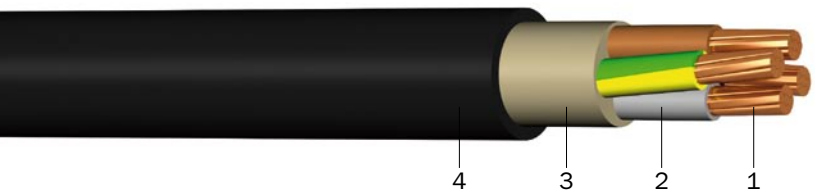
NYY

Underground cable with PVC insulation and PVC sheath

DESIGN



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

APPLICATION

Power distribution cables in power stations, industrial installations and switchgears, as well as in local mains. For fixed installation underground, in interior premises, cable ducts, in the open air, in water – as permitted by the local building regulations – if no risk of any mechanical damage is to be expected.

TECHNICAL DATA

Standard:
DIN VDE 0276-603 (HD 603)

Rated voltage:
0.6/1 kV

Test voltage:
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

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

Core identification:
HD 308 S2

Fire properties:
flame retardant:
EN 60332-1-2

Certificate:
EZÚ Czech Republic, VDE Germany

Number of cores x nominal cross section (mm^2)	Max. conductor resistance (Ω/km)	Current rating in the ground[1)] (A)	Current rating in the air[1)] (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/ packing (m)
NYY						
2 x 1.5 RE	12.100	30	21	11.5	160	1,000 D
3 x 1.5 RE	12.100	27	19	12.0	205	1,000 D
4 x 1.5 RE	12.100	27	19	12.8	240	1,000 D
5 x 1.5 RE	12.100	27	19	14.7	280	1,000 D
2 x 2.5 RE	7.410	39	28	12.3	235	1,000 D
3 x 2.5 RE	7.410	36	25	12.5	260	1,000 D
4 x 2.5 RE	7.410	36	25	13.8	310	1,000 D
5 x 2.5 RE	7.410	36	25	14.8	345	1,000 D
2 x 4 RE	4.610	50	37	14.1	315	1,000 D
3 x 4 RE	4.610	47	34	14.5	355	1,000 D
4 x 4 RE	4.610	47	34	15.8	425	1,000 D
5 x 4 RE	4.610	47	34	16.2	495	1,000 D
2 x 6 RE	3.080	62	47	15.1	390	1,000 D
3 x 6 RE	3.080	59	43	15.5	430	1,000 D
4 x 6 RE	3.080	59	43	17.1	525	1,000 D
5 x 6 RE	3.080	59	43	18.5	615	1,000 D

PRAKAB PRAŽSKÁ KABELOVNA

NYY

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NYY						
1 x 10 RE	1.830	83	64	9.7	175	500 D, 1,000 D
1 x 10 RM	1.830	83	64	10.0	185	500 D, 1,000 D
2 x 10 RE	1.830	83	64	17.0	550	1,000 D
2 x 10 RM	1.830	83	64	18.0	575	1,000 D
3 x 10 RE	1.830	79	59	17.5	600	1,000 D
3 x 10 RM	1.830	79	59	18.2	650	1,000 D
3 x 10 + 1.5 RM/RE	1.830/12.100	79	59	18.2	665	1,000 D
4 x 10 RE	1.830	79	59	19.0	740	1,000 D
4 x 10 RM	1.830	79	59	20.5	790	1,000 D
5 x 10 RE	1.830	79	59	20.6	885	1,000 D
5 x 10 RM	1.830	79	59	21.5	940	1,000 D
5 x 10 + 1.5 RM/RE	1.830/12.100	79	59	21.5	955	1,000 D
1 x 16 RE	1.150	107	84	10.6	230	500 D, 1,000 D
1 x 16 RM	1.150	107	84	10.9	245	500 D, 1,000 D
3 x 16 RE	1.150	107	84	19.0	810	1,000 D
3 x 16 RM	1.150	107	84	21.4	940	1,000 D
3 x 16 + 1.5 RM/RE	1.150/12.100	102	79	21.4	960	1,000 D
4 x 16 RE	1.150	102	79	22.0	1,040	1,000 D
4 x 16 RM	1.150	102	79	23.0	1,060	1,000 D
5 x 16 RE	1.150	102	79	24.5	1,230	1,000 D
5 x 16 RM	1.150	102	79	24.8	1,310	1,000 D
5 x 16 + 1.5 RM/RE	1.150/12.100	102	79	24.8	1,330	1,000 D
1 x 25 RM	0.727	138	114	12.6	350	500 D, 1,000 D
2 x 25 RM	0.727	138	114	23.1	1,100	1,000 D
3 x 25 RM	0.727	133	106	24.5	1,330	1,000 D
3 x 25 + 16 RM/RE	0.727/1.150	133	106	26.7	1,400	1,000 D
3 x 25 + 16 RM/RM	0.727/1.150	133	106	26.7	1,410	1,000 D
4 x 25 RM	0.727	133	106	26.7	1,550	1,000 D
5 x 25 RM	0.727	133	106	29.9	1,920	1,000 D
1 x 35 RM	0.524	164	139	13.8	455	500 D, 1,000 D
4 x 35 RM	0.524	159	129	29.6	2,010	1,000 D
4 x 35 SM	0.524	159	129	27.6	1,900	1,000 D
5 x 35 RM	0.524	159	129	33.1	2,610	1,000 D
1 x 50 RM	0.387	195	169	15.4	595	500 D, 1,000 D
3 x 50 + 25 SM/RM	0.387/0.727	188	157	34.4	2,330	1,000 D
4 x 50 SM	0.387	188	157	34.4	2,450	1,000 D
1 x 70 RM	0.268	238	213	17.0	800	500 D, 1,000 D
3 x 70 + 35 SM/SM	0.268/0.524	232	199	43.0	3,060	500 D
4 x 70 SM	0.268	232	199	43.0	3,290	500 D
1 x 95 RM	0.193	286	264	19.1	1,100	500 D, 1,000 D
3 x 95 + 50 SM/SM	0.193/0.387	280	246	42.8	4,160	500 D
4 x 95 SM	0.193	280	246	46.6	4,550	500 D

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NYY						
1 x 120 RM	0.153	325	307	20.6	1,350	500 D, 1,000 D
3 x 120 + 70 SM/SM	0.153/0.268	318	285	46.6	5,150	500 D
4 x 120 SM	0.153	318	285	46.6	5,570	500 D
1 x 150 RM	0.124	365	352	22.2	1,610	500 D, 1,000 D
3 x 150 + 70 SM/SM	0.124/0.268	359	326	50.4	6,090	500 D
4 x 150 SM	0.124	359	326	50.4	6,720	500 D
1 x 185 RM	0.099	413	406	24.6	2,060	500 D, 1,000 D
3 x 185 + 95 SM/SM	0.099/0.193	406	374	54.4	7,460	500 D
4 x 185 SM	0.099	406	374	57.0	8,560	500 D
1 x 240 RM	0.075	479	483	27.6	2,590	500 D, 1,000 D
3 x 240 + 120 SM/SM	0.075/0.153	473	445	60.8	9,900	500 D
4 x 240 SM	0.075	473	445	63.2	11,140	500 D
1 x 300 RM	0.060	541	557	30.5	3,260	500 D, 1,000 D
1 x 400 RM	0.047	614	646	34.3	4,210	500 D, 1,000 D
1 x 500 RM	0.037	693	747	37.7	5,210	500 D, 1,000 D

1) basic rated current acc. to DIN VDE 0276-603 (HD 603)
Subject to technical changes.