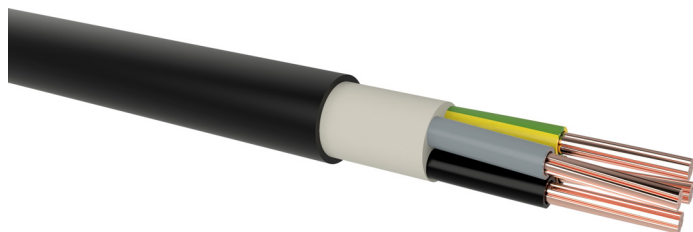


NYY-J or -O

PVC/PVC underground cable

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 foil)
- 4 | 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
DIN VDE 0276-627



Rated voltage:
0.6/1 kV (U₀/U)



Test voltage:
4 kV / 50 Hz



Temperature range:
laying temperature: min. -5 °C
operating temperature: -20 °C up to 70 °C
conductor temperature: max. 70 °C
short circuit temperature: max. 160 °C/5 s
(≤300 mm²)
resp. 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



Fire properties:
EN 60332-1-2: flame retardant
CPR classification: E_{ca}



Certificate:
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 (m)
NYY-J or -O						
1 x 4 RE	4.61	71	47	9.1	110	500 D, 1000 D
1 x 6 RE	3.08	90	59	9.5	130	500 D, 1000 D
1 x 10 RE	1.83	83	64	9.7	175	500 D, 1000 D
1 x 10 RM	1.83	83	64	10.0	185	500 D, 1000 D
1 x 16 RE	1.15	160	107	10.6	230	500 D, 1000 D
1 x 16 RM	1.15	160	107	10.9	245	500 D, 1000 D
1 x 25 RM	0.727	208	144	12.6	350	500 D, 1000 D
1 x 35 RM	0.524	250	176	13.8	455	500 D, 1000 D
1 x 50 RM	0.387	296	214	15.4	595	500 D, 1000 D
1 x 70 RM	0.268	365	270	17.0	800	500 D, 1000 D
1 x 95 RM	0.193	286	264	19.1	1100	500 D, 1000 D
1 x 120 RM	0.153	501	389	20.6	1350	500 D, 1000 D
1 x 150 RM	0.124	365	352	22.2	1610	500 D, 1000 D

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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 (m)
NYJ-J or -O						
1 x 185 RM	0.0991	413	406	24.6	2060	500 D, 1000 D
1 x 240 RM	0.0754	746	618	27.6	2590	500 D, 1000 D
1 x 300 RM	0.0601	845	711	30.5	3260	500 D, 1000 D
1 x 400 RM	0.047	614	646	34.3	4210	500 D, 1000 D
1 x 500 RM	0.0366	1145	1180	37.7	5210	500 D, 1000 D
1 x 630 RM	0.0283	777	858	42.5	6650	500 D, 1000 D
2 x 1.5 RE	12.1	32	20	11.5	160	1000 D
2 x 2.5 RE	7.41	42	27	12.3	235	1000 D
2 x 4 RE	4.61	50	37	14.1	315	1000 D
2 x 6 RE	3.08	62	47	15.1	390	1000 D
2 x 10 RE	1.83	94	69	17.4	550	1000 D
2 x 16 RE	1.15	103	79	19.0	660	1000 D
2 x 25 RM	0.727	151	120	23.1	1100	1000 D
2 x 35 RM	0.524	133	106	25.6	1285	500 D, 1000 D
3 x 1.5 RE	12.1	27	19.5	12.1	215	1000 D
3 x 2.5 RE	7.41	36	25	12.9	265	1000 D
3 x 4 RE	4.61	46	34	14.5	355	1000 D
3 x 6 RE	3.08	59	43	15.5	430	1000 D
3 x 10 RE	1.83	79	59	17.5	600	1000 D
3 x 10 RM	1.83	79	59	18.2	650	1000 D
3 x 16 RE	1.15	101	78	19.0	810	1000 D
3 x 16 RM	1.15	101	78	21.4	940	1000 D
3 x 25 RM	0.727	132	105	24.5	1330	1000 D
3 x 35 SM	0.524	159	129	22.5	1231	1000 D
3 x 50 SM	0.387	188	157	25.6	1800	500 D, 1000 D
3 x 70 SM	0.268	232	199	29.5	2500	1000 D
3 x 120 SM	0.153	318	285	35.8	4000	500 D, 1000 D
3 x 25 + 16 RM/ RE	0.727/1.15	132	105	26.6	1400	1000 D
3 x 25 + 16 RM/ RM	0.727/1.15	132	105	26.7	1410	1000 D
3 x 35 + 16 SM/ RE	0.524/1.15	159	129	24.5	1700	1000 D
3 x 50 + 25 SM/ RM	0.387/0.727	188	157	30.7	2330	1000 D
3 x 50 + 25 SM/ SM	0.387/0.727	188	157	28.7	2300	1000 D
3 x 70 + 35 SM/ SM	0.268/0.524	232	199	31.7	2800	1000 D
3 x 95 + 50 SM/ SM	0.193/0.387	280	246	39.1	3840	500 D
3 x 120 + 70 SM/SM	0.153/0.268	318	285	43.0	5150	500 D

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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 (m)
NYY-J or -O						
3 x 150 + 70 SM/SM	0.124/0.268	359	326	50.4	6090	500 D
3 x 185 + 95 SM/SM	0.0991/0.193	406	374	50.0	7400	500 D
3 x 240 + 120 SM/SM	0.0754/0.153	473	445	57.0	9600	500 D
3 x 300 + 150 SM/SM	0.0601	535	510	64.0	11200	300 D
4 x 1.5 RE	12.1	27	19.5	13.0	250	1000 D
4 x 2.5 RE	7.41	36	25	14.0	310	1000 D
4 x 4 RE	4.61	47	34	15.8	425	1000 D
4 x 6 RE	3.08	59	43	17.2	520	1000 D
4 x 10 RE	1.83	79	59	19.0	740	1000 D
4 x 10 RM	1.83	79	59	19.0	790	1000 D
4 x 16 RE	1.15	102	79	22.0	1040	1000 D
4 x 16 RM	1.15	101	78	23.0	1060	1000 D
4 x 25 RM	0.727	132	105	26.7	1550	1000 D
4 x 35 RM	0.524	159	129	29.6	2010	1000 D
4 x 35 SM	0.524	159	129	27.6	1900	1000 D
4 x 50 SM	0.387	188	157	34.4	2450	500 D, 1000 D
4 x 70 SM	0.268	232	199	34.5	3240	500 D
4 x 95 SM	0.193	280	246	39.2	4285	1000 D
4 x 120 SM	0.153	318	285	41.7	5330	500 D, 1000 D
4 x 150 SM	0.124	359	326	50.4	6720	500 D
4 x 185 SM	0.0991	406	374	57.0	8560	500 D
4 x 240 SM	0.0754	473	445	61.0	10760	500 D, 1000 D
4 x 300 SM	0.0601	535	511	62.4	13127	500 D, 1000 D
5 x 1.5 RE	12.1	19	14.5	13.8	290	1000 D
5 x 2.5 RE	7.41	36	25	14.9	355	1000 D
5 x 4 RE	4.61	32	25.5	17.0	500	1000 D
5 x 6 RE	3.08	59	43	18.5	615	1000 D
5 x 10 RE	1.83	79	59	20.6	848	1000 D
5 x 10 RM	1.83	79	59	21.5	940	1000 D
5 x 16 RE	1.15	71	59	21.8	1195	1000 D
5 x 16 RM	1.15	71	59	22.6	1236	1000 D
5 x 25 RM	0.727	92	73	29.2	2000	1000 D
5 x 35 RM	0.524	159	129	32.3	2590	1000 D
5 x 50 RM	0.387	188	157	36.9	3390	500 D, 1000 D
5 x 50 SM	0.387	188	157	33.1	3049	500 D, 1000 D
5 x 70 RM	0.268	232	199	39.0	4542	500 D
5 x 95 RM	0.193	280	246	44.3	5980	500 D
5 x 95 SM	0.193	280	246	44.9	5589	500 D

NYY-J or -O

PVC/PVC underground cable

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 (m)
NYY-J or -O						
5 x 120 RM	0.153	318	285	51.3	7483	500 D, 1000 D
5 x 120 SM	0.153	318	285	48.5	7483	500 D, 1000 D
5 x 150 RM	0.124	359	326	58.5	8361	500 D, 1000 D
7 x 1.5 RE	12.1	27	19	16.0	300	500 D, 1000 D
7 x 2.5 RE	7.41	36	25	17.0	420	1000 D
7 x 4 RE	4.61	47	34	19.0	630	500 D, 1000 D
7 x 6 RE	3.08	59	43	21.0	840	500 D
7 x 10 RE	1.83	79	59	23.0	1150	1000 D
10 x 2.5 RE	1.2	36	25	20.0	500	500 D, 1000 D
12 x 2.5 RE	7.41	36	25	21.0	560	1000 D
14 x 1.5 RE	7.41	27	19	20.0	450	500 D, 1000 D
14 x 2.5 RE	7.41	36	25	21.0	630	1000 D
19 x 1.5 RE	12.1	27	19	22.0	560	1000 D
21 x 1.5 RE	12.1	27	19	23.0	620	500 D, 1000 D
24 x 1.5 RE	12.1	27	19	25.0	700	1000 D
24 x 2.5 RE	7.41	36	25	27.0	1050	1000 D
30 x 1.5 RE	12.1	27	19.5	26.0	810	1000 D
30 x 2.5 RE	7.41	36	25	28.0	1250	500 D, 1000 D
40 x 1.5 RE	12.1	8	6.5	29.2	1410	1000 D
40 x 2.5 RE	7.41	10.5	8.5	32.2	1894	500 D, 1000 D
52 x 1.5 RE	12.1	27	19	32.0	1400	1000 D
52 x 2.5 RE	7.41	36	25	35.0	2150	1000 D

Technical changes reserved. All figures are therefore without guarantee.

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