

**// 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 where there is no risk of mechanical damage.

**// Construction**

1. Stranded copper conductor.
2. Inner semi-conductive layer.
3. XLPE insulation.
4. Outer semi-conductive layer.
5. Semi-conductive tape.
6. Copper wire screen.
7. Filler.
8. PVC outer jacket.

**// Cable Summary**

|                                |            |
|--------------------------------|------------|
| Max. operating temperature     | : 90°C     |
| Max. short circuit temperature | : 250 °C   |
| Rated voltage                  | : 3.6/6 kV |
| Min. bending radius            | : 15 x D   |

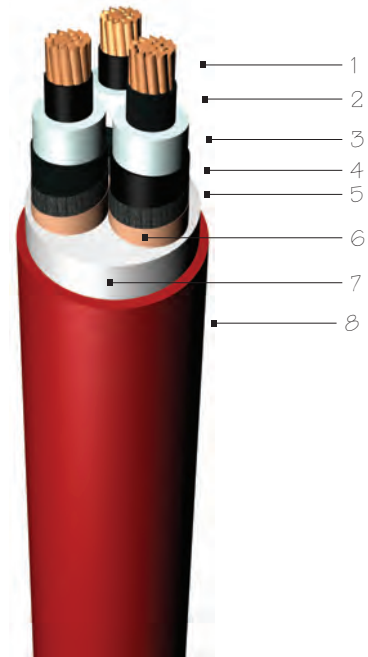
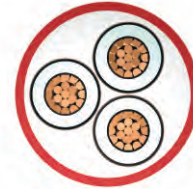
D = Cable outer diameter

**// Standards**

IEC 60502 | BS 6622 | VDE 0276

**// Code**

YAXC8V-R | N2XSEY | CU/XLPE/CTS/PVC  
R: Stranded Conductor Rigid



**Electrical Properties**

| DC<br>Conductor<br>Resistance<br>@ 20 °C | Operation<br>Inductance<br>(approx.) | Operation<br>Capacitance<br>(approx.) | Current Carrying<br>Capacity |                   |
|--|--------------------------------------|---------------------------------------|------------------------------|-------------------|
|  |                                      |                                       | in Ground<br>@ 20 °C         | in Air<br>@ 30 °C |
| ohm/km                                   | mH/km                                | µF/km                                 |                              |                   |
| 0.7270                                   | 0.370                                | 0.208                                 | 149                          | 141               |
| 0.5240                                   | 0.352                                | 0.229                                 | 176                          | 171               |
| 0.3870                                   | 0.336                                | 0.255                                 | 208                          | 196               |
| 0.2680                                   | 0.318                                | 0.288                                 | 255                          | 249               |
| 0.1930                                   | 0.303                                | 0.324                                 | 307                          | 307               |
| 0.1530                                   | 0.292                                | 0.359                                 | 353                          | 353               |
| 0.1240                                   | 0.284                                | 0.388                                 | 396                          | 406               |
| 0.0991                                   | 0.276                                | 0.424                                 | 447                          | 464               |
| 0.0754                                   | 0.267                                | 0.469                                 | 523                          | 548               |
| 0.0601                                   | 0.263                                | 0.486                                 | 581                          | 632               |
| 0.0470                                   | 0.257                                | 0.521                                 | 653                          | 726               |

**Dimensions & Weights**

| Nominal<br>Cross<br>Section | Overall<br>Dia.<br>(approx.) | Net<br>Weight<br>(approx.) | Delivery<br>Length |
|-----------------------------|------------------------------|----------------------------|--------------------|
| mm <sup>2</sup>             | mm                           | kg/km                      | m                  |
| 3x25/16                     | 39.5                         | 2250                       | 1000               |
| 3x35/16                     | 42.0                         | 2700                       | 1000               |
| 3x50/16                     | 45.0                         | 3350                       | 1000               |
| 3x70/16                     | 48.5                         | 4150                       | 1000               |
| 3x95/16                     | 53.0                         | 5200                       | 500                |
| 3x120/16                    | 57.0                         | 6250                       | 500                |
| 3x150/25                    | 60.5                         | 7350                       | 500                |
| 3x185/25                    | 64.5                         | 8650                       | 500                |
| 3x240/25                    | 71.0                         | 10850                      | 250                |
| 3x300/25                    | 77.5                         | 13200                      | 250                |
| 3x400/35                    | 86.0                         | 16900                      | 250                |



Laying / Installation method:

Linear | ○○○  
Triangular | ○○

