We Make Modern Life Possible.

POWER CABLES AND OVERHEAD LINES 0.6/1 KV

# PRAFlaSafe + AX

## 1-AXKH-R B2ca s1a d1 a1
## XLPE/FRNC aluminium energy cable, halogen-free, 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

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

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

**Bending radius (min.)**
6 x Ø of cable up to 20 mm
12 x Ø of cable from 20 mm to 40 mm
15 x Ø of cable over 40 mm
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 Clasification: B2ca s1a d1 a1

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

**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. Aluminium conductor, round solid (RE), sector-shaped solid (SE), round stranded (RM), resp. sector-shaped stranded (SM)
2. Core insulation (XLPE)
3. Inner covering (halogen-free tape and halogen free polymer compound)
4. Sheath (halogen-free polymer compound, orange, 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) |
|---|---|---|---|---|---|
| 4 x 16 RE | 1.91 | 108 | 76 | 18.0 | 435 |
| 5 x 16 RE | 1.91 | 108 | 76 | 20.1 | 525 |
| 3 x 25 RM | 1.2 | 138 | 102 | 21.7 | 615 |
| 3 x 25 + 16 RM/RE | 1.2 / 1.91 | 138 | 102 | 22.6 | 670 |
| 3 x 25 + 16 RM/RM | 1.2 / 1.91 | 138 | 102 | 22.6 | 670 |
| 4 x 25 RM | 1.2 | 138 | 102 | 23.7 | 719 |
| 5 x 25 RM | 1.2 | 138 | 102 | 27.3 | 947 |
| 3 x 35 RM | 0.868 | 166 | 126 | 23.9 | 762 |
| 3 x 35 + 25 RM/RM | 0.868 / 1.2 | 166 | 126 | 23.6 | 724 |
| 4 x 35 RE | 0.868 | 166 | 126 | 26.2 | 937 |
| 4 x 35 SM | 0.868 | 166 | 126 | 23.6 | 729 |
| 5 x 35 RM | 0.868 | 166 | 126 | 30.0 | 1168 |
| 1 x 50 RM | 0.641 | 320 | 205 | 16.3 | 349 |
| 3 x 50 + 25 RM/RM | 0.641 / 1.2 | 197 | 149 | 28.2 | 1021 |
| 3 x 50 + 35 RM/RM | 0.641 / 0.868 | 197 | 149 | 28.2 | 1023 |
| 4 x 50 SM | 0.641 | 197 | 149 | 28.3 | 1025 |
| 5 x 50 RM | 0.641 | 197 | 149 | 34.6 | 1559 |
| 5 x 50 SM | 0.641 | 197 | 149 | 29.3 | 1211 |
| 1 x 70 RM | 0.443 | 392 | 260 | 18.1 | 438 |
| 3 x 70 + 50 SM/SM | 0.443 / 0.641 | 241 | 191 | 32.1 | 1391 |
| 4 x 70 SM | 0.443 | 241 | 191 | 32.1 | 1401 |
| 5 x 70 RM | 0.443 | 241 | 191 | 39.7 | 2081 |
| 5 x 70 SM | 0.443 | 241 | 191 | 35.7 | 1718 |
| 1 x 95 RM | 0.32 | 472 | 321 | 19.9 | 540 |
| 3 x 95 SM | 0.32 | 290 | 234 | 32.3 | 1415 |
| 3 x 95 + 50 SM/SM | 0.32 / 0.641 | 290 | 234 | 36.5 | 1790 |
| 3 x 95 + 70 SM/SM | 0.32 / 0.443 | 290 | 234 | 36.5 | 1793 |
| 4 x 95 SM | 0.32 | 290 | 234 | 36.5 | 1794 |
| 5 x 95 RM | 0.32 | 290 | 234 | 45.2 | 2752 |
| 5 x 95 SM | 0.32 | 290 | 234 | 38.5 | 2163 |
| 1 x 120 RM | 0.253 | 538 | 376 | 21.6 | 648 |
| 3 x 120 SM | 0.253 | 330 | 273 | 35.1 | 1690 |
| 3 x 120 + 50 SM/SM | 0.253 / 0.641 | 330 | 273 | 39.8 | 2157 |
| 3 x 120 + 70 SM/SM | 0.253 / 0.443 | 330 | 273 | 39.9 | 2170 |
| 4 x 120 SM | 0.253 | 330 | 273 | 39.9 | 2179 |
| 5 x 120 SM | 0.253 | 330 | 273 | 44.5 | 2740 |
| 1 x 150 RM | 0.206 | 599 | 431 | 23.4 | 762 |
| 3 x 150 SM | 0.206 | 368 | 311 | 38.8 | 2033 |
| 3 x 150 + 70 SM/SM | 0.206 / 0.443 | 368 | 311 | 45.2 | 2713 |
| 4 x 150 SM | 0.206 | 368 | 311 | 45.4 | 2714 |
| 5 x 150 SM | 0.206 | 368 | 311 | 48.9 | 3294 |
| 1 x 185 RM | 0.164 | 675 | 501 | 25.7 | 922 |
| 3 x 185 + 95 SM/SM | 0.164 / 0.32 | 415 | 360 | 50.2 | 3329 |
| 4 x 185 SM | 0.164 | 415 | 360 | 50.4 | 3313 |

## PARAMETERS

| 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) |
|---|---|---|---|---|---|
| 5 x 185 SM | 0.164 | 415 | 360 | 55.3 | 4119 |
| 1 x 240 RM | 0.125 | 786 | 600 | 28.3 | 1131 |
| 3 x 240 + 120 SM/SM | 0.125 / 0.253 | 483 | 427 | 55.9 | 4202 |
| 4 x 240 SM | 0.125 | 483 | 427 | 56.1 | 4194 |
| 5 x 240 SM | 0.125 | 483 | 427 | 65.2 | 5302 |
| 1 x 300 RM | 0.1 | 890 | 696 | 30.8 | 1346 |
| 1 x 400 RM | 0.078 | 1024 | 821 | 34.6 | 1672 |
| 1 x 500 RM | 0.061 | 1171 | 971 | 38.0 | 2073 |

Technical changes reserved. All figures are therefore without guarantee.



**CONTACT PERSON**

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