

SAFETY CABLES WITH CIRCUIT INTEGRITY

PRAFlaDur+ 90

(N)HXH FE180/E90, P90-R, PS90, B2ca s1a d1
a1

SiR/FRNC energy cables, with circuit integrity,
UV resistant, Water resistant



TECHNICAL DATA



Standard
TP PRAKAB 04/08
ZP PRAKAB 01/17



Certificate
EZÚ Czech Republic
TSÚS Slovakia



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 73 0895, STN 92 0205: circuit integrity
ČSN EN 13501-6: fire classification
OPR: B2ca s1a d1 a1

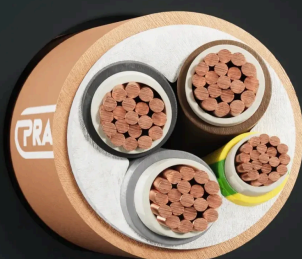


Core identification
ČSN 33 0166 ed. 2
ČSN EN 50334



Temperature range
Laying temperature: min. -5°C
Operating temperature: -40°C up to 60°C
Conductor temperature: max. 90°C
Short circuit temperature: max. 250°C

DESIGN



1

Copper conductor, round solid (RE) resp. round stranded (RM)

2

Primary core insulation (silicone rubber)

3

Secondary core insulation (silicone rubber)

4

Inner covering (halogen-free filling compound)

5

Sheath (halogen-free polymer compound, brown, 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	45	28	12.0	194
3 x 1.5 RE	12.1	38	24	12.6	217
4 x 1.5 RE	12.1	38	24	13.5	249
5 x 1.5 RE	12.1	38	24	14.5	285
7 x 1.5 RE	12.1	19	16	15.5	345
10 x 1.5 RE	12.1	17	14	18.9	493
12 x 1.5 RE	12.1	15	13	19.5	535
14 x 1.5 RE	12.1	15	13	20.6	601
19 x 1.5 RE	12.1	12	11	22.6	744
24 x 1.5 RE	12.1	11	10	27.2	1042
30 x 1.5 RE	12.1	10	9	28.7	1183
40 x 1.5 RE	12.1	10	8	32.6	1542
2 x 2.5 RE	7.41	59	37	12.8	231
3 x 2.5 RE	7.41	50	32	13.4	263
4 x 2.5 RE	7.41	50	32	14.4	306
5 x 2.5 RE	7.41	50	32	15.5	353
7 x 2.5 RE	7.41	24	21	16.6	434
12 x 2.5 RE	7.41	19	17	21.3	697
14 x 2.5 RE	7.41	19	16	22.2	772
19 x 2.5 RE	7.41	16	14	24.5	968
24 x 2.5 RE	7.41	14	13	29.6	1347
30 x 2.5 RE	7.41	14	12	31.3	1553
40 x 2.5 RE	7.41	13	11	35.6	2025
2 x 4 RE	4.61	77	49	13.7	278
3 x 4 RE	4.61	65	41	14.3	322
4 x 4 RE	4.61	65	41	15.4	380
5 x 4 RE	4.61	65	41	16.6	443
2 x 6 RE	3.08	97	62	14.6	340
3 x 6 RE	3.08	82	52	15.4	401
4 x 6 RE	3.08	82	52	16.6	443
5 x 6 RE	3.08	82	52	18.0	562
2 x 10 RE	1.83	129	85	16.2	458
3 x 10 RE	1.83	109	71	17.1	555
4 x 10 RE	1.83	109	71	18.5	672
5 x 10 RE	1.83	109	71	20.1	802
1 x 16 RM	1.15	229	136	12.2	287
2 x 16 RM	1.15	167	112	18.1	618
3 x 16 RM	1.15	141	94	19.1	764
4 x 16 RM	1.15	141	94	20.9	948
5 x 16 RM	1.15	141	94	22.8	1143
1 x 25 RM	0.727	293	180	14.1	411
3 x 25 RM	0.727	182	126	23.5	1148
3 x 25 + 16 RM/RE	0.727 / 1.15	182	126	24.6	1337
3 x 25 + 16 RM/RM	0.727 / 1.15	182	126	24.7	1345



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 25 RM	0.727	182	126	26.8	1545
5 x 25 RM	0.727	182	126	29.2	1858
1 x 35 RM	0.524	354	220	15.2	514
3 x 35 RM	0.524	219	155	27.0	1611
3 x 35 + 16 RM/RM	0.524 / 1.15	219	155	27.9	1758
4 x 35 RM	0.524	219	155	29.3	1984
5 x 35 RM	0.524	219	155	32.9	2471
1 x 50 RM	0.387	419	268	17.0	663
3 x 50 RM	0.387	259	189	30.7	2123
3 x 50 + 25 RM/RM	0.387 / 0.727	259	189	32.8	2427
4 x 50 RM	0.387	259	189	34.3	2695
5 x 50 RM	0.387	259	189	37.8	3275
1 x 70 RM	0.268	515	336	18.7	881
3 x 70 RM	0.268	317	238	35.1	2918
3 x 70 + 50 RM/RM	0.268 / 0.387	317	238	37.7	3418
4 x 70 RM	0.268	317	238	38.6	3644
5 x 70 RM	0.268	317	238	42.5	4440
1 x 95 RM	0.193	616	412	20.9	1166
3 x 95 RM	0.193	379	294	39.9	3913
3 x 95 + 50 RM/RM	0.193 / 0.387	379	294	41.9	4369
4 x 95 RM	0.193	379	294	44.6	4976
5 x 95 RM	0.193	379	294	49.2	6071
1 x 120 RM	0.153	703	479	22.3	1411
3 x 120 RM	0.153	432	341	43.0	4757
3 x 120 + 70 RM/RM	0.153 / 0.268	432	341	46.0	5484
4 x 120 RM	0.153	432	341	47.9	6043
5 x 120 RM	0.153	432	341	53.0	7397
1 x 150 RM	0.124	787	547	24.3	1709
3 x 150 RM	0.124	483	391	47.9	6043
3 x 150 + 70 RM/RM	0.124 / 0.268	483	391	50.4	6553
3 x 150 + 95 RM/RM	0.124 / 0.193	483	391	51.1	6813
4 x 150 RM	0.124	483	391	52.9	7398
5 x 150 RM	0.124	483	391	58.8	9108
1 x 185 RM	0.099	887	630	26.5	2094
3 x 185 RM	0.099	544	451	52.8	7252
3 x 185 + 95 RM/RM	0.099 / 0.193	544	451	55.6	8177
4 x 185 RM	0.099	544	451	58.6	9190
5 x 185 RM	0.075	544	451	64.9	11257
1 x 240 RM	0.075	1030	750	29.5	2686
3 x 240 RM	0.075	629	534	59.6	9403
3 x 240 + 120 RM/RM	0.075 / 0.153	629	534	62.0	10436
4 x 240 RM	0.075	629	534	66.2	11912



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