

NAYY

Underground cable with PVC insulation and PVC sheath

DESIGN



- 1 | Aluminium conductor, round solid (RE), sector-shaped solid (SE), round stranded (RM), resp. sector-shaped stranded (SM)
- 2 | Core insulation (PVC)
- 3 | Inner covering (EPDM)
- 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 (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 Ø of cable (single core)
 12 x Ø 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)
NAYY						
1 x 25 RM	1.200	160	110	12.6	210	500 D, 1,000 D
4 x 25 RE	1.200	102	82	25.5	990	1,000 D
4 x 25 RM	1.200	102	82	26.7	1,040	1,000 D
1 x 35 RM	0.868	193	135	13.6	260	500 D, 1,000 D
4 x 35 RE	0.868	123	100	27.8	1,130	1,000 D
4 x 35 RM	0.868	123	100	29.3	1,180	1,000 D
1 x 50 RM	0.641	230	166	15.3	335	500 D, 1,000 D
4 x 50 SE	0.641	144	119	31.9	1,300	1,000 D
4 x 50 SM	0.641	144	119	34.4	1,360	1,000 D
1 x 70 RM	0.443	283	210	16.9	425	500 D, 1,000 D
4 x 70 SE	0.443	179	152	36.1	1,740	1,000 D
4 x 70 SM	0.443	179	152	38.0	1,820	1,000 D
1 x 95 RM	0.320	340	259	19.1	540	500 D, 1,000 D
4 x 95 SE	0.320	215	186	40.3	2,240	1,000 D

NAYY

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)
NAYY						
4 x 95 SM	0.320	215	186	43.0	2,340	1,000 D
1 x 120 RM	0.253	389	302	20.6	610	500 D, 1,000 D
4 x 120 SE	0.253	245	216	43.5	2,660	1,000 D
4 x 120 SM	0.253	245	216	46.6	2,780	1,000 D
1 x 150 RM	0.206	436	345	22.3	745	500 D, 1,000 D
4 x 150 SE	0.206	275	246	47.7	3,120	500 D
4 x 150 SM	0.206	275	246	50.4	3,260	500 D
1 x 185 RM	0.164	496	401	24.6	925	500 D, 1,000 D
4 x 185 SE	0.164	313	285	52.7	4,170	500 D
4 x 185 SM	0.164	313	285	57.0	4,360	500 D
1 x 240 RM	0.125	578	479	27.5	1,210	500 D, 1,000 D
4 x 240 SE	0.125	364	338	58.2	5,150	500 D
4 x 240 SM	0.125	364	338	63.2	5,380	500 D
1 x 300 RM	0.100	656	555	30.6	1,440	500 D, 1,000 D
1 x 400 RM	0.078	756	653	33.2	1,850	500 D, 1,000 D
1 x 500 RM	0.061	873	772	37.7	2,190	500 D, 1,000 D
1 x 630 RMn *	0.047	1,011	915	43.5	2,700	500 D, 1,000 D

* conductor is non-compressed

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

Subject to technical changes.