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POWER CABLES AND OVERHEAD LINES 0.6/1 kV

NAYCWY

PVC/PVC aluminium energy cables, screened



TECHNICAL DATA



Standard
DIN VDE 0276-603 (HD 603)



Rated Voltage
0.6/1 kV



Test Voltage
4 kV / 50 Hz



Bending radius (min.)
12 x $\varnothing$ of cable (multicore)
15 x $\varnothing$ of cable (singlecore)



Core identification
HD 308 S2



Fire properties
EN 60332-1-2: flame retardant and self-extinguishing
CPR Classification: Eca

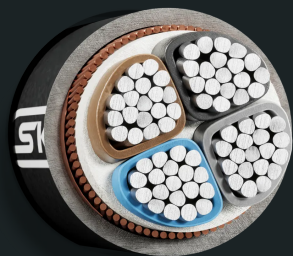


Certificate
VDE Germany



Temperature range
Laying temperature: min. -5°C
Operating temperature: -50°C up to 70°C
Conductor temperature: max. 70°C
Short circuit temperature: max. 70°C

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)

Number of cores x nominal cross-section / cross-section of screen (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the earth (A)	Current rating in the air (A)	Outer diameter appr. (mm)	Total weight appr. (kg/km)
4 x 16 RE / 16	1.91	81	61	25.1	855
3 x 25 RE / 25	1.2	103	91	26.7	1034
4 x 25 RE / 16	1.2	103	91	28.8	1120
4 x 25 RM / 16	1.2	103	91	29.9	1190
3 x 35 RE / 35	0.868	123	112	28.8	1255
4 x 35 RE / 16	0.868	123	112	31.3	1340
1 x 50 RM / 16	0.641	230	166	20.3	569
3 x 50 SM / 25	0.641	145	137	30.8	1280
3 x 50 SM / 50	0.641	145	137	32.1	1446
4 x 50 SM / 25	0.641	145	137	34.5	1620
4 x 50 SE / 25	0.641	145	137	32.8	1555
4 x 50 RE / 25	0.641	145	137	35.7	1810
3 x 70 SM / 35	0.443	180	173	34.1	1647
3 x 70 SM / 70	0.443	180	173	35.2	1842
3 x 70 SE / 70	0.443	180	173	33.7	1820
4 x 70 SM / 35	0.443	180	173	37.8	2071
4 x 70 SE / 35	0.443	180	173	36.4	1983
3 x 95 SM / 50	0.32	223	212	39.4	2200
3 x 95 SM / 95	0.32	223	212	39.4	2444
4 x 95 SM / 50	0.32	223	212	44.2	2707
4 x 95 SE / 50	0.32	223	212	42.0	2631
1 x 120 RM / 35	0.253	389	302	25.4	1006
3 x 120 SM / 50	0.253	252	247	42.0	2508
3 x 120 SM / 120	0.253	252	247	42.3	2938
3 x 120 SM / 70	0.253	252	247	42.0	2614
4 x 120 SM / 70	0.253	252	247	48.1	3338
4 x 120 SE / 70	0.253	252	247	45.1	3141
1 x 150 RM / 35	0.206	436	345	27.2	1140
3 x 150 SM / 70	0.206	280	280	46.1	3075
3 x 150 SM / 150	0.206	280	280	46.9	3587
3 x 150 SE / 150	0.206	280	280	44.5	3510
4 x 150 SM / 70	0.206	280	280	53.0	3908
4 x 150 SE / 70	0.206	280	280	49.5	3726
1 x 185 RM / 35	0.164	496	401	29.3	1314
3 x 185 SM / 70	0.164	314	321	50.5	3690
3 x 185 SM / 185	0.164	314	321	51.6	4447
3 x 185 SM / 95	0.164	314	321	50.5	3844
4 x 185 SE / 95	0.164	314	321	54.8	4755
4 x 185 SM / 95	0.164	314	321	58.9	4921
1 x 240 RM / 35	0.125	578	479	32.3	1578
3 x 240 SM / 70	0.125	358	374	55.8	4497
3 x 240 SM / 120	0.125	358	374	55.8	4792
3 x 240 SE / 120	0.125	358	374	52.9	4670
3 x 240 SM / 240	0.125	358	374	57.3	5615



Number of cores x nominal cross-section / cross-section of screen (mm ²)	Max. conductor resistance (Ω/km)	Current rating in the earth (A)	Current rating in the air (A)	Outer diameter appr. (mm)	Total weight appr. (kg/km)
3 x 240 SE / 240	0.125	358	374	54.4	5495
4 x 240 SM / 120	0.125	358	374	64.8	6122
4 x 240 SE / 120	0.125	358	374	60.3	5856

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