

NAYCWY

Underground cable with PVC insulation and PVC sheath, screened

DESIGN



- 1 | Aluminium conductor, round stranded (RM), resp. sector-shaped stranded (SM)
- 2 | Core insulation (PVC)
- 3 | Inner covering (EPDM)
- 4 | Concentric screen (bare copper wires applied with changing direction of lay) and counter helix (copper tape)
- 5 | 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 and in water – as permitted by the local building regulations – if protection against shock hazard in the event of mechanical damage or electrical screening is required. The concentric center conductor can be used as PE or PEN conductor and needs not be cut when assembling branch joints.

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:
VDE Germany

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Number of cores x nominal cross section/cross section of screen (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)
NAYCWY						
4 x 35 SM/16	0.868	123	101	30.5	1,270	1,000 D
1 x 50 RM/16	0.641	230	166	19.5	620	1,000 D
4 x 50 SM/25	0.641	145	121	35.0	1,700	1,000 D
4 x 70 SM/35	0.443	180	155	38.5	2,170	1,000 D
4 x 95 SM/50	0.320	216	189	44.4	2,790	1,000 D
1 x 120 RM/35	0.253	389	302	25.0	1,070	1,000 D
4 x 120 SM/70	0.253	246	220	49.0	3,870	1,000 D
1 x 150 RM/35	0.206	436	345	26.5	1,230	1,000 D
4 x 150 SM/70	0.206	276	249	53.0	4,030	1,000 D
1 x 185 RM/35	0.164	496	401	29.0	1,410	1,000 D
4 x 185 SM/95	0.164	313	287	59.0	5,050	1,000 D
1 x 240 RM/35	0.125	578	475	32.0	1,680	1,000 D
4 x 240 SM/120	0.125	362	339	66.5	6,200	1,000 D

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