

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 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)
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 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 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 + 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

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