

LOW VOLTAGE CABLES 0,6/1 kV

# PRAFlaSafe + X

1-CXKH-R B2ca s1a d1 a1  
XLPE/FRNC copper energy cable, halogen-  
free, UV-resistant, Water resistant



## TECHNICAL DATA



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



**Certificate**  
EZÚ Czech Republic



**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 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: -50°C up to 60°C  
Conductor temperature: max. 90°C  
Short circuit temperature: max. 250°C

## DESIGN



1

Copper conductor, round solid (RE), round stranded (RM)  
resp. sector-shaped stranded (SM)

2

Core insulation (XLPE)

3

Inner covering (halogen-free filling compound)

4

Sheath (halogen-free polymer compound, orange, 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                             | 43                              | 27                            | 9.1                       | 118                        |
| 3 x 1.5 RE                                                 | 12.1                             | 37                              | 24                            | 9.5                       | 134                        |
| 4 x 1.5 RE                                                 | 12.1                             | 37                              | 24                            | 10.1                      | 156                        |
| 5 x 1.5 RE                                                 | 12.1                             | 37                              | 24                            | 10.9                      | 179                        |
| 7 x 1.5 RE                                                 | 12.1                             | 19                              | 16                            | 11.7                      | 220                        |
| 12 x 1.5 RE                                                | 12.1                             | 15                              | 13                            | 15.1                      | 358                        |
| 2 x 2.5 RE                                                 | 7.41                             | 56                              | 36                            | 9.8                       | 149                        |
| 3 x 2.5 RE                                                 | 7.41                             | 48                              | 32                            | 10.3                      | 173                        |
| 4 x 2.5 RE                                                 | 7.41                             | 48                              | 32                            | 11.1                      | 204                        |
| 5 x 2.5 RE                                                 | 7.41                             | 48                              | 32                            | 12.1                      | 243                        |
| 7 x 2.5 RE                                                 | 7.41                             | 24                              | 21                            | 13.0                      | 304                        |
| 12 x 2.5 RE                                                | 7.41                             | 19                              | 17                            | 16.7                      | 490                        |
| 2 x 4 RE                                                   | 4.61                             | 74                              | 48                            | 10.7                      | 190                        |
| 3 x 4 RE                                                   | 4.61                             | 63                              | 42                            | 11.2                      | 225                        |
| 4 x 4 RE                                                   | 4.61                             | 63                              | 42                            | 12.3                      | 275                        |
| 5 x 4 RE                                                   | 4.61                             | 63                              | 28                            | 13.3                      | 323                        |
| 1 x 6 RE                                                   | 3.08                             | 127                             | 72                            | 9.8                       | 155                        |
| 2 x 6 RE                                                   | 3.08                             | 93                              | 62                            | 11.7                      | 244                        |
| 3 x 6 RE                                                   | 3.08                             | 79                              | 53                            | 12.5                      | 300                        |
| 4 x 6 RE                                                   | 3.08                             | 79                              | 53                            | 13.5                      | 364                        |
| 5 x 6 RE                                                   | 3.08                             | 79                              | 53                            | 14.6                      | 431                        |
| 1 x 10 RE                                                  | 1.83                             | 172                             | 99                            | 10.8                      | 207                        |
| 2 x 10 RE                                                  | 1.83                             | 125                             | 85                            | 14.0                      | 371                        |
| 3 x 10 RE                                                  | 1.83                             | 106                             | 74                            | 14.7                      | 457                        |
| 4 x 10 RE                                                  | 1.83                             | 106                             | 74                            | 16.0                      | 560                        |
| 5 x 10 RE                                                  | 1.83                             | 106                             | 74                            | 17.6                      | 682                        |
| 1 x 16 RE                                                  | 1.15                             | 225                             | 131                           | 11.7                      | 271                        |
| 2 x 16 RE                                                  | 1.15                             | 162                             | 113                           | 15.8                      | 520                        |
| 3 x 16 RE                                                  | 1.15                             | 138                             | 98                            | 16.7                      | 653                        |
| 4 x 16 RE                                                  | 1.15                             | 138                             | 98                            | 18.4                      | 819                        |
| 5 x 16 RE                                                  | 1.15                             | 138                             | 98                            | 20.3                      | 1001                       |
| 1 x 25 RM                                                  | 0.727                            | 287                             | 177                           | 13.6                      | 388                        |
| 3 x 25 RM                                                  | 0.727                            | 176                             | 133                           | 21.5                      | 1060                       |
| 3 x 25 + 16 RM/RE                                          | 0.727 / 1.15                     | 176                             | 133                           | 22.5                      | 1212                       |
| 4 x 25 RM                                                  | 0.727                            | 176                             | 133                           | 23.4                      | 1314                       |
| 5 x 25 RM                                                  | 0.727                            | 176                             | 133                           | 26.6                      | 1662                       |
| 1 x 35 RM                                                  | 0.524                            | 348                             | 217                           | 14.8                      | 496                        |
| 3 x 35 + 16 RM/RM                                          | 0.524 / 1.15                     | 212                             | 162                           | 23.6                      | 1452                       |
| 3 x 35 + 25 RM/RM                                          | 0.524 / 0.727                    | 212                             | 162                           | 23.6                      | 1505                       |
| 4 x 35 RM                                                  | 0.524                            | 212                             | 162                           | 27.3                      | 1831                       |
| 5 x 35 RM                                                  | 0.524                            | 212                             | 162                           | 29.9                      | 2208                       |
| 1 x 50 RM                                                  | 0.387                            | 413                             | 265                           | 16.3                      | 631                        |
| 3 x 50 + 25 RM/RM                                          | 0.387 / 0.727                    | 252                             | 197                           | 28.2                      | 2021                       |
| 3 x 50 + 35 RM/RM                                          | 0.387 / 0.524                    | 252                             | 197                           | 28.2                      | 2081                       |



| 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) |
|------------------------------------------------------------|----------------------------------|---------------------------------|-------------------------------|---------------------------|----------------------------|
| 4 x 50 SM                                                  | 0.387                            | 252                             | 197                           | 28.3                      | 2155                       |
| 5 x 50 SM                                                  | 0.387                            | 252                             | 197                           | 29.3                      | 2624                       |
| 1 x 70 RM                                                  | 0.268                            | 505                             | 336                           | 18.2                      | 847                        |
| 3 x 70 RM                                                  | 0.268                            | 307                             | 250                           | 28.9                      | 2298                       |
| 3 x 70 + 35 SM/SM                                          | 0.268 / 0.524                    | 307                             | 250                           | 32.1                      | 2827                       |
| 3 x 70 + 50 SM/SM                                          | 0.268 / 0.387                    | 307                             | 250                           | 32.1                      | 2896                       |
| 4 x 70 SM                                                  | 0.268                            | 307                             | 250                           | 32.1                      | 3032                       |
| 5 x 70 SM                                                  | 0.268                            | 307                             | 250                           | 35.7                      | 3757                       |
| 1 x 95 RM                                                  | 0.193                            | 609                             | 415                           | 19.9                      | 1105                       |
| 3 x 95 SM                                                  | 0.193                            | 370                             | 308                           | 32.3                      | 3115                       |
| 3 x 95 + 50 SM/SM                                          | 0.193 / 0.387                    | 370                             | 308                           | 36.5                      | 3773                       |
| 4 x 95 SM                                                  | 0.193                            | 370                             | 308                           | 36.5                      | 4061                       |
| 5 x 95 SM                                                  | 0.193                            | 370                             | 308                           | 38.5                      | 4998                       |
| 1 x 120 RM                                                 | 0.153                            | 693                             | 485                           | 21.5                      | 1359                       |
| 3 x 120 SM                                                 | 0.153                            | 420                             | 359                           | 35.1                      | 3832                       |
| 3 x 120 + 50 SM/SM                                         | 0.153 / 0.387                    | 420                             | 359                           | 39.8                      | 4582                       |
| 3 x 120 + 70 SM/SM                                         | 0.153 / 0.268                    | 420                             | 359                           | 39.9                      | 4717                       |
| 4 x 120 SM                                                 | 0.153                            | 420                             | 359                           | 39.9                      | 5036                       |
| 5 x 120 SM                                                 | 0.153                            | 420                             | 359                           | 44.5                      | 6312                       |
| 1 x 150 RM                                                 | 0.124                            | 773                             | 557                           | 23.4                      | 1643                       |
| 3 x 150 SM                                                 | 0.124                            | 469                             | 412                           | 38.8                      | 4681                       |
| 3 x 150 + 70 SM/SM                                         | 0.124 / 0.268                    | 469                             | 412                           | 45.2                      | 5765                       |
| 4 x 150 SM                                                 | 0.124                            | 469                             | 412                           | 45.4                      | 6245                       |
| 5 x 150 SM                                                 | 0.124                            | 469                             | 412                           | 48.9                      | 7710                       |
| 1 x 185 RM                                                 | 0.099                            | 879                             | 646                           | 25.7                      | 2023                       |
| 3 x 185 + 95 SM/SM                                         | 0.099 / 0.193                    | 527                             | 475                           | 45.7                      | 6870                       |
| 4 x 185 SM                                                 | 0.099                            | 527                             | 475                           | 50.4                      | 7725                       |
| 5 x 185 SM                                                 | 0.099                            | 527                             | 475                           | 55.3                      | 9636                       |
| 1 x 240 RM                                                 | 0.075                            | 1012                            | 774                           | 28.3                      | 2578                       |
| 3 x 240 + 120 SM/SM                                        | 0.075 / 0.153                    | 610                             | 564                           | 51.1                      | 8782                       |
| 4 x 240 SM                                                 | 0.075                            | 610                             | 564                           | 56.1                      | 9996                       |
| 5 x 240 SM                                                 | 0.075                            | 610                             | 564                           | 65.2                      | 12558                      |
| 1 x 300 RM                                                 | 0.060                            | 1146                            | 901                           | 30.8                      | 3162                       |
| 1 x 400 RM                                                 | 0.047                            | 1312                            | 1060                          | 34.4                      | 3986                       |
| 1 x 500 RM                                                 | 0.037                            | 1492                            | 1252                          | 38.2                      | 5053                       |
| 1 x 630 RM                                                 | 0.028                            | 1700                            | 1486                          | 42.0                      | 6396                       |

## CONTACT PERSON

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

