We Make Modern Life Possible.

POWER CABLES AND OVERHEAD LINES 0.6/1 KV

# NAYCWY

## PVC/PVC aluminium energy cables, screened

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)

**Certificate**
VDE Germany

**Test Voltage**
4 kV / 50 Hz

**Rated Voltage**
0.6/1 kV

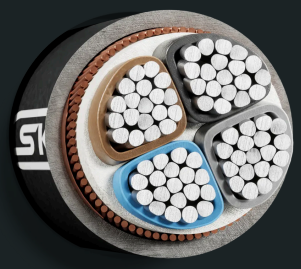
**Bending radius (min.)**
12 x Ø of cable (multicore)
15 x Ø of cable (singlecore)

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

**Core identification**
HD 308 S2

**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 (mm²) | 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 (mm²) | 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 |

Technical changes reserved. All figures are therefore without guarantee.

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