We Make Modern Life Possible.

POWER CABLES AND OVERHEAD LINES 0.6/1 KV

PRAFlaSafe + X

1-CXKH-R B2ca s1a d1 a1
XLPE/FRNC copper 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.)
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 (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)
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 (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 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

Technical changes reserved. All figures are therefore without guarantee.



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