

1-CSKH-V180

Energy cable with insulation integrity FE180

Standard: TP PRAKAB 01/05

Usage:

The cables are specified for stationary distribution of electrical energy in dry and damp premises. Suitable for hotels, hospitals, underground railways, airports etc. to protect people and technical building equipment in the event of fire where there is no requirement for maintaining the function of the cable in the event of fire.



Construction:

- 1 Copper conductor, round solid (RE)
- 2 Insulation (silicone rubber)
- 3 Sheath (halogen-free polymer compound, brown)



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
shor-circuit temperature: max. +250 °C/5 s



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



Core identification: coloured (HD 308 S2)



Fire properties:

flame retardant (EN 50265-2-1, IEC 60332-1)
halogen-free, no corrosive combustion gases (EN 50267-2-2, IEC 60754-2)
reduced fire propagation (IEC 60332-3 Cat. A, EN 50266-2-2, DIN VDE 0472-804)
minimum smoke emission (EN 50268-2, IEC 61034)
insulation integrity FE180 (IEC 60331, DIN VDE 0472-814)



Test certificate: EZÚ Czech Republic

Number of cores x nominal cross section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air ¹ (A)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/ packing (m)
1-CSKH-V180						
2 x 1.5 RE	12.531	29	9.8	29	130	1000 T
3 x 1.5 RE	12.531	24	10.2	44	145	1000 T
4 x 1.5 RE	12.531	24	11.0	59	170	1000 T
5 x 1.5 RE	12.531	24	11.8	74	200	1000 T
7 x 1.5 RE	12.531	14	12.7	103	240	1000 T
12 x 1.5 RE	12.531	12	16.1	176	360	500 T
19 x 1.5 RE	12.531	11	18.5	279	505	500 T
24 x 1.5 RE	12.531	10	21.5	353	620	500 T
37 x 1.5 RE	12.531	9	24.6	544	885	500 T
48 x 1.5 RE	12.531	8	27.9	706	1,110	500 T
2 x 2.5 RE	7.520	38	10.6	49	165	1000 T
3 x 2.5 RE	7.520	32	11.1	74	190	1000 T
4 x 2.5 RE	7.520	32	11.9	98	225	1000 T
5 x 2.5 RE	7.520	32	12.9	123	265	1000 T

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Number of cores x nominal cross section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the air ¹⁾ (A)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/packing (m)
1-CSKH-V180						
7 x 2.5 RE	7.520	20	13.9	172	320	1000 T
12 x 2.5 RE	7.520	17	17.7	294	495	500 T
19 x 2.5 RE	7.520	16	20.5	466	710	500 T
24 x 2.5 RE	7.520	13	24.1	588	890	500 T
37 x 2.5 RE	7.520	12	27.4	907	1,270	500 T
48 x 2.5 RE	7.520	11	31.6	1176	1,640	500 T
2 x 4 RE	4.700	51	11.6	78	215	1000 T
3 x 4 RE	4.700	42	12.2	118	255	1000 T
4 x 4 RE	4.700	42	13.2	157	305	1000 T
5 x 4 RE	4.700	42	14.3	196	360	1000 T
7 x 4 RE	4.700	28	15.4	274	455	1000 T
12 x 4 RE	4.700	23	19.9	470	710	500 T
1 x 6 RE	3.133	725	7.3	59	105	1000 T
2 x 6 RE	3.133	64	12.6	118	275	1000 T
3 x 6 RE	3.133	53	13.3	176	330	1000 T
4 x 6 RE	3.133	53	14.4	235	400	1000 T
5 x 6 RE	3.133	53	15.6	294	480	1000 T
1 x 10 RE	1.880	99	8.1	98	145	1000 T
2 x 10 RE	1.880	86	14.1	196	375	1000 T
3 x 10 RE	1.880	74	14.9	294	465	1000 T
4 x 10 RE	1.880	74	16.2	392	575	500 T
5 x 10 RE	1.880	74	17.7	490	690	500 T
1 x 16 RE	1.175	131	9.0	157	205	1000 T
2 x 16 RE	1.175	110	15.9	314	520	500 T
3 x 16 RE	1.175	98	16.9	470	660	500 T
4 x 16 RE	1.175	98	18.3	627	820	500 T
5 x 16 RE	1.175	98	20.1	882	995	500 T

1) basic rated current acc. to TP PRAKAB 01/05
Subject to technical changes.