We Make Modern Life Possible.

SAFETY CABLES

# PRAFlaDur+ 90

## (N)HXH FE180/E90, P90-R, PS90, B2ca s1a d1 a1
## SiR/FRNC energy cables, with circuit integrity, UV resistant, Water resistant

Cables are designed for fixed distribution of electricity in buildings with a high concentration of people to protect them and protect the technical equipment of buildings in the event of fire, where there is no requirement to maintain the functionality of the cable installation in fire. In case of fire, the cable releases a small amount of heat and smoke. The cables are resistant to UV radiation and water AD1–AD7.




### TECHNICAL DATA

**Standard**
ČSN 34 7660-100
TP PRAKAB 01/21

**Certificate**
EZÚ Czech Republic
TSÚS Slovakia

**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**
ČSN EN 60332-1-2: self-extinguishing
ČSN EN 60754-2: halogen-free, non-corrosive combustion gases
ČSN EN 61034-2: low smoke emission
ČSN EN 60332-3-22: reduced flame propagation
ČSN 73 0895, STN 92 0205: circuit integrity
ČSN EN 13501-6: fire classification
CPR: B2ca s1a d1 a1

**Core identification**
ČSN 33 0166 ed. 2
ČSN EN 50334

**Temperature range**
Laying temperature: min. -5°C
Operating temperature: -40°C up to 60°C
Conductor temperature: max. 90°C
Short circuit temperature: max. 250°C

### DESIGN



1. Copper conductor, round solid (RE) resp. round stranded (RM)
2. Primary core insulation (silicone rubber)
3. Secondary core insulation (silicone rubber)
4. Inner covering (halogen-free filling compound)
5. Sheath (halogen-free polymer compound, brown, UV resistant, Water resistant)

| Number of cores x nominal cross-section (mm²) | Max. conductor resistance (Ω/km) | Current rating in the earth (A) | Current rating in the air (A) | Outer diameter appr. (mm) | Total weight appr. (kg/km) |
|---|---|---|---|---|---|
| 2 x 1.5 RE | 12.1 | 45 | 28 | 12.0 | 194 |
| 3 x 1.5 RE | 12.1 | 38 | 24 | 12.6 | 217 |
| 4 x 1.5 RE | 12.1 | 38 | 24 | 13.5 | 249 |
| 5 x 1.5 RE | 12.1 | 38 | 24 | 14.5 | 285 |
| 7 x 1.5 RE | 12.1 | 19 | 16 | 15.5 | 345 |
| 10 x 1.5 RE | 12.1 | 17 | 14 | 18.9 | 493 |
| 12 x 1.5 RE | 12.1 | 15 | 13 | 19.5 | 535 |
| 14 x 1.5 RE | 12.1 | 15 | 13 | 20.6 | 601 |
| 19 x 1.5 RE | 12.1 | 12 | 11 | 22.6 | 744 |
| 24 x 1.5 RE | 12.1 | 11 | 10 | 27.2 | 1042 |
| 30 x 1.5 RE | 12.1 | 10 | 9 | 28.7 | 1183 |
| 40 x 1.5 RE | 12.1 | 10 | 8 | 32.6 | 1542 |
| 2 x 2.5 RE | 7.41 | 59 | 37 | 12.8 | 231 |
| 3 x 2.5 RE | 7.41 | 50 | 32 | 13.4 | 263 |
| 4 x 2.5 RE | 7.41 | 50 | 32 | 14.4 | 306 |
| 5 x 2.5 RE | 7.41 | 50 | 32 | 15.5 | 353 |
| 7 x 2.5 RE | 7.41 | 24 | 21 | 16.6 | 434 |
| 12 x 2.5 RE | 7.41 | 19 | 17 | 21.3 | 697 |
| 14 x 2.5 RE | 7.41 | 19 | 16 | 22.2 | 772 |
| 19 x 2.5 RE | 7.41 | 16 | 14 | 24.5 | 968 |
| 24 x 2.5 RE | 7.41 | 14 | 13 | 29.6 | 1347 |
| 30 x 2.5 RE | 7.41 | 14 | 12 | 31.3 | 1553 |
| 40 x 2.5 RE | 7.41 | 13 | 11 | 35.6 | 2025 |
| 2 x 4 RE | 4.61 | 77 | 49 | 13.7 | 278 |
| 3 x 4 RE | 4.61 | 65 | 41 | 14.3 | 322 |
| 4 x 4 RE | 4.61 | 65 | 41 | 15.4 | 380 |
| 5 x 4 RE | 4.61 | 65 | 41 | 16.6 | 443 |
| 2 x 6 RE | 3.08 | 97 | 62 | 14.6 | 340 |
| 3 x 6 RE | 3.08 | 82 | 52 | 15.4 | 401 |
| 4 x 6 RE | 3.08 | 82 | 52 | 16.6 | 443 |
| 5 x 6 RE | 3.08 | 82 | 52 | 18.0 | 562 |
| 2 x 10 RE | 1.83 | 129 | 85 | 16.2 | 458 |
| 3 x 10 RE | 1.83 | 109 | 71 | 17.1 | 555 |
| 4 x 10 RE | 1.83 | 109 | 71 | 18.5 | 672 |
| 5 x 10 RE | 1.83 | 109 | 71 | 20.1 | 802 |
| 1 x 16 RM | 1.15 | 229 | 136 | 12.2 | 287 |
| 2 x 16 RM | 1.15 | 167 | 112 | 18.1 | 618 |
| 3 x 16 RM | 1.15 | 141 | 94 | 19.1 | 764 |
| 4 x 16 RM | 1.15 | 141 | 94 | 20.9 | 948 |
| 5 x 16 RM | 1.15 | 141 | 94 | 22.8 | 1143 |
| 1 x 25 RM | 0.727 | 293 | 180 | 14.1 | 411 |
| 3 x 25 RM | 0.727 | 182 | 126 | 23.5 | 1148 |
| 3 x 25 + 16 RM/RE | 0.727 / 1.15 | 182 | 126 | 24.6 | 1337 |
| 3 x 25 + 16 RM/RM | 0.727 / 1.15 | 182 | 126 | 24.7 | 1345 |

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| Number of cores x nominal cross-section (mm²) | Max. conductor resistance (Ω/km) | Current rating in the earth (A) | Current rating in the air (A) | Outer diameter appr. (mm) | Total weight appr. (kg/km) |
|---|---|---|---|---|---|
| 4 x 25 RM | 0.727 | 182 | 126 | 26.8 | 1545 |
| 5 x 25 RM | 0.727 | 182 | 126 | 29.2 | 1858 |
| 1 x 35 RM | 0.524 | 354 | 220 | 15.2 | 514 |
| 3 x 35 RM | 0.524 | 219 | 155 | 27.0 | 1611 |
| 3 x 35 + 16 RM/RM | 0.524 / 1.15 | 219 | 155 | 27.9 | 1758 |
| 4 x 35 RM | 0.524 | 219 | 155 | 29.3 | 1984 |
| 5 x 35 RM | 0.524 | 219 | 155 | 32.9 | 2471 |
| 1 x 50 RM | 0.387 | 419 | 268 | 17.0 | 663 |
| 3 x 50 RM | 0.387 | 259 | 189 | 30.7 | 2123 |
| 3 x 50 + 25 RM/RM | 0.387 / 0.727 | 259 | 189 | 32.8 | 2427 |
| 4 x 50 RM | 0.387 | 259 | 189 | 34.3 | 2695 |
| 5 x 50 RM | 0.387 | 259 | 189 | 37.8 | 3275 |
| 1 x 70 RM | 0.268 | 515 | 336 | 18.7 | 881 |
| 3 x 70 RM | 0.268 | 317 | 238 | 35.1 | 2918 |
| 3 x 70 + 50 RM/RM | 0.268 / 0.387 | 317 | 238 | 37.7 | 3418 |
| 4 x 70 RM | 0.268 | 317 | 238 | 38.6 | 3644 |
| 5 x 70 RM | 0.268 | 317 | 238 | 42.5 | 4440 |
| 1 x 95 RM | 0.193 | 616 | 412 | 20.9 | 1166 |
| 3 x 95 RM | 0.193 | 379 | 294 | 39.9 | 3913 |
| 3 x 95 + 50 RM/RM | 0.193 / 0.387 | 379 | 294 | 41.9 | 4369 |
| 4 x 95 RM | 0.193 | 379 | 294 | 44.6 | 4976 |
| 5 x 95 RM | 0.193 | 379 | 294 | 49.2 | 6071 |
| 1 x 120 RM | 0.153 | 703 | 479 | 22.3 | 1411 |
| 3 x 120 RM | 0.153 | 432 | 341 | 43.0 | 4757 |
| 3 x 120 + 70 RM/RM | 0.153 / 0.268 | 432 | 341 | 46.0 | 5484 |
| 4 x 120 RM | 0.153 | 432 | 341 | 47.9 | 6043 |
| 5 x 120 RM | 0.153 | 432 | 341 | 53.0 | 7397 |
| 1 x 150 RM | 0.124 | 787 | 547 | 24.3 | 1709 |
| 3 x 150 RM | 0.124 | 483 | 391 | 47.9 | 6043 |
| 3 x 150 + 70 RM/RM | 0.124 / 0.268 | 483 | 391 | 50.4 | 6553 |
| 3 x 150 + 95 RM/RM | 0.124 / 0.193 | 483 | 391 | 51.1 | 6813 |
| 4 x 150 RM | 0.124 | 483 | 391 | 52.9 | 7398 |
| 5 x 150 RM | 0.124 | 483 | 391 | 58.8 | 9108 |
| 1 x 185 RM | 0.099 | 887 | 630 | 26.5 | 2094 |
| 3 x 185 RM | 0.099 | 544 | 451 | 52.8 | 7252 |
| 3 x 185 + 95 RM/RM | 0.099 / 0.193 | 544 | 451 | 55.6 | 8177 |
| 4 x 185 RM | 0.099 | 544 | 451 | 58.6 | 9190 |
| 5 x 185 RM | 0.075 | 544 | 451 | 64.9 | 11257 |
| 1 x 240 RM | 0.075 | 1030 | 750 | 29.5 | 2686 |
| 3 x 240 RM | 0.075 | 629 | 534 | 59.6 | 9403 |
| 3 x 240 + 120 RM/RM | 0.075 / 0.153 | 629 | 534 | 62.0 | 10436 |
| 4 x 240 RM | 0.075 | 629 | 534 | 66.2 | 11912 |

Technical changes reserved. All figures are therefore without guarantee.



**CONTACT PERSON**

**Ing. Štěpán Laštůvka**
Product Supervisor
+420 732 912 682
stepan.lastuvka@prakab.com