

NAYCWY

PVC/PVC aluminium energy cables, screened

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 | 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. The concentric ceander 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 603.3G)



Rated voltage:
0.6/1 kV



Test voltage:
core / core 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:
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
NAYCWY						
4 x 16 RE/16	1.91	103	83	24.7	843	1000 D
4 x 25 RE/16	1.2	103	83	28.4	1115	1000 D
4 x 35 SM/16	0.868	123	101	29.5	1201	1000 D
4 x 35 RE/16	0.868	123	101	30.9	1335	1000 D
3 x 50 SM/25	0.641	145	121	30.4	1275	1000 D
4 x 50 SM/25	0.641	145	121	34.1	1616	1000 D
4 x 50 SE/25	0.641	145	121	32.4	1550	1000 D
3 x 70 SM/35	0.443	180	155	33.7	1641	1000 D
4 x 70 SM/35	0.443	180	155	37.4	2065	1000 D
4 x 70 SE/35	0.443	180	155	36.0	1978	1000 D
3 x 95 SM/50	0.32	216	189	39.0	2194	1000 D
4 x 95 SM/50	0.32	216	189	43.8	2702	1000 D
4 x 95 SE/50	0.32	216	189	41.6	2626	1000 D
3 x 120 SM/70	0.253	246	220	41.6	2608	1000 D
4 x 120 SM/70	0.253	246	220	47.7	3333	1000 D

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4 x 120 SE/70	0.253	246	220	44.7	3136	1000 D
3 x 150 SM/70	0.206	276	249	45.7	3069	1000 D
4 x 150 SM/70	0.206	276	249	52.6	3903	1000 D
4 x 150 SE/70	0.206	276	249	49.1	3721	1000 D
3 x 185 SM/95	0.164	313	287	50.1	3838	1000 D
4 x 185 SM/95	0.164	313	287	58.5	4916	1000 D
3 x 240 SM/120	0.125	362	339	55.4	4785	1000 D
4 x 240 SM/120	0.125	362	339	64.4	6116	1000 D
4 x 240 SE/120	0.125	362	339	59.9	5850	1000 D

Technical changes reserved. All figures are therefore without guarantee.