KONEKA

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 / 1.9	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.

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