

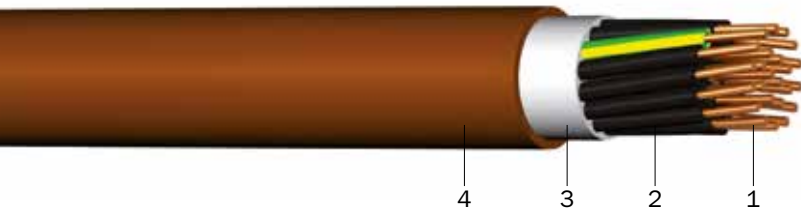
PRAFlaDur®

1-CSKH-V180 P15-R - P60-R, PH120-R, P₇₅₀ 90-R M, PS15 – PS60 B2_{ca} s1d1a1

Halogen-free energy cables with low heat release rate in case of fire

with circuit integrity of whole cable installation according to ČSN 73 0895, STN 92 0205

DESIGN



- 1 | Copper conductor, round solid (RE) or round stranded (RM)
- 2 | Core insulation (silicone rubber)
- 3 | Inner covering (halogen-free polymer compound)
- 4 | Sheath (halogen-free polymer compound, brown)

TECHNICAL DATA



Standard:
TP PRAKAB 01/05



Rated voltage:
0.6/1 kV



Test voltage:
4 kV/50 Hz



Temperature range:
laying temperature: min. -5 °C
operating temperature: -30 °C up to +90 °C
short-circuit temperature: max. +250 °C/5 sec



Bending radius (min.):
6 x Ø of cable for Ø < 20 mm
12 x Ø of cable for Ø 20 mm to 40 mm
15 x Ø of cable for Ø > 40 mm



Core identification:
HD 308 S2, EN 50334



Fire properties:
flame retardant:
EN 60332-1-2
halogen-free, non-corrosive combustion gases:
EN 60754-2
low smoke emission:
EN 61034-2
reduced flame propagation:
EN 60332-3-22
insulation integrity:
IEC 60331-21 – 180 min.
circuit integrity:
ČSN 73 0895, STN 92 0205
classification of the reaction to fire:
EN 13501-6



Certificate:
EZÚ Czech Republic, TSÚS Slovensko

APPLICATION

This cable is intended for the stationary distribution of electrical energy in dry or damp premises. Suitable for hotels, hospitals, underground railways, airports etc. to protect people and technical building equipment in the event of fire if circuit integrity is required (circuit integrity is only maintained if these cables are installed with specified supporting elements). The cable releases little heat and smoke under fire. The cable is not UV-resistant.

Number of cores x nominal cross section (mm ²)	Max, conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter ca. (mm)	Total weight ca. (kg/km)	Standard lengths/packing (m)
PRAFlaDur® P60-R					
2 x 1.5 RE	12.531	28.0	10.0	160	1,000 D
3 x 1.5 RE	12.531	24.0	10.4	180	1,000 D
4 x 1.5 RE	12.531	24.0	11.2	210	1,000 D
5 x 1.5 RE	12.531	16.0	12.1	240	1,000 D
7 x 1.5 RE	12.531	15.5	13.1	295	1,000 D
12 x 1.5 RE	12.531	12.5	16.6	440	500 D
19 x 1.5 RE	12.531	10.5	19.3	620	500 D
24 x 1.5 RE	12.531	9.5	23.2	825	500 D

PRAFlaDur®

1-CSKH-V180 P15-R - P60-R, PH120-R, P₇₅₀ 90-R M, PS15 – PS60 B2_{ca} s1d1a1

Number of cores x nominal cross section (mm ²)	Max, conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter ca. (mm)	Total weight ca. (kg/km)	Standard lengths/packing (m)
PRAFlaDur® P60-R					
37 x 1.5 RE	12.531	8.5	26.2	1,140	500 D
48 x 1.5 RE	12.531	7.5	29.8	1,430	500 D
2 x 2.5 RE	7.520	37.0	10.8	200	1,000 D
3 x 2.5 RE	7.520	32.0	11.3	225	1,000 D
4 x 2.5 RE	7.520	32.0	12.2	265	1,000 D
5 x 2.5 RE	7.520	22.0	13.3	315	1,000 D
7 x 2.5 RE	7.520	20.5	14.3	385	1,000 D
12 x 2.5 RE	7.520	16.5	18.4	595	500 D
19 x 2.5 RE	7.520	14.0	22.0	895	500 D
24 x 2.5 RE	7.520	12.5	25.6	1,120	500 D
37 x 2.5 RE	7.520	11.5	29.2	1,570	500 D
48 x 2.5 RE	7.520	10.0	33.6	2,020	500 D
2 x 4 RE	4.700	49.0	12.7	285	1,000 D
3 x 4 RE	4.700	42.0	13.4	330	1,000 D
4 x 4 RE	4.700	42.0	14.5	390	1,000 D
5 x 4 RE	4.700	28.0	15.7	460	1,000 D
7 x 4 RE	4.700	27.0	16.9	570	1,000 D
12 x 4 RE	4.700	22.0	22.8	945	500 D
1 x 6 RE	3.133	72.0	8.8	150	1,000 D
2 x 6 RE	3.133	62.0	13.7	350	1,000 D
3 x 6 RE	3.133	53.0	14.4	410	1,000 D
4 x 6 RE	3.133	53.0	15.7	490	1,000 D
5 x 6 RE	3.133	36.0	17.0	585	1,000 D
1 x 10 RE	1.880	99.0	9.6	195	1,000 D
2 x 10 RE	1.880	85.0	15.3	465	1,000 D
3 x 10 RE	1.880	74.0	16.1	560	1,000 D
4 x 10 RE	1.880	74.0	17.6	680	1,000 D
5 x 10 RE	1.880	49.0	19.3	820	500 D
1 x 16 RE	1.175	131.0	10.5	260	1,000 D
2 x 16 RE	1.175	113.0	17.1	630	500 D
3 x 16 RE	1.175	98.0	18.3	780	500 D
4 x 16 RE	1.175	98.0	20.7	1,010	500 D
5 x 16 RE	1.175	65.0	22.6	1,210	500 D
1 x 25 RM	0.752	177.0	12.7	380	1,000 D
3 x 25 RE	0.752	133.0	22.2	1,180	500 D
3 x 25 RM	0.752	133.0	24.2	1,310	500 D
3 x 25 RE + 16 RE	0.752/1.175	133.0	24.4	1,390	500 D
3 x 25 RM + 16 RE	0.752/1.175	133.0	26.4	1,500	500 D
4 x 25 RM	0.752	133.0	26.4	1,600	500 D
5 x 25 RM	0.752	90.0	28.9	1,920	500 D
1 x 35 RM	0.537	217.0	13.7	480	1,000 D
2 x 35 RM	0.537	186.0	24.4	1,320	500 D

PRAFlaDur®

1-CSKH-V180 P15-R - P60-R, PH120-R, P₇₅₀ 90-R M, PS15 – PS60 B2_{ca} s1d1a1

Number of cores x nominal cross section (mm ²)	Max, conductor resistance (Ω/km)	Current rating in the air (A)	Outer diameter ca. (mm)	Total weight ca. (kg/km)	Standard lengths/packing (m)
PRAFlaDur® P60-R					
3 x 35 RM	0.537	162.0	25.9	1,640	500 D
3 x 35 RM + 16 RE	0.537/1.175	162.0	28.3	1,830	500 D
3 x 35 RM + 25 RM	0.537/0.752	162.0	28.3	1,930	500 D
4 x 35 RM	0.537	162.0	28.3	2,020	500 D
5 x 35 RM	0.537	109.0	31.3	2,450	500 D
1 x 50 RM	0.387	26.0	15.5	650	1,000 D
3 x 50 RM	0.387	197.0	29.8	2,260	500 D
3 x 50 RM + 25 RM	0.387/0.752	197.0	33.1	2,590	500 D
3 x 50 RM + 35 RM	0.387/0.537	197.0	33.1	2,680	500 D
4 x 50 RM	0.387	197.0	33.1	2,840	500 D
5 x 50 RM	0.387	133.0	36.5	3,450	500 D
1 x 70 RM	0.268	336.0	17.1	850	1,000 D
3 x 70 RM	0.268	250.0	34.0	3,020	500 D
3 x 70 RM + 35 RM	0.268/0.537	250.0	37.3	3,410	500 D
3 x 70 RM + 50 RM	0.268/0.387	250.0	37.3	3,570	500 D
4 x 70 RM	0.268	250.0	37.3	3,750	500 D
5 x 70 RM	0.268	180.0	41.2	4,570	500 D
1 x 95 RM	0.198	415.0	19.4	1,130	1,000 D
3 x 95 RM	0.198	308.0	38.6	3,980	500 D
3 x 95 RM + 50 RM	0.198/0.387	308.0	42.7	4,560	500 D
4 x 95 RM	0.198	3308.0	42.7	4,980	500 D
5 x 95 RM	0.198	215.0	47.2	6,070	500 D
1 x 120 RM	0.157	485.0	21.7	1,430	1,000 D
3 x 120 RM	0.157	359.0	41.9	4,890	500 D
3 x 120 RM + 50 RM	0.157/0.387	359.0	46.4	5,470	500 D
3 x 120 RM + 70 RM	0.157/0.268	359.0	46.4	5,650	500 D
4 x 120 RM	0.157	359.0	46.4	6,130	500 D
5 x 120 RM	0.157	247.0	52.1	7,460	500 D
1 x 150 RM	0.124	557.0	23.4	1,640	500 D
3 x 150 RM	0.124	412.0	46.2	5,740	500 D
3 x 150 RM + 70 RM	0.124/0.268	412.0	52.0	6,640	500 D
4 x 150 RM	0.124	412.0	52.0	7,340	500 D
5 x 150 RM	0.124	279.0	57.0	8,960	500 D
1 x 185 RM	0.102	646.0	24.6	2,060	500 D
3 x 185 RM	0.102	475.0	49.5	6,935	300 D
3 x 185 + 95 RM/RM	0.102/0.198	475.0	54.7	8,040	300 D
4 x 185 RM	0.102	475.0	54.7	8,765	300 D
5 x 185 RM	0.102	279.0	60.8	10,625	300 D
1 x 240 RM	0.078	901.0	26.9	2,680	500 D
3 x 240 RM	0.078	649.0	54.6	9,055	300 D
3 x 240 + 120 RM/RM	0.078/0.157	649.0	60.5	10,150	300 D
4 x 240 RM	0.078	649.0	60.5	11,340	300 D
5 x 240 RM	0.078	466.0	67.2	14,040	300 D

Subject to technical changes.