

**// 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                  | : 8.7/15 kV |
| Min. bending radius            | : 15 x D    |

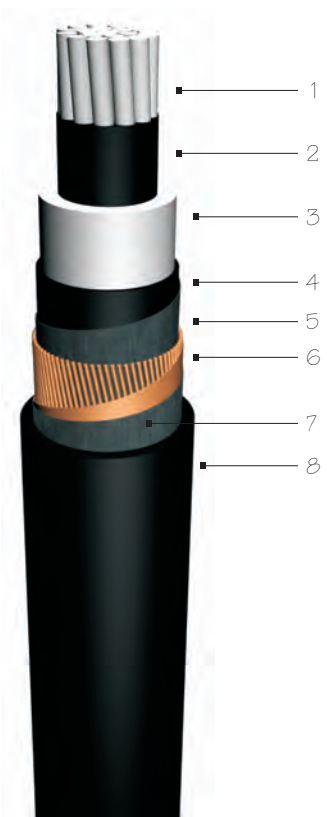
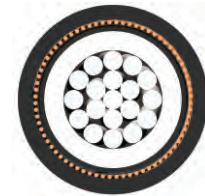
D = Cable outer diameter

**// 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                                   | 0.698                                | 0.442               | 0.164                                 | -                                   | -                                   | -                                | -                                | 1x025/16                    | 27.0                         | 550                        | 1000               |
| 0.8680                                   | 1.1110                                   | 0.672                                | 0.422               | 0.181                                 | -                                   | -                                   | -                                | -                                | 1x035/16                    | 28.0                         | 650                        | 1000               |
| 0.6410                                   | 0.8205                                   | 0.646                                | 0.403               | 0.201                                 | 194                                 | 171                                 | 215                              | 181                              | 1x050/16                    | 29.0                         | 700                        | 1000               |
| 0.4430                                   | 0.5670                                   | 0.615                                | 0.381               | 0.229                                 | 236                                 | 209                                 | 269                              | 226                              | 1x070/16                    | 30.5                         | 800                        | 1000               |
| 0.3200                                   | 0.4096                                   | 0.591                                | 0.364               | 0.255                                 | 281                                 | 249                                 | 327                              | 275                              | 1x095/16                    | 32.5                         | 900                        | 1000               |
| 0.2530                                   | 0.3238                                   | 0.572                                | 0.353               | 0.278                                 | 318                                 | 283                                 | 377                              | 317                              | 1x120/16                    | 34.5                         | 1050                       | 1000               |
| 0.2060                                   | 0.2637                                   | 0.555                                | 0.341               | 0.302                                 | 350                                 | 316                                 | 424                              | 359                              | 1x150/25                    | 35.5                         | 1250                       | 1000               |
| 0.1640                                   | 0.2099                                   | 0.539                                | 0.332               | 0.328                                 | 393                                 | 358                                 | 485                              | 412                              | 1x185/25                    | 37.5                         | 1400                       | 1000               |
| 0.1250                                   | 0.1600                                   | 0.519                                | 0.321               | 0.363                                 | 453                                 | 416                                 | 573                              | 489                              | 1x240/25                    | 40.5                         | 1600                       | 1000               |
| 0.1000                                   | 0.1280                                   | 0.502                                | 0.311               | 0.398                                 | 507                                 | 469                                 | 652                              | 559                              | 1x300/25                    | 42.5                         | 1800                       | 1000               |
| 0.0788                                   | 0.1009                                   | 0.482                                | 0.301               | 0.447                                 | 559                                 | 532                                 | 741                              | 651                              | 1x400/35                    | 46.0                         | 2300                       | 1000               |
| 0.0605                                   | 0.0774                                   | 0.466                                | 0.293               | 0.491                                 | 622                                 | 599                                 | 838                              | 744                              | 1x500/35                    | 49.5                         | 2650                       | 1000               |
| 0.0469                                   | 0.0600                                   | 0.450                                | 0.285               | 0.543                                 | 697                                 | 679                                 | 957                              | 851                              | 1x630/35                    | 53.0                         | 3100                       | 1000               |



Laying / Installation method:

Linear | ○○○  
Triangular | ○○○

