We Make Modern Life Possible.

POWER CABLES AND OVERHEAD LINES 0.6/1 KV

E-YY

PVC/PVC copper energy cables

Power distribution cable for power stations, industrial facilities and switching stations as well as for local power networks. For fixed installation indoors, in cable ducts, outdoors and in water, according to the applicable erection standards, if no risk of any mechanical damage is to be expected.



TECHNICAL DATA

Standard
ÖVE/ONORM E 8200-603 (HD 603)
ÖVE/ÖNORM E 8200-627 (HD627) for multi-core (6-61x)

Certificate
ÖVE Austria

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
EN 60332-1-2: self-extinguishing
CPR classification: Eca

Core identification
HD 308 S2

Temperature range
Laying temperature: min. -5°C
Operating temperature: -50°C up to 70°C
Conductor temperature: max. 70°C
Short circuit temperature: max. 140°C

DESIGN



1. Copper conductor, round solid (RE), round stranded (RM) resp. sector-shaped stranded (SM)
2. Core insulation (PVC)
3. Inner covering (EPDM or plastic tape)
4. Sheath (PVC black, UV-resistant)

Number of cores x nominal cross-section (mm²)	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	32	20	10.0	147
3 x 1.5 RE	12.1	27	20	10.4	167
4 x 1.5 RE	12.1	27	20	11.1	194
5 x 1.5 RE	12.1	19	20	12.0	224
7 x 1.5 RE	12.1	16	13	13.2	291
10 x 1.5 RE	12.1	14	11	16.1	412
12 x 1.5 RE	12.1	12	10	16.5	451
14 x 1.5 RE	12.1	12	10	17.2	499
19 x 1.5 RE	12.1	11	9	18.9	623
24 x 1.5 RE	12.1	10	8	21.8	795
30 x 1.5 RE	12.1	8	7	22.9	918
37 x 1.5 RE	12.1	8	7	25.0	1106
40 x 1.5 RE	12.1	8	7	25.9	1183
44 x 1.5 RE	12.1	7	6	27.9	1332
48 x 1.5 RE	12.1	7	6	28.3	1404
2 x 2.5 RE	7.41	42	27	10.7	182
3 x 2.5 RE	7.41	36	25	11.2	211
4 x 2.5 RE	7.41	36	25	12.1	249
5 x 2.5 RE	7.41	25	25	13.0	289
7 x 2.5 RE	7.41	22	17	14.4	379
10 x 2.5 RE	7.41	18	15	17.6	541
12 x 2.5 RE	7.41	16	13	18.1	599
14 x 2.5 RE	7.41	16	13	18.9	667
19 x 2.5 RE	7.41	15	12	20.8	843
24 x 2.5 RE	7.41	13	11	24.5	1103
30 x 2.5 RE	7.41	11	9	25.8	1283
37 x 2.5 RE	7.41	11	9	27.7	1521
40 x 2.5 RE	7.41	11	9	28.8	1630
48 x 2.5 RE	7.41	9	8	31.4	1941
2 x 4 RE	4.61	54	37	12.4	251
3 x 4 RE	4.61	46	34	13.0	295
4 x 4 RE	4.61	46	34	14.0	351
5 x 4 RE	4.61	32	34	15.2	412
7 x 4 RE	4.61	28	22	16.8	542
10 x 4 RE	4.61	23	19	20.9	784
12 x 4 RE	4.61	21	17	21.5	872
14 x 4 RE	4.61	21	17	22.6	975
19 x 4 RE	4.61	19	16	25.4	1267
24 x 4 RE	4.61	16	14	29.4	1629
30 x 4 RE	4.61	14	14	31.1	1904
37 x 4 RE	4.61	14	14	33.5	2269
2 x 6 RE	3.08	68	48	13.4	312
3 x 6 RE	3.08	58	43	14.1	372
4 x 6 RE	3.08	58	43	15.2	448

Number of cores x nominal cross-section (mm²)	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)
5 x 6 RE	3.08	41	43	16.5	530
7 x 6 RE	3.08	35	28	18.3	701
2 x 10 RE	1.83	90	66	15.4	445
3 x 10 RE	1.83	78	59	16.2	543
4 x 10 RE	1.83	78	59	17.6	662
4 x 10 RM	1.83	78	59	18.1	685
5 x 10 RE	1.83	55	59	19.2	795
5 x 10 RM	1.83	55	59	19.8	822
1 x 16 RE	1.15	107	84	10.1	232
1 x 16 RM	1.15	107	84	10.4	239
3 x 16 RE	1.15	101	78	18.2	754
3 x 16 RM	1.15	101	78	18.7	780
4 x 16 RE	1.15	101	78	19.8	929
4 x 16 RM	1.15	101	78	20.4	960
5 x 16 RE	1.15	71	78	21.7	1125
5 x 16 RM	1.15	71	78	22.3	1161
1 x 25 RM	0.727	138	114	11.9	345
3 x 25 RM	0.727	132	105	22.1	1151
3 x 25 + 16 RM/RE	0.727 / 1.15	132	105	23.2	1308
4 x 25 RM	0.727	132	105	24.5	1450
5 x 25 RM	0.727	132	105	26.9	1757
1 x 35 RM	0.524	164	139	13.0	444
3 x 35 SM	0.524	159	129	24.3	1443
3 x 35 + 16 SM/RE	0.524 / 1.15	159	129	24.7	1514
4 x 35 SM	0.524	159	129	24.3	1639
1 x 50 RM	0.387	195	169	14.6	582
3 x 50 SM	0.387	188	157	25.3	1660
3 x 50 + 25 SM/RM	0.387 / 0.727	188	157	28.1	1948
4 x 50 SM	0.387	188	157	28.1	2173
5 x 50 RM	0.387	188	157	29.4	2673
1 x 70 RM	0.268	238	213	16.4	789
3 x 70 SM	0.268	232	199	28.1	2267
3 x 70 + 35 SM/RM	0.268 / 0.524	232	199	30.9	2642
4 x 70 SM	0.268	232	199	30.9	2969
5 x 70 RM	0.268	232	199	34.8	3720
1 x 95 RM	0.193	286	264	18.5	1060
3 x 95 SM	0.193	280	246	31.5	3069
3 x 95 + 50 SM/RM	0.193 / 0.268	280	246	36.4	3621
4 x 95 SM	0.193	280	246	36.4	4081
5 x 95 RM	0.193	280	246	38.6	5056
1 x 120 RM	0.153	325	307	19.8	1293
3 x 120 SM	0.153	318	285	34.0	3774
3 x 120 + 70 SM/RM	0.153 / 0.268	318	285	39.2	4525
4 x 120 SM	0.153	318	285	39.2	5022

Number of cores x nominal cross-section (mm²)	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)
5 x 120 RM	0.153	318	285	43.3	6235
1 x 150 RM	0.124	365	352	21.7	1578
3 x 150 SM	0.124	359	326	38.0	4665
3 x 150 + 70 SM/RM	0.124 / 0.268	359	326	43.9	5390
4 x 150 SM	0.124	359	326	43.9	6158
5 x 150 SM	0.124	359	326	48.3	7734
1 x 185 RM	0.099	413	406	24.2	1971
3 x 185 SM	0.099	406	374	41.6	5775
3 x 185 + 95 SM/RM	0.099 / 0.193	406	374	49.5	6860
4 x 185 SM	0.099	406	374	49.5	7733
5 x 185 SM	0.099	406	374	54.1	9617
1 x 240 RM	0.075	479	483	27.0	2540
3 x 240 SM	0.075	473	445	47.2	7564
3 x 240 + 120 SM/RM	0.075 / 0.153	473	445	55.1	8803
4 x 240 SM	0.075	473	445	55.1	10002
1 x 300 RM	0.060	539	552	29.6	3142
3 x 300 + 150 SM/RM	0.060 / 0.124	535	510	61.8	11017
1 x 400 RM	0.047	614	646	33.2	3968
1 x 500 RM	0.037	693	747	37.1	5054
1 x 630 RM	0.028	740	840	40.9	6401

Technical changes reserved. All figures are therefore without guarantee.



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