



NAYY (SE)

Underground cable with PVC insulation and PVC sheath



Aluminium power cables for voltage up to 1kV

ttkabeli



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.



CONSTRUCTION

- Aluminum conductor, round solid (RE), sector-shaped solid (SE)
- Core insulation (PVC)
- Inner covering (EPDM)
- Sheath (PVC black, UV resistant)



TEHNICAL DATA

Standard: DIN VDE 0276-603 (HD 603)
Rated voltage: 0.6 / 1kV
Test voltage: 4 kV / 50 Hz

Temperature range

Laying temperature: min. -5 °C
 Operating temperature: -50 °C 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: Coloured (HD 308 S2)

Fire properties

Flame retardant: EN 50265-2-1, IEC 60332-1





CONSTRUCTION DATA OF POWER CABLES / NAYY (SE)

Number of cores x nominal cross section	Max. conductor resistance	Current rating in the ground ¹	Current rating in the air ¹	Outer diameter	Total weight (kg/km) ca.	Standard lengths / packig
(mm ²)	(Ω / km)	(A)	(A)	(mm)	(kg/km)	(m)
4 x 25 RE	1.200	102	82	25.5	990	1000 D
4 x 35 RE	0.868	123	100	27.8	1130	1000 D
4 x 50 SE	0.641	144	119	31.9	1300	1000 D
4 x 70 SE	0.443	179	152	36.1	1740	1000 D
4 x 95 SE	0.320	215	186	40.3	2240	1000 D
4 x 120 SE	0.253	245	216	43.5	2660	1000 D
4 x 150 SE	0.206	275	246	47.7	3120	500 D
4 x 185 SE	0.164	313	285	52.7	4170	500 D
4 x 240 SE	0.125	364	338	58.2	5150	500



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