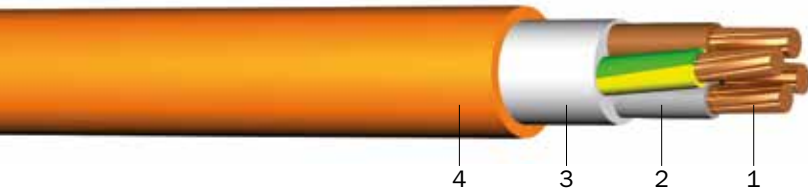


PRAFlaSafe® X B2_{ca}s1d0

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

DESIGN



- 1 | Copper conductor, round solid (RE), round stranded (RM), or sector-shaped stranded (SM)
- 2 | Core insulation (XLPE)
- 3 | Inner covering (halogen-free polymer compound)
- 4 | Sheath (halogen-free polymer compound, orange)

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 not required. The cable releases little heat and smoke under fire. The cable is not UV-resistant.

TECHNICAL DATA



Standard:
TP PRAKAB 02/99



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
classification of the reaction to fire:
EN 13501-6



Certificate:
EZÚ Czech Republic, TSÚS Slovakia

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)
PRAFlaSafe® X					
2 x 1.5 RE	12.531	28.0	9.8	145	1,000 D
3 x 1.5 RE	12.531	24.0	10.2	165	1,000 D
4 x 1.5 RE	12.531	24.0	11.0	190	1,000 D
5 x 1.5 RE	12.531	16.0	11.9	215	1,000 D
7 x 1.5 RE	12.531	15.5	12.9	265	1,000 D
12 x 1.5 RE	12.531	12.5	16.3	395	500 D
19 x 1.5 RE	12.531	10.5	19.0	555	500 D
24 x 1.5 RE	12.531	9.5	22.8	745	500 D
37 x 1.5 RE	12.531	8.5	25.7	1,020	500 D
48 x 1.5 RE	12.531	7.5	29.3	1,280	500 D

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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)
PRAFlaSafe® X					
2 x 2.5 RE	7.520	37.0	10.6	180	1,000 D
3 x 2.5 RE	7.520	32.0	11.1	205	1,000 D
4 x 2.5 RE	7.520	32.0	12.0	240	1,000 D
5 x 2.5 RE	7.520	22.0	13.1	280	1,000 D
7 x 2.5 RE	7.520	20.5	14.1	350	1,000 D
12 x 2.5 RE	7.520	16.5	18.1	535	500 D
19 x 2.5 RE	7.520	14.0	21.6	805	500 D
24 x 2.5 RE	7.520	12.5	25.1	1,010	500 D
37 x 2.5 RE	7.520	11.5	28.7	1,420	500 D
48 x 2.5 RE	7.520	10.0	33.0	1,820	500 D
2 x 4 RE	4.700	49.0	12.5	255	1,000 D
3 x 4 RE	4.700	42.0	13.2	300	1,000 D
4 x 4 RE	4.700	42.0	14.3	350	1,000 D
5 x 4 RE	4.700	28.0	15.4	415	1,000 D
7 x 4 RE	4.700	27.0	16.6	510	1,000 D
12 x 4 RE	4.700	22.0	22.4	850	500 D
1 x 6 RE	3.133	72.0	8.7	135	1,000 D
2 x 6 RE	3.133	62.0	13.5	315	1,000 D
3 x 6 RE	3.133	53.0	14.2	370	1,000 D
4 x 6 RE	3.133	53.0	15.4	445	1,000 D
5 x 6 RE	3.133	36.0	16.7	530	1,000 D
1 x 10 RE	1.880	99.0	9.5	175	1,000 D
2 x 10 RE	1.880	85.0	15.0	420	1,000 D
3 x 10 RE	1.880	74.0	15.8	505	1,000 D
4 x 10 RE	1.880	74.0	17.3	610	1,000 D
5 x 10 RE	1.880	49.0	19.0	740	500 D
1 x 16 RE	1.175	131.0	10.3	235	1,000 D
2 x 16 RE	1.175	113.0	16.8	565	500 D
3 x 16 RE	1.175	98.0	18.0	700	500 D
4 x 16 RE	1.175	98.0	20.3	905	500 D
5 x 16 RE	1.175	65.0	22.2	1,090	500 D
1 x 25 RM	0.752	177.0	12.5	345	1,000 D
3 x 25 RE	0.752	133.0	21.8	1,070	500 D
3 x 25 RM	0.752	133.0	23.8	1,180	500 D
3 x 25 RE + 16 RE	0.752/1.175	133.0	24.0	1,250	500 D
3 x 25 RM + 16 RE	0.752/1.175	133.0	25.9	1,350	500 D
4 x 25 RM	0.752	133.0	25.9	1,440	500 D
5 x 25 RM	0.752	90.0	28.4	1,730	500 D
1 x 35 RM	0.537	217.0	13.5	435	1,000 D
2 x 35 RM	0.537	186.0	24.0	1,190	500 D
3 x 35 RM	0.537	162.0	25.4	1,470	500 D
3 x 35 RM + 16 RE	0.537/1.175	162.0	27.8	1,650	500 D

PRAFlaSafe® X B2_{ca} s1d0

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)
PRAFlaSafe® X					
3 x 35 RM + 25 RM	0.537/0.752	162.0	27.8	1,730	500 D
4 x 35 SM	0.537	162.0	25.1	1,820	500 D
5 x 35 RM	0.537	109.0	30.7	2,200	500 D
1 x 50 RM	0.387	26.0	15.2	585	1,000 D
3 x 50 RM	0.387	197.0	29.8	2,030	500 D
3 x 50 SM + 25 RM	0.387/0.752	197.0	28.1	2,230	500 D
3 x 50 SM + 35 RM	0.387/0.537	197.0	28.1	2,330	500 D
4 x 50 SM	0.387	197.0	28.1	2,490	500 D
5 x 50 SM	0.387	133.0	30.3	3,020	500 D
1 x 70 RM	0.268	336.0	16.8	765	1,000 D
3 x 70 RM	0.268	250.0	32.3	2,720	500 D
3 x 70 SM + 35 RM	0.268/0.537	250.0	32.7	3,080	500 D
3 x 70 SM + 50 RM	0.268/0.387	250.0	32.7	3,250	500 D
4 x 70 SM	0.268	250.0	32.7	3,530	500 D
5 x 70 SM	0.268	180.0	34.9	4,060	500 D
1 x 95 RM	0.198	415.0	19.1	1,010	1,000 D
3 x 95 SM	0.198	308.0	30.8	3,790	500 D
3 x 95 SM + 50 RM	0.198/0.387	308.0	36.6	4,180	500 D
4 x 95 SM	0.198	3308.0	36.6	4,660	500 D
5 x 95 SM	0.198	215.0	39.0	5,480	500 D
1 x 120 RM	0.157	485.0	21.3	1,290	1,000 D
3 x 120 SM	0.157	359.0	33.9	4,650	500 D
3 x 120 SM + 50 SM	0.157/0.387	359.0	40.3	4,970	500 D
3 x 120 SM + 70 RM	0.157/0.268	359.0	40.3	5,170	500 D
4 x 120 SM	0.157	359.0	40.3	5,690	500 D
5 x 120 SM	0.157	247.0	42.6	6,740	500 D
1 x 150 RM	0.124	557.0	22.9	1,480	500 D
3 x 150 SM	0.124	412.0	37.8	5,460	500 D
3 x 150 SM + 70 RM	0.124/0.268	412.0	44.6	6,280	500 D
4 x 150 SM	0.124	412.0	44.6	7,130	500 D
5 x 150 SM	0.124	279.0	47.2	8,400	500 D
1 x 185 RM	0.102	646.0	25.0	1,800	500 D
3 x 185 SM	0.102	475.0	41.9	6,840	500 D
3 x 185 SM + 95 SM	0.102/0.198	475.0	49.6	7,880	500 D
4 x 185 SM	0.102	475.0	49.6	8,830	500 D
5 x 185 SM	0.102	279.0	52.6	10,470	500 D
1 x 240 RM	0.078	901.0	27.5	2,900	500 D
3 x 240 SM	0.078	649.0	46.5	8,660	500 D
3 x 240 SM + 120 SM	0.078/0.157	649.0	55.6	9,990	500 D
4 x 240 SM	0.078	649.0	55.6	11,260	500 D
5 x 240 SM	0.078	466.0	58.4	13,460	500 D

Subject to technical changes.