



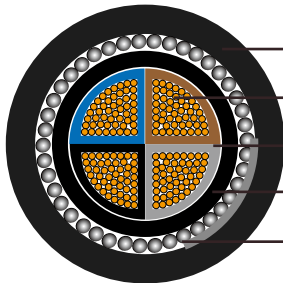
N2XFGY/ NA2XFGY

Application and Description

N2XFGY/ NA2XFGY cables are for lying in earth, indoors, in ducts, in the open air, in the water, when additional mechanical protection is required when cable is exposed to mechanical tensile strain during laying and use. For use in mines according to Technical standards for electrical plants, equipments and installations in mines, as well as horizontal and vertical installation in places where there is a height difference in mines, including methane holes.

Standard and Approval

IEC 60502-1, VDE 0276-603



- PVC outer jacket
- Plain copper conductor
- XLPE insulation
- Thermoplastic compound filler
- Flat steel wire with steel tape armour

N2XFGY



N2XFGY

Cable Construction

- Stranded plain copper/aluminum conductor
- to DIN VDE 0295 cl. 2, IEC 60228 cl. 2
- Cross-linked polyethylene 2X11 acc. to VDE 0276-603
- Color coded to DIN VDE 0293(HD 308)
- Thermoplastic compound filler
- Flat steel wire with steel tape armour
- PVC outer jacket DMV5 to HD 603.1



Technical Characteristics

- Working voltage: 600/1000 volts
- Test voltage: 3500 volts
- Minimum bending radius: 12 x Ø
- Flexing temperature: -5° C to +70° C
- Fixed installation temperature: - 30° C to +70° C
- Short circuit temperature: +250° C
- Flame retardant: IEC 60332.1
- Insulation resistance: >20 MΩ x km

Cable Parameter

| AWG | No. of Cores x Nominal Cross Sectional Area # x mm ² | Conductor Type | Nominal Overall Diameter mm | Copper Weight kg / km | Copper Cable Weight kg / km | AL Weight kg / km | AL Cable Weight kg / km |
|--------|--|-------------------|--------------------------------------|-----------------------------|--------------------------------------|-------------------------|-------------------------------|
| 4 | 3x25 | rm | 25,5 | 720 | 1617 | 218 | 1149 |
| 2 | 3x35 | rm | 28,0 | 1008 | 2010 | 305 | 1354 |
| 1 | 3x50 | sm | 28,0 | 1440 | 2210 | 435 | 1309 |
| 2/0 | 3x70 | sm | 31,5 | 2016 | 2925 | 609 | 1628 |
| 3/0 | 3x95 | sm | 35,0 | 2736 | 3835 | 827 | 2023 |
| 4/0 | 3x120 | sm | 38,0 | 3456 | 4662 | 1044 | 2367 |
| 300mcm | 3x150 | sm | 42,0 | 4320 | 5586 | 1305 | 2787 |
| 350mcm | 3x185 | sm | 46,5 | 5328 | 6900 | 1610 | 3372 |
| 500mcm | 3x240 | sm | 51,5 | 6912 | 8732 | 2088 | 4057 |
| 4 | 3x25+16 | rm | 26,5 | 874 | 1807 | 263 | 1230 |
| 2 | 3x35+16 | rm | 29,0 | 1162 | 2193 | 351 | 1426 |
| 1 | 3x50+25 | sm | 31,0 | 1680 | 2593 | 507 | 1534 |
| 2/0 | 3x70+35 | sm | 35,5 | 2352 | 3476 | 711 | 1958 |
| 3/0 | 3x95+50 | sm | 38,5 | 3216 | 4461 | 972 | 2350 |
| 4/0 | 3x120+70 | sm | 42,0 | 4128 | 5494 | 1247 | 2766 |
| 300mcm | 3X150+70 | sm | 47,0 | 4992 | 6586 | 1508 | 3339 |
| 350mcm | 3X185+95 | sm | 51,0 | 6240 | 8095 | 1886 | 3962 |
| 500mcm | 3X240+120 | sm | 58,0 | 8064 | 10400 | 2436 | 4964 |
| 10 | 4x6 | rm | 18,0 | 230 | 753 | 70 | 603 |



German Standard (VDE)

| AWG | No. of Cores x Nominal Cross Sectional Area # x mm ² | Conductor Type | Nominal Overall Diameter mm | Copper Weight kg / km | Copper Cable Weight kg / km | AL Weight kg / km | AL Cable Weight kg / km |
|--------|--|-------------------|--------------------------------------|-----------------------------|--------------------------------------|-------------------------|-------------------------------|
| 8 | 4x10 | rm | 20,0 | 384 | 1006 | 116 | 755 |
| 6 | 4x16 | rm | 23,5 | 614 | 1374 | 186 | 910 |
| 4 | 4x25 | rm | 28,0 | 960 | 1946 | 290 | 1319 |
| 2 | 4x35 | rm | 30,5 | 1344 | 2447 | 406 | 1572 |
| 1 | 4x50 | sm | 31,0 | 1920 | 2780 | 580 | 1574 |
| 2/0 | 4x70 | sm | 35,0 | 2688 | 3729 | 812 | 1992 |
| 3/0 | 4x95 | sm | 38,5 | 3648 | 4870 | 1102 | 2440 |
| 4/0 | 4x120 | sm | 41,5 | 4608 | 5949 | 1392 | 2873 |
| 300mcm | 4x150 | sm | 47,0 | 5760 | 7264 | 1740 | 3513 |
| 350mcm | 4x185 | sm | 51,0 | 7104 | 8878 | 2148 | 4147 |
| 500mcm | 4x240 | sm | 58,0 | 9216 | 11436 | 2784 | 5170 |
| 10 | 5x6 | rm | 19,5 | 288 | 837 | 88 | 686 |
| 8 | 5x10 | rm | 21,5 | 480 | 1170 | 145 | 857 |
| 6 | 5x16 | rm | 25,5 | 768 | 1628 | 233 | 1057 |
| 4 | 5x25 | rm | 30,0 | 1200 | 2325 | 363 | 1570 |