 1.15 | 98 | 20.1 | 901 | 500 D |
| 5 x 16 RE | 1.15 | 65 | 21.4 | 1063 | 500 D |
| 5 x 16 RM | 1.15 | 65 | 22.0 | 1096 | 500 D |
| 7 x 16 RM | 1.15 | 58 | 24.0 | 1430 | 500 D |
| 1 x 25 RM | 0.727 | 177 | 11.5 | 326 | 500 D |
| 2 x 25 RM | 0.727 | 153 | 21.1 | 875 | 500 D |
| 3 x 25 RM | 0.727 | 133 | 22.4 | 1102 | 500 D |
| 3 x 25 + 16 RM/RM | 0.727 | 133 | 23.6 | 1321 | 500 D |
| 4 x 25 RM | 0.727 | 133 | 24.5 | 1373 | 500 D |
| 5 x 25 RM | 0.727 | 90 | 26.9 | 1671 | 500 D |
| 1 x 35 RM | 0.524 | 217 | 12.6 | 423 | 500 D |
| 2 x 35 RM | 0.524 | 187 | 23.2 | 1121 | 500 D |
| 3 x 35 RM | 0.524 | 162 | 24.7 | 1428 | 500 D |
| 3 x 35 + 16 RM/RM | 0.524 | 162 | 25.4 | 1683 | 500 D |
| 3 x 35 + 25 RM/RM | 0.524 | 162 | 26.5 | 1732 | 500 D |
| 4 x 35 RM | 0.524 | 162 | 27.0 | 1790 | 500 D |
| 5 x 35 RM | 0.524 | 109 | 29.9 | 2204 | 500 D |
| 1 x 50 RM | 0.387 | 265 | 14.4 | 560 | 500 D |
| 3 x 50 RM | 0.387 | 197 | 28.4 | 1905 | 500 D |
| 3 x 50 + 25 RM/RM | 0.387 | 197 | 29.9 | 2277 | 500 D |
| 3 x 50 + 35 RM/RM | 0.387 | 197 | 30.6 | 2342 | 500 D |
| 4 x 50 RM | 0.387 | 197 | 31.4 | 2406 | 500 D |
| 5 x 50 RM | 0.387 | 133 | 34.8 | 2958 | 500 D |
| 1 x 70 RM | 0.268 | 336 | 16.2 | 766 | 500 D |
| 3 x 70 RM | 0.268 | 250 | 32.3 | 2609 | 500 D |
| 3 x 70 + 35 RM/RM | 0.268 | 250 | 33.8 | 3113 | 500 D |
| 3 x 70 + 50 RM/RM | 0.268 | 250 | 34.9 | 3182 | 500 D |
| 4 x 70 RM | 0.268 | 250 | 35.8 | 3314 | 500 D |
| 5 x 70 RM | 0.268 | 180 | 39.7 | 4080 | 500 D |
| 1 x 95 RM | 0.193 | 415 | 18.4 | 1036 | 500 D |
| 3 x 95 RM | 0.193 | 308 | 37.1 | 3547 | 500 D |
| 3 x 95 + 50 RM/RM | 0.193 | 308 | 39.1 | 4229 | 500 D |

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|---|---|---|---|---|---|
| 4 x 95 RM | 0.193 | 308 | 41.2 | 4511 | 500 D |
| 5 x 95 RM | 0.193 | 215 | 45.8 | 5563 | 500 D |
| 1 x 120 RM | 0.153 | 485 | 19.8 | 1272 | 500 D |
| 3 x 120 RM | 0.153 | 359 | 40.2 | 4352 | 500 D |
| 3 x 120 + 50 RM/RM | 0.153 | 359 | 41.6 | 5090 | 500 D |
| 3 x 120 + 70 RM/RM | 0.153 | 359 | 42.7 | 5218 | 500 D |
| 4 x 120 RM | 0.153 | 359 | 44.5 | 5533 | 500 D |
| 5 x 120 RM | 0.153 | 247 | 49.6 | 6840 | 500 D |
| 1 x 150 RM | 0.124 | 557 | 21.8 | 1557 | 500 D |
| 3 x 150 RM | 0.124 | 412 | 44.6 | 5344 | 500 D |
| 3 x 150 + 70 RM/RM | 0.124 | 412 | 46.4 | 6332 | 500 D |
| 4 x 150 RM | 0.124 | 412 | 49.5 | 6820 | 500 D |
| 5 x 150 RM | 0.124 | 279 | 55.0 | 8410 | 500 D |
| 1 x 185 RM | 0.099 | 646 | 24.0 | 1927 | 500 D |
| 4 x 185 RM | 0.099 | 480 | 59.8 | 9704 | 500 D |
| 1 x 240 RM | 0.075 | 774 | 27.0 | 2500 | 500 D |
| 3 x 240 + 120 RM/ RM | 0.153 | 565 | 58.8 | 11000 | 500 D |
| 1 x 300 RM | 0.060 | 697 | 30.0 | 3300 | 500 D, 1000D |

Technical changes reserved. All figures are therefore without guarantee.

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