

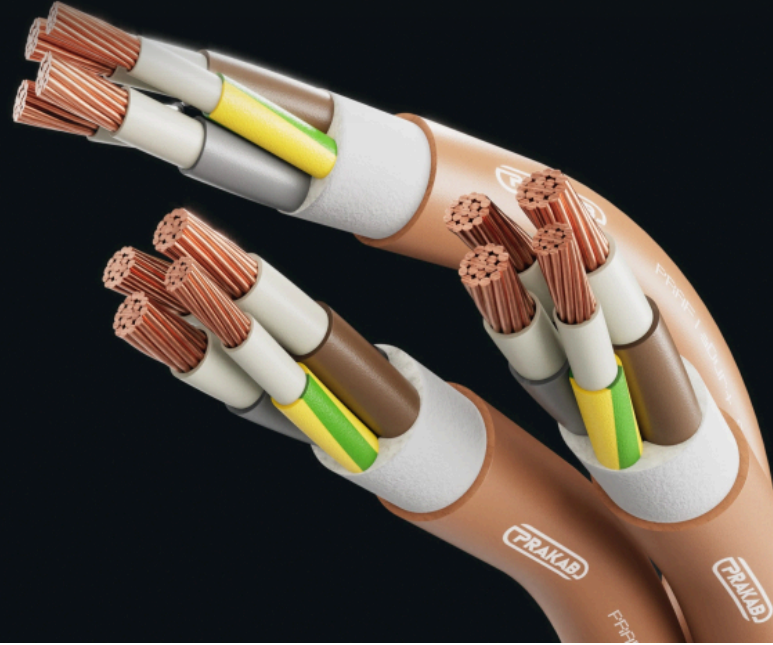


PRAFlaDur+ 90

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

SAFETY CABLES WITH CIRCUIT INTEGRITY

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
TP PRAKAB 04/08
ZP PRAKAB 01/17



Core identification
ČSN 33 0166 ed. 2
ČSN EN 50334



Certificate
EZÚ Czech Republic
TSÚS Slovakia



Rated Voltage
0.6/1 kV



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
OPR: B2ca s1a d1 a1



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

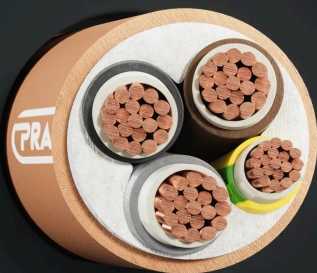


Test Voltage
core/core 4 kV / 50 Hz



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

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 (mm ²) | 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 |
| 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 |



| Number of cores x nominal cross-section (mm ²) | 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) |
|--|----------------------------------|---------------------------------|-------------------------------|---------------------------|----------------------------|
| 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 |

CONTACT PERSON

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

