| 38001000 | DATA SHEET | LAPP |
|---|---|---|
| valid from: 2022-08-26 | N2XS2Y | |

## Application

N2XS2Y are power cables for installation in water, in ground, outdoors, indoors and in cable trays for power stations, industry and distribution networks. For installation in cable trays and indoors should be considered, that the PE-sheath is not flame retardant according to IEC 60332-1. Due to the mechanical durability of the PE-sheath the cable is resistant to high mechanical stress during installation or operation.

## Design

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| Design | acc. to DIN VDE 0276-620 |
| Certification | The cable is marked with the ◁ VDE ▷ -sign or VDE-identification thread. |
| Conductor | multi-wire, bare copper conductor acc. IEC 60228 resp. EN 60228 class 2 |
| Insulation | Inner layer: cross-linked, conductive inner layer<br>Core insulation: cross-linked polyethylene compound DIX 8 acc. to HD 620 S2<br>Outer layer: conductive layer extruded and welded with core insulation |
| Screen | Wrapping: conductive wrapping<br>Screen: braiding of copper wires with one or two cross conductive spiral<br>Wrapping: conductive wrapping |
| Outer sheath | PE compound type DMP 2 acc. to HD 620 S2<br>Sheath colour: black |

## Electrical properties at 20 °C

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|---|---|
| Nominal voltage | N2XS2Y 6/10kV: 6/10 kV<br>N2XS2Y 12/20kV: 12/20 kV<br>N2XS2Y 18/30kV: 18/30 kV |
| Operating voltage | N2XS2Y 6/10kV: max. 12 kV<br>N2XS2Y 12/20kV: max. 24 kV<br>N2XS2Y 18/30kV: max. 36 kV |
| Test voltage | N2XS2Y 6/10kV: 21 kV<br>N2XS2Y 12/20kV: 42 kV<br>N2XS2Y 18/30kV: 63 kV |

## Mechanical and thermal properties

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|---|---|
| Minimum bending radius | 15 x outer diameter |
| Temperature range | during installation: -20 °C up to +50 °C max. conductor temperature<br>fixed installation: -40 °C up to +90 °C max. conductor temperature |
| Halogen free | acc. to IEC 60754-1 resp. EN 60754-1 |

**Note** Trade product, no Lapp product