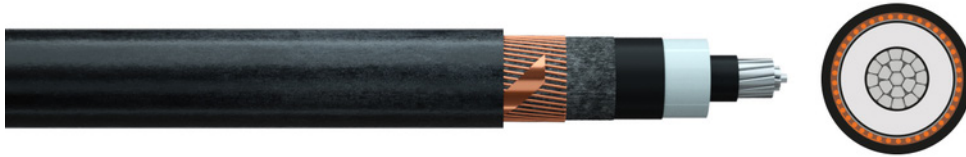


Medium voltage cable NA2XS2Y



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under DIN VDE 0482-332-1. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation.

Construction and technical data:

| | |
|--|---|
| Standard: | VDE 0276-620 |
| Conductor material: | aluminium |
| Conductor construction: | Class 2 = stranded |
| Insulation: | XLPE DIX8 |
| Electrical field control: | inner and outer semiconducting layer (triple extrusion) |
| Screen: | Copper wires + counter helix |
| Sheathing material: | polyethylene DMP2 |
| Colour of outer sheath: | black |
| Flame-retardant: | none |
| UV-resistant: | yes |
| For outdoor use: | yes |
| Max. temperature at conductor, °C: | 90 °C |
| Permitted outer cable temperature, fixed, °C: | 70 °C |
| Permitted outer cable temperature, moved, °C: | -20 - +70 °C |
| Bending radius, fixed installation: | 15 x Ø |
| Partial discharge: | 2 pC |



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

NA2XS2Y 6/10 kV

| | |
|--|-------|
| Nominal voltage U_o: | 6 kV |
| Nominal voltage U: | 10 kV |
| Maximum permitted operating voltage in three-phase systems: | 12 kV |
| Test voltage: | 21 kV |

| part no. | part name | | DI [mm] | RI [Ohm/km] | Wi [mm] | I _{bl} [A] | I _{be} [A] | I _k [kA] | W _m [mm] | R _{bv} [mm] | Ø [mm] | F _{zv} [N] | Al | Cu | G [kg] |
|----------|-----------|-----|---------|-------------|---------|---------------------|---------------------|---------------------|---------------------|----------------------|--------|---------------------|------|-----|--------|
| 011431 | 1X50/16 | RMv | 8.6 | 0.641 | 3.4 | 183 | 171 | 4.7 | 2.1 | 375 | 25 | 1500 | 145 | 182 | 670 |
| 011432 | 1X70/16 | RMv | 10.2 | 0.443 | 3.4 | 228 | 208 | 6.58 | 2.1 | 405 | 27 | 2100 | 203 | 182 | 750 |
| 011433 | 1X95/16 | RMv | 12 | 0.32 | 3.4 | 278 | 248 | 8.93 | 2.1 | 420 | 28 | 2850 | 276 | 182 | 860 |
| 011498 | 1X120/16 | RMv | 13.5 | 0.253 | 3.4 | 321 | 283 | 11.3 | 2.1 | 450 | 30 | 3600 | 348 | 182 | 950 |
| 013074 | 1X120/50 | RMv | 13.5 | 0.253 | 3.4 | 321 | 283 | 11.3 | 2.1 | 450 | 29.6 | 3600 | 348 | 560 | 1248 |
| 011434 | 1X150/16 | RMv | 15 | 0.206 | 3.4 | 364 | 315 | 14.1 | 2.1 | 465 | 31 | 4500 | 435 | 182 | 1100 |
| 011435 | 1X150/25 | RMv | 15 | 0.206 | 3.4 | 364 | 315 | 14.1 | 2.1 | 465 | 31 | 4500 | 435 | 283 | 1150 |
| 011436 | 1X185/16 | RMv | 16.8 | 0.164 | 3.4 | 418 | 357 | 17.4 | 2.1 | 495 | 33 | 5550 | 537 | 182 | 1250 |
| 011437 | 1X185/25 | RMv | 16.8 | 0.164 | 3.4 | 418 | 357 | 17.4 | 2.1 | 495 | 33 | 5550 | 537 | 283 | 1300 |
| 011438 | 1X240/16 | RMv | 19.2 | 0.125 | 3.4 | 494 | 413 | 22.6 | 2.1 | 525 | 35 | 7200 | 696 | 182 | 1400 |
| 011439 | 1X240/25 | RMv | 19.2 | 0.125 | 3.4 | 494 | 413 | 22.6 | 2.1 | 525 | 35 | 7200 | 696 | 283 | 1500 |
| 011440 | 1X300/25 | RMv | 21.6 | 0.1 | 3.4 | 568 | 466 | 28.2 | 2.1 | 555 | 37 | 9000 | 870 | 283 | 1750 |
| 011441 | 1X400/35 | RMv | 24.6 | 0.0778 | 3.4 | 660 | 529 | 37.6 | 2.1 | 615 | 41 | 12000 | 1160 | 394 | 2150 |
| 011442 | 1X500/35 | RMv | 27.6 | 0.0605 | 3.4 | 767 | 602 | 47 | 2.1 | 660 | 44 | 15000 | 1450 | 394 | 2500 |
| 013026 | 1X630/35 | RMv | 32.5 | 0.0469 | 3.4 | 890 | 675 | 59.2 | 2.1 | 720 | 48 | 18900 | 1827 | 394 | 2500 |

NA2XS2Y 12/20 kV

| | |
|--|-------|
| Nominal voltage U_o: | 12 kV |
| Nominal voltage U: | 20 kV |
| Maximum permitted operating voltage in three-phase systems: | 24 kV |
| Test voltage: | 42 kV |

| part no. | part name | | DI [mm] | RI [Ohm/km] | Wi [mm] | I _{bl} [A] | I _{be} [A] | I _k [kA] | W _m [mm] | R _{bv} [mm] | Ø [mm] | F _{zv} [N] | Al | Cu | G [kg] |
|----------|-----------|-----|---------|-------------|---------|---------------------|---------------------|---------------------|---------------------|----------------------|--------|---------------------|------|-----|--------|
| 012811 | 1X35/16 | RM | 7.5 | 0.524 | 5.5 | 155 | 145 | 3.2 | 2.1 | 420 | 28 | 1750 | 102 | 182 | 725 |
| 011443 | 1X50/16 | RMv | 8.6 | 0.641 | 5.5 | 185 | 172 | 4.7 | 2.1 | 435 | 29 | 1500 | 145 | 182 | 830 |
| 011444 | 1X70/16 | RMv | 10.2 | 0.443 | 5.5 | 231 | 210 | 6.58 | 2.1 | 465 | 31 | 2100 | 203 | 182 | 920 |
| 013027 | 1X70/25 | RMv | 10.2 | 0.443 | 5.5 | 231 | 210 | 6.58 | 2.1 | 480 | 32 | 2100 | 182 | 435 | 1332 |
| 011324 | 1X95/16 | RMv | 12 | 0.32 | 5.5 | 280 | 251 | 8.93 | 2.1 | 480 | 32 | 2850 | 276 | 182 | 1050 |
| 011323 | 1X120/16 | RMv | 13.5 | 0.253 | 5.5 | 323 | 285 | 11.3 | 2.1 | 510 | 34 | 3600 | 348 | 182 | 1150 |
| 013075 | 1X120/50 | RMv | 13.5 | 0.253 | 5.5 | 323 | 285 | 11.3 | 2.1 | 510 | 33.8 | 3600 | 348 | 560 | 1427 |
| 011445 | 1X150/16 | RMv | 15 | 0.206 | 5.5 | 366 | 319 | 14.1 | 2.1 | 525 | 35 | 4500 | 435 | 182 | 1300 |
| 011325 | 1X150/25 | RMv | 15 | 0.206 | 5.5 | 366 | 319 | 14.1 | 2.1 | 525 | 35 | 4500 | 435 | 283 | 1350 |
| 011446 | 1X185/16 | RMv | 16.8 | 0.164 | 5.5 | 420 | 361 | 17.4 | 2.1 | 555 | 37 | 5550 | 537 | 182 | 1450 |
| 011321 | 1X185/25 | RMv | 16.8 | 0.164 | 5.5 | 420 | 361 | 17.4 | 2.1 | 555 | 37 | 5550 | 537 | 283 | 1550 |
| 011449 | 1X240/16 | RMv | 19.2 | 0.125 | 5.5 | 496 | 417 | 22.6 | 2.1 | 600 | 40 | 7200 | 696 | 182 | 1650 |
| 011448 | 1X240/25 | RMv | 19.2 | 0.125 | 5.5 | 496 | 417 | 22.6 | 2.1 | 600 | 40 | 7200 | 696 | 283 | 1750 |
| 013076 | 1X240/50 | RMv | 19.2 | 0.125 | 5.5 | 496 | 417 | 22.6 | 2.1 | 600 | 39.2 | 7200 | 696 | 560 | 1898 |
| 011450 | 1X300/25 | RMv | 21.6 | 0.1 | 5.5 | 569 | 471 | 28.2 | 2.1 | 630 | 42 | 9000 | 870 | 283 | 2000 |
| 011451 | 1X400/35 | RMv | 24.6 | 0.0778 | 5.5 | 660 | 535 | 37.6 | 2.1 | 675 | 45 | 12000 | 1160 | 394 | 2400 |
| 011452 | 1X500/35 | RMv | 27.6 | 0.0605 | 5.5 | 766 | 609 | 47 | 2.1 | 720 | 48 | 15000 | 1450 | 394 | 2800 |
| 013077 | 1X500/50 | RMv | 27.6 | 0.0605 | 5.5 | 766 | 609 | 47 | 2.1 | 720 | 47.7 | 15000 | 1450 | 560 | 2843 |
| 012227 | 1X630/35 | RMv | 32.5 | 0.0469 | 5.5 | 890 | 675 | 59.2 | 2.1 | 780 | 52 | 18900 | 1827 | 394 | 3297 |
| 013152 | 1X800/35 | RMv | 37.6 | 0.0367 | 5.5 | 1015 | 750 | 75.2 | 2.4 | 870 | 58 | 24000 | 2320 | 394 | 3900 |

NA2XS2Y 18/30 kV**Nominal voltage U_o:** 18 kV**Nominal voltage U:** 30 kV**Maximum permitted operating voltage in** 36 kV**three-phase systems:****Test voltage:** 63 kV

| part no. | part name | | DI [mm] | RI [Ohm/km] | Wi [mm] | I _{bl} [A] | I _{be} [A] | I _k [kA] | W _m [mm] | R _{bv} [mm] | Ø [mm] | F _{zv} [N] | Al | Cu | G [kg] |
|----------|-----------|-----|---------|-------------|---------|---------------------|---------------------|---------------------|---------------------|----------------------|--------|---------------------|------|-----|--------|
| 011453 | 1X50/16 | RMv | 8.6 | 0.641 | 8 | 187 | 174 | 4.7 | 2.1 | 510 | 34 | 1500 | 145 | 182 | 1100 |
| 011454 | 1X70/16 | RMv | 10.2 | 0.443 | 8 | 232 | 213 | 6.58 | 2.1 | 540 | 36 | 2100 | 203 | 182 | 1200 |
| 011455 | 1X95/16 | RMv | 12 | 0.32 | 8 | 282 | 254 | 8.93 | 2.1 | 555 | 37 | 2850 | 276 | 182 | 1300 |
| 011456 | 1X120/16 | RMv | 13.5 | 0.253 | 8 | 325 | 289 | 11.3 | 2.1 | 585 | 39 | 3600 | 348 | 182 | 1450 |
| 011457 | 1X150/25 | RMv | 15 | 0.206 | 8 | 367 | 322 | 14.1 | 2.1 | 600 | 40 | 4500 | 435 | 283 | 1650 |
| 011458 | 1X185/25 | RMv | 16.8 | 0.164 | 8 | 421 | 364 | 17.4 | 2.1 | 630 | 42 | 5550 | 537 | 283 | 1800 |
| 011459 | 1X240/25 | RMv | 19.2 | 0.125 | 8 | 496 | 422 | 22.6 | 2.1 | 660 | 44 | 7200 | 696 | 283 | 2050 |
| 011460 | 1X300/25 | RMv | 21.6 | 0.1 | 8 | 568 | 476 | 28.2 | 2.1 | 705 | 47 | 9000 | 870 | 283 | 2300 |
| 011461 | 1X400/35 | RMv | 24.6 | 0.0778 | 8 | 659 | 541 | 37.6 | 2.1 | 750 | 50 | 12000 | 1160 | 394 | 2750 |
| 011462 | 1X500/35 | RMv | 27.6 | 0.0605 | 8 | 764 | 616 | 47 | 2.1 | 795 | 53 | 15000 | 1450 | 394 | 3150 |
| 013116 | 1X630/35 | RMv | 32.5 | 0.0469 | 8 | 890 | 675 | 59.2 | 2.1 | 930 | 62 | 18900 | 1827 | 394 | 3770 |

| | |
|-----------------|--|
| DI | diameter conductor |
| RI | Conductor resistance |
| Wi | Insulation wall thickness |
| I _{bl} | Ampacity in air (30 °C) |
| I _{be} | Ampacity in ground (20 °C) |
| I _k | Short-circuit current (1 s) |
| W _m | Wall thickness of sheath |
| R _{bv} | Bending radius, fixed installation |
| Ø | outer diameter approx. |
| F _{zv} | Tensile strength (during installation) |
| Al | Aluminium weight (GER) |
| Cu | Copper weight (GER) |
| G | net weight per 1000 |