

NY Y

PVC/PVC copper energy cable

DESIGN



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

APPLICATION

The cables are designed for distribution of electrical energy in fixed installation in the ground, cable ducts and in the outdoor environment.

TECHNICAL DATA



Standard:
DIN VDE 0276-603 (HD 603), HD 627



Rated voltage:
0.6/1 kV



Test voltage:
core / core 4 kV / 50 Hz



Temperature range:
 laying temperature: min. -5 °C
 operating temperature: -50 °C up to 70 °C
 conductor temperature: max. 70 °C
 short circuit temperature: max. 160 °C/5 s
 (≤300 mm²)
 max. 140 °C/5 s
 (>300 mm²)



Bending radius (min.):
 15 x Ø of cable (single core)
 12 x Ø of cable (multi core)



Core identification:
 HD 308 S2
 ČSN 33 0166 ed. 2



Fire properties:
 EN 60332-1-2: self-extinguishing
 CPR classification: E_{ca}



Certificate:
 EZÚ Czech Republic
 VDE Germany

Number of cores x nominal cross-section (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the earth (A)	Current rating in the air (A)	Outer diameter (mm) appr.	Total weight (kg/km) appr.	Standard lengths / packing
NY Y						
2 x 1.5 RE	12.1	33	22.0	11.5	160	1000 D
3 x 1.5 RE	12.1	27	19.5	12.0	205	1000 D
4 x 1.5 RE	12.1	27	19.5	12.8	240	1000 D
5 x 1.5 RE	12.1	27	19.5	14.7	280	1000 D
2 x 2.5 RE	7.41	43	30.0	12.3	235	1000 D
3 x 2.5 RE	7.41	36	25.0	12.5	260	1000 D
4 x 2.5 RE	7.41	36	25.0	13.8	310	1000 D
5 x 2.5 RE	7.41	36	25.0	14.8	345	1000 D
2 x 4 RE	4.61	54	37.0	14.1	315	1000 D
3 x 4 RE	4.61	47	34.0	14.5	355	1000 D
4 x 4 RE	4.61	47	34.0	15.8	425	1000 D
5 x 4 RE	4.61	47	34.0	16.2	495	1000 D
2 x 6 RE	3.08	68	48.0	15.1	390	1000 D
3 x 6 RE	3.08	59	43.0	15.5	430	1000 D

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NYY						
4 x 6 RE	3.08	59	43.0	17.1	525	1000 D
5 x 6 RE	3.08	59	43.0	18.5	615	1000 D
1 x 10 RE	1.83	124	81.0	9.7	175	500 D, 1000 D
1 x 10 RM	1.83	124	81.0	10.0	185	500 D, 1000 D
2 x 10 RE	1.83	90	66.0	17.0	550	1000 D
2 x 10 RM	1.83	90	66.0	18.0	575	1000 D
3 x 10 RE	1.83	79	59.0	17.5	600	1000 D
3 x 10 RM	1.83	79	59.0	18.2	650	1000 D
4 x 10 RE	1.83	79	59.0	19.0	740	1000 D
4 x 10 RM	1.83	79	59.0	19.0	790	1000 D
5 x 10 RE	1.83	79	59.0	20.5	885	1000 D
5 x 10 RM	1.83	79	59.0	21.5	940	1000 D
1 x 16 RE	1.15	160	107.0	10.6	230	500 D, 1000 D
1 x 16 RM	1.15	160	107.0	10.9	245	500 D, 1000 D
3 x 16 RE	1.15	102	79.0	19.0	810	1000 D
3 x 16 RM	1.15	102	79.0	21.4	940	1000 D
4 x 16 RE	1.15	102	79.0	22.0	1040	1000 D
4 x 16 RM	1.15	102	79.0	23.0	1060	1000 D
5 x 16 RE	1.15	102	79.0	24.5	1230	1000 D
5 x 16 RM	1.15	102	79.0	24.8	1310	1000 D
1 x 25 RM	0.727	208	144.0	12.6	350	500 D, 1000 D
2 x 25 RM	0.727	151	120.0	23.1	1100	1000 D
3 x 25 RM	0.727	133	106.0	24.5	1330	1000 D
3 x 25 + 16 RM/RE	0.727 /1.15	133	106.0	26.7	1400	1000 D
4 x 25 RM	0.727	133	106.0	26.7	1550	1000 D
5 x 25 RM	0.727	133	106.0	29.9	1920	1000 D
1 x 35 RM	0.524	250	176.0	13.8	455	500 D, 1000 D
4 x 35 RM	0.524	159	129.0	29.6	2010	1000 D
4 x 35 SM	0.524	159	129.0	27.6	1900	1000 D
5 x 35 RM	0.524	159	129.0	33.1	2610	1000 D
1 x 50 RM	0.387	296	214.0	15.4	595	500 D, 1000 D
3 x 50 + 25 SM/RM	0.387 /0.727	188	157.0	34.4	2330	1000 D
4 x 50 SM	0.387	188	157.0	34.4	2450	1000 D
1 x 70 RM	0.268	365	270.0	17.0	800	500 D, 1000 D
3 x 70 + 35 SM/SM	0.268 /0.524	232	199.0	43.0	3060	500 D
4 x 70 SM	0.268	232	199.0	43.0	3290	500 D
1 x 95 RM	0.193	438	334.0	19.1	1100	500 D, 1000 D
3 x 95 + 50 SM/SM	0.193 /0.387	280	246.0	42.8	4160	500 D
4 x 95 SM	0.193	280	246.0	46.6	4550	500 D
1 x 120 RM	0.153	501	389.0	20.6	1350	500 D, 1000 D
3 x 120 + 70 SM/SM	0.153 /0.268	318	285.0	46.6	5150	500 D

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NY Y						
4 x 120 SM	0.153	318	285.0	46.6	5570	500 D
1 x 150 RM	0.124	563	446.0	22.2	1610	500 D, 1000 D
3 x 150 + 70 SM/SM	0.124 / 0.268	359	326.0	50.4	6090	500 D
4 x 150 SM	0.124	359	326.0	50.4	6720	500 D
1 x 185 RM	0.0991	639	516.0	24.6	2060	500 D, 1000 D
3 x 185 + 95 SM/SM	0.0991/0.193	406	374.0	54.4	7460	500 D
4 x 185 SM	0.0991	406	374.0	57.0	8560	500 D
1 x 240 RM	0.0754	746	618.0	27.6	2590	500 D, 1000 D
3 x 240 + 120 SM/SM	0.0754/0.153	473	445.0	60.8	9900	500 D
4 x 240 SM	0.0754	473	445.0	63.2	11140	500 D
1 x 300 RM	0.0601	848	717.0	30.5	3260	500 D, 1000 D
3 x 300 + 150 SM/RM	0.0601/0.124	535	511.0	66.3	11980	500 D
1 x 400 RM	0.047	975	843.0	34.3	4210	500 D, 1000 D
1 x 500 RM	0.0366	1125	994.0	37.7	5210	500 D, 1000 D

Technical changes reserved. All figures are therefore without guarantee.