**Technical data**
- XLPE-insulated power cables to DIN VDE 0276 part 620, HD 620 S1 and IEC 60502
- Temperature range during installation up to –5 °C
- Operating temperature max. 90 °C
- Short circuit temperature 250 °C (short circuit duration up to 5 sec)
- Nominal voltages U0/U 6/10 kV, 12/20 kV, 18/30 kV
- Operating voltages for 6/10 kV = max. 12 kV 12/20 kV = max. 24 kV 18/30 kV = max. 36 kV
- Test voltages for 6/10 kV = 15 kV 12/20 kV = 30 kV 18/30 kV = 45 kV
- Minimum bending radius max. 15 x cable ø

**Power ratings table** see page T 35f

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No. cores x cross-sec. n x mm²</th>
<th>Insulation thickness mm</th>
<th>PVC-jacket thickness mm</th>
<th>Outer Ø min. mm</th>
<th>Outer Ø max. mm</th>
<th>Cop. weight kg/km</th>
<th>Weight ca. kg/km</th>
<th>AWG no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N2XSY 6/10 kV</td>
<td>1 x 35 mm²/16</td>
<td>3,4</td>
<td>2,5</td>
<td>25</td>
<td>28</td>
<td>518</td>
<td>905</td>
<td>2</td>
</tr>
<tr>
<td>N2XSY 12/20 kV</td>
<td>1 x 35 mm²/16</td>
<td>5,5</td>
<td>2,5</td>
<td>27</td>
<td>32</td>
<td>518</td>
<td>1110</td>
<td>2</td>
</tr>
<tr>
<td>N2XSY 18/30 kV</td>
<td>1 x 35 mm²/16</td>
<td>8,0</td>
<td>2,5</td>
<td>30</td>
<td>35</td>
<td>518</td>
<td>1750</td>
<td>2</td>
</tr>
</tbody>
</table>

**Cable structure**
- Circular bare Cu-conductor of stranded wires to HD 383
- Inner semi-conducting coating
- Core insulation of cross-linked Polyethylene (XLPE), PE-compound DIX8 to HD 620.1
- Outer extrusion of semi-conducting coating spliced with the insulation
- Tape of conductive material
- Screen of copper wires and one or two copper tapes applied helically
- Inner covering or tape lapping
- PVC outer jacket, compound DMV6 to HD 620.1, jacket colour red

**Installation notes**
To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation.

**Application**
Suitable for installation mostly for power supply stations, in indoors and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switch-boards and power stations. Due to the good laying characteristic, this can also be laid easily in difficult line guideways.

See DIN VDE 0298 part 1.

To avoid the influence of the outer interferences, an adherent semi-conductive layer is extruded between the conductor and the PE insulation and also a concentric copper conductor which guarantees the field-limitation and the resistance to the partial discharges ≤ 2 pC by a measuring volt of 2 U0.

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers.