

**// Application**

These are cables with low dielectric losses used in energy networks with sudden load changes. Laid in residential or industrial areas, underground or in ducts. If the cable gets water inside due to mechanical damage, the swellable tapes prevent the movement of the water inside the cable.

**// Construction**

1. Stranded aluminum conductor.
2. Inner semi-conductive layer.
3. XLPE insulation.
4. Outer semi-conductive layer.
5. Semi-conductive swellable tape.
6. Copper wire screen.
7. Swellable tape.
8. PE outer jacket.

**// Cable Summary**

|                                |              |
|--------------------------------|--------------|
| Max. operating temperature     | : 90°C       |
| Max. short circuit temperature | : 250 °C     |
| Rated voltage                  | : 20.8/36 kV |
| Min. bending radius            | : 15 x D     |

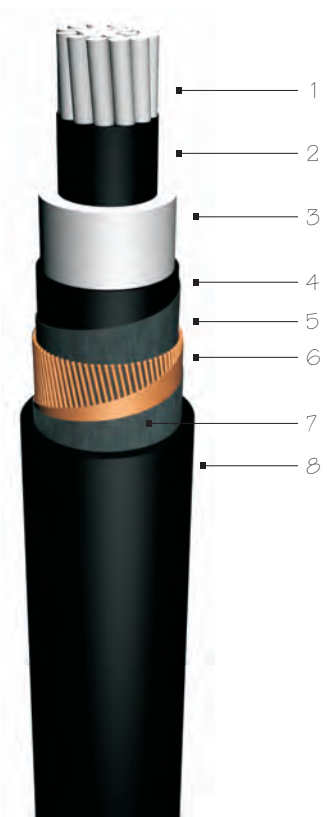
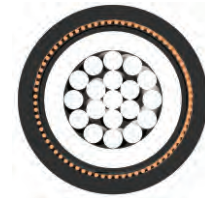
D = Cable outer diameter

**// Standards**

IEC 60502 | BS 6622 | VDE 0276

**// Code**

NA2XS(F)2Y | AL/XLPE/LW/CWS/LW/PE



| Electrical Properties                    |  |                                      |                     |                                       |                                     |                                     |                                  |                                  | Dimensions & Weights        |                              |                            |                    |
|--|--|--------------------------------------|---------------------|---------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|----------------------------------|-----------------------------|------------------------------|----------------------------|--------------------|
| DC<br>Conductor<br>Resistance<br>@ 20 °C | DC<br>Conductor<br>Resistance<br>@ 90 °C | Operation<br>Inductance<br>(approx.) |                     | Operation<br>Capacitance<br>(approx.) | Current Carrying Capacity           |                                     |                                  |                                  | Nominal<br>Cross<br>Section | Overall<br>Dia.<br>(approx.) | Net<br>Weight<br>(approx.) | Delivery<br>Length |
|  |  | mH/km <sub>000</sub>                 | mH/km <sub>00</sub> |                                       | µF/km                               | in Ground<br>@ 20 °C <sub>000</sub> | in Duct<br>@ 20 °C <sub>00</sub> | in Air <sub>000</sub><br>@ 30 °C |                             |                              |                            |                    |
| ohm/km                                   | mH/km                                    | mH/km <sub>000</sub>                 | mH/km <sub>00</sub> | µF/km                                 | in Ground<br>@ 20 °C <sub>000</sub> | in Duct<br>@ 20 °C <sub>00</sub>    | in Air <sub>000</sub><br>@ 30 °C | in Air <sub>00</sub><br>@ 30 °C  | mm <sup>2</sup>             | mm                           | kg/km                      | m                  |
| 1.2000                                   | 1.5360                                   | 0.716                                | 0.502               | 0.105                                 | -                                   | -                                   | -                                | -                                | 1x025/16                    | 36.5                         | 950                        | 1000               |
| 0.8680                                   | 1.1110                                   | 0.690                                | 0.480               | 0.115                                 | -                                   | -                                   | -                                | -                                | 1x035/16                    | 37.5                         | 1000                       | 1000               |
| 0.6410                                   | 0.8205                                   | 0.664                                | 0.459               | 0.125                                 | 196                                 | 175                                 | 217                              | 187                              | 1x050/16                    | 38.5                         | 1100                       | 1000               |
| 0.4430                                   | 0.5670                                   | 0.633                                | 0.434               | 0.140                                 | 238                                 | 214                                 | 270                              | 232                              | 1x070/16                    | 40.5                         | 1250                       | 1000               |
| 0.3200                                   | 0.4096                                   | 0.609                                | 0.416               | 0.153                                 | 284                                 | 256                                 | 328                              | 281                              | 1x095/16                    | 42.0                         | 1400                       | 1000               |
| 0.2530                                   | 0.3238                                   | 0.590                                | 0.401               | 0.165                                 | 322                                 | 290                                 | 378                              | 323                              | 1x120/16                    | 44.0                         | 1500                       | 1000               |
| 0.2060                                   | 0.2637                                   | 0.572                                | 0.389               | 0.178                                 | 355                                 | 324                                 | 425                              | 365                              | 1x150/25                    | 45.5                         | 1750                       | 1000               |
| 0.1640                                   | 0.2099                                   | 0.556                                | 0.376               | 0.191                                 | 400                                 | 366                                 | 485                              | 418                              | 1x185/25                    | 47.5                         | 1950                       | 1000               |
| 0.1250                                   | 0.1600                                   | 0.535                                | 0.363               | 0.209                                 | 461                                 | 426                                 | 572                              | 494                              | 1x240/25                    | 50.0                         | 2200                       | 1000               |
| 0.1000                                   | 0.1280                                   | 0.519                                | 0.351               | 0.226                                 | 516                                 | 479                                 | 649                              | 564                              | 1x300/25                    | 52.5                         | 2450                       | 1000               |
| 0.0788                                   | 0.1009                                   | 0.497                                | 0.338               | 0.252                                 | 572                                 | 545                                 | 737                              | 654                              | 1x400/35                    | 55.5                         | 2950                       | 1000               |
| 0.0605                                   | 0.0774                                   | 0.481                                | 0.328               | 0.274                                 | 638                                 | 614                                 | 835                              | 747                              | 1x500/35                    | 59.0                         | 3400                       | 1000               |
| 0.0469                                   | 0.0600                                   | 0.464                                | 0.317               | 0.300                                 | 728                                 | 690                                 | 950                              | 851                              | 1x630/35                    | 62.5                         | 3900                       | 1000               |



Laying / Installation method:

Linear | ○○○  
Triangular | ○○○

