

LOW VOLTAGE CABLES 0,6/1 kV

PRAFlaSafe + AX

1-AXKH-R B2ca s1a d1 a1

XLPE/FRNC aluminium 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.)

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 Classification: B2ca s1a d1 a1



Core identification

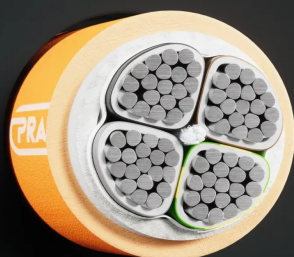
ČSN 33 0166 ed. 2



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



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



Core insulation (XLPE)



Inner covering (halogen-free tape and halogen free polymer compound)



Sheath (halogen-free polymer compound, orange, UV resistant, Water resistant)

PARAMETERS

XLPE/FRNC aluminium energy cable, halogen-free, 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)
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



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)
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

CONTACT PERSON

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