



## 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



#### 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

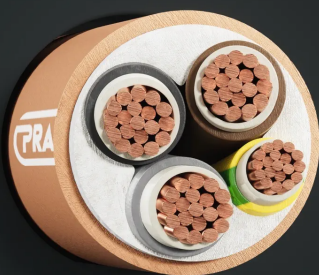
ČSN 33 0166 ed. 2  
ČSN EN 50334



#### 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 (mm <sup>2</sup> ) | 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 <sup>2</sup> ) | 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

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