

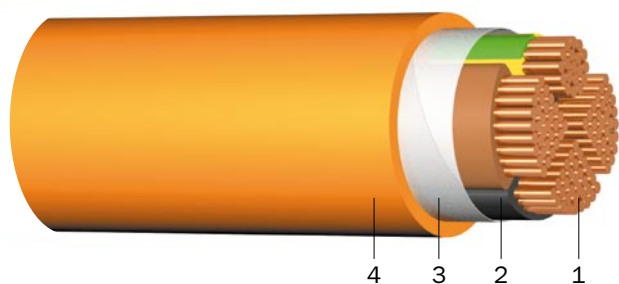
1-CHKH-R, 1-CXKH-R

Energy cable

Standard: TP PRAKAB 02/99 – 5. edition

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), round stranded (RM) resp. sector-shaped stranded (SM)
- 2 Core insulation (halogen-free polymer /1-CHKH-R, XLPE/1-CXKH-R)
- 3 Inner covering (halogen-free tape)
- 4 Sheath (halogen-free polymer compound, orange)



Rated voltage: 0.6/1 kV



Test voltage: 4000 Veff



Temperature range:

laying temperature: min. -5 °C
 operating temperature: -30 °C up to +90 °C
 conductor temperature: max. +90 °C
 short-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)
 minimum smoke emission (EN 50268-2, IEC 61034)



Test certificate: EZÚ Czech Republic, GOST Russia (only 1-CHKH-R)

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-CHKH-R, 1-CXKH-R						
2 x 1.5 RE	12.5310	29	9.8	29	130	1000 T
3 x 1.5 RE	12.5310	24	10.2	44	145	1000 T
4 x 1.5 RE	12.5310	24	11.0	59	170	1000 T
5 x 1.5 RE	12.5310	24	11.8	74	200	1000 T
7 x 1.5 RE	12.5310	14	12.7	103	240	1000 T
12 x 1.5 RE	12.5310	12	16.1	176	360	500 T
19 x 1.5 RE	12.5310	11	18.5	279	505	500 T
24 x 1.5 RE	12.5310	10	21.5	353	620	500 T
37 x 1.5 RE	12.5310	9	24.6	544	885	500 T
48 x 1.5 RE	12.5310	8	27.9	706	1,110	500 T
2 x 2.5 RE	7.5200	38	10.6	49	165	1000 T
3 x 2.5 RE	7.5200	32	11.1	74	190	1000 T
4 x 2.5 RE	7.5200	32	11.9	98	225	1000 T

1-CHKH-R, 1-CXKH-R

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-CHKH-R, 1-CXKH-R						
5 x 2.5 RE	7.5200	32	12.9	123	265	1000 T
7 x 2.5 RE	7.5200	20	13.9	172	320	1000 T
12 x 2.5 RE	7.5200	17	17.7	294	495	500 T
19 x 2.5 RE	7.5200	16	20.5	466	710	500 T
24 x 2.5 RE	7.5200	13	24.1	588	890	500 T
37 x 2.5 RE	7.5200	12	27.4	907	1,270	500 T
48 x 2.5 RE	7.5200	11	31.6	1,176	1,640	500 T
2 x 4 RE	4.7000	51	11.6	78	215	1000 T
3 x 4 RE	4.7000	42	12.2	118	255	1000 T
4 x 4 RE	4.7000	42	13.2	157	305	1000 T
5 x 4 RE	4.7000	42	14.3	196	360	1000 T
7 x 4 RE	4.7000	28	15.4	274	455	1000 T
12 x 4 RE	4.7000	23	19.9	470	710	500 T
1 x 6 RE	3.1330	725	7.3	59	105	1000 T
2 x 6 RE	3.1330	64	12.6	118	275	1000 T
3 x 6 RE	3.1330	53	13.3	176	330	1000 T
4 x 6 RE	3.1330	53	14.4	235	400	1000 T
5 x 6 RE	3.1330	53	15.6	294	480	1000 T
1 x 10 RE	1.8800	99	8.1	98	145	1000 T
2 x 10 RE	1.8800	86	14.1	196	375	1000 T
3 x 10 RE	1.8800	74	14.9	294	465	1000 T
4 x 10 RE	1.8800	74	16.2	392	575	500 T
5 x 10 RE	1.8800	74	17.7	490	690	500 T
1 x 16 RE	1.1750	131	9.0	157	205	1000 T
2 x 16 RE	1.1750	110	15.9	314	520	500 T
3 x 16 RE	1.1750	98	16.9	470	660	500 T
4 x 16 RE	1.1750	98	18.3	627	820	500 T
5 x 16 RE	1.1750	98	20.1	882	995	500 T
1 x 25 RM	0.7520	177	10.8	245	300	1000 T
3 x 25 RE	0.7520	133	19.9	735	955	500 T
3 x 25 RM	0.7520	133	20.8	735	985	500 T
3 x 25 + 16 RE/RE	0.7520/1.1750	133	21.8	892	1,100	500 T
3 x 25 + 16 RM/RE	0.7520/1.1750	133	22.7	892	1,125	500 T
4 x 25 RE	0.7520	133	21.8	980	1,195	500 T
4 x 25 RM	0.7520	133	22.7	980	1,235	500 T
5 x 25 RM	0.7520	133	25.2	1,225	1,520	500 T
1 x 35 RM	0.5370	217	11.8	343	390	1000 T
3 x 35 RM	0.5370	162	22.9	1,029	1,300	500 T
3 x 35 + 16 SM/RE	0.5370/1.1750	162	24.2	1,186	1,350	500 T
3 x 35 + 25 RM/RM	0.5370/0.7520	162	25.3	1,274	1,530	500 T
3 x 35 + 25 SM/RM	0.5370/0.7520	162	24.2	1,274	1,425	500 T
4 x 35 RM	0.5370	162	25.3	1,372	1,650	500 T

1-CHKH-R, 1-CXKH-R

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-CHKH-R, 1-CXKH-R						
4 x 35 SM	0.5370	162	24.2	1,372	1,510	500 T
5 x 35 RM	0.5370	162	27.9	1,715	2,020	500 T
1 x 50 RM	0.3870	265	13.7	490	555	1000 T
3 x 50 RM	0.3870	197	27.2	1,470	1,685	500 T
3 x 50 + 25 SM/RM	0.3870/0.7520	197	27.2	1,715	1,855	500 T
3 x 50 + 35 SM/RM	0.3870/0.5370	197	27.2	1,813	1,940	500 T
4 x 50 SM	0.3870	197	27.2	1,960	2,070	500 T
5 x 50 RM	0.3870	197	33.3	2,450	2,740	500 T
1 x 70 RM	0.2680	336	15.6	686	740	1000 T
3 x 70 RM	0.2680	250	31.7	2,058	2,275	500 T
3 x 70 + 35 SM/RM	0.2680/0.5370	250	31.5	2,401	2,560	500 T
3 x 70 + 50 SM/RM	0.2680/0.3870	250	31.5	2,548	2,705	500 T
4 x 70 RM	0.2680	250	34.5	2,744	2,940	500 T
4 x 70 SM	0.2680	250	31.5	2,744	2,865	500 T
5 x 70 RM	0.2680	250	38.6	3,430	3,690	500 T
1 x 95 RM	0.1980	415	17.3	931	975	1000 T
3 x 95 + 50 SM/RM	0.1980/0.3870	308	35.4	3,283	3,480	500 T
4 x 95 RM	0.1980	308	39.1	3,724	3,960	500 T
4 x 95 SM	0.1980	308	35.4	3,724	3,880	500 T
5 x 95 RM	0.1980	308	43.6	4,655	4,980	500 T
1 x 120 RM	0.1570	485	19.4	1,176	1,225	1000 T
3 x 120 + 50 SM/RM	0.1570/0.3870	359	39.1	4,018	4,135	500 T
3 x 120 + 70 SM/RM	0.1570/0.2680	359	39.1	4,214	4,305	500 T
4 x 120 SM	0.1570	359	39.1	4,704	4,735	500 T
5 x 120 RM	0.1570	359	48.6	5,880	6,120	500 T
1 x 150 RM	0.1240	557	21.0	1,470	1,505	500 T
3 x 150 + 70 SM/RM	0.1240/0.2680	412	43.7	5,096	5,230	500 T
4 x 150 SM	0.1240	412	43.7	5,880	5,935	300 T
5 x 150 RM	0.1240	412	53.3	7,350	7,635	300 T
1 x 185 RM	0.1020	646	23.4	1,813	1,865	500 T
3 x 185 + 95 SM/RM	0.1020/0.1980	475	48.7	6,370	6,560	300 T
4 x 185 SM	0.1020	475	48.7	7,252	7,355	300 T
5 x 185 RM	0.1020	475	60.0	9,065	9,510	300 T
1 x 240 RM	0.0783	774	26.0	2,352	2,410	500 T
3 x 240 + 120 SM/RM	0.0783/0.1570	564	54.9	8,232	8,320	300 T
4 x 240 SM	0.0783	564	54.9	9,408	9,380	300 T
5 x 240 RM	0.0783	564	66.3	11,760	12,230	300 T
1 x 300 RM	0.0601	901	30.6	2,940	3,040	500 T
1 x 500 RM	0.0366	1252	38.5	4,900	5,164	300 T
1 x 630 RM	0.0283	1486	40.7	6,174	6,360	300 T

1) basic rated current acc. to TP PRAKAB 02/99 – 5. edition
Subject to technical changes.