

|                                   |                       |                                                                                     |
|-----------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| <b>1550556</b>                    | <b>DATA SHEET</b>     |  |
| <b>valid from:<br/>2021-10-20</b> | <b>N2XH-J, N2XH-O</b> |                                                                                     |

## Application

N2XH-J, N2XH-O are halogen free, highly flame retardant power cables for installation indoors, in the air or concrete. For outdoor use the cable should be protected against sunlight and the temperature range should be considered. Not intended for direct-buried installations or in water. Strains of more than 15 N/mm<sup>2</sup> are not allowed.

Application range:

Especially for use in power stations, in transformer stations and for power supply and particularly where human life as well as valuable property are exposed to high risk of fire hazards.

## Design

|                          |                                                                                                                                                                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design                   | acc. to DIN VDE 0276-604 (VDE 0276-604)                                                                                                                                                                                                                  |
| Certification            | The cable is marked with the <VDE> HAR-sign or HAR-identification thread.<br>Classification of fire behaviour<br>according to EN 13501-6 and EN 50575<br>(article/dimension range see <a href="http://www.lappkabel.com/cpr">www.lappkabel.com/cpr</a> ) |
| Conductor                | single or multi-wire,<br>bare copper wire conductor acc. IEC 60228 resp. EN 60228 (VDE 0295), class 1 or 2                                                                                                                                               |
| Insulation               | irradiated Polyethylene compound 2Xl1 acc. to VDE 0276-604 (VDE 0276-604)                                                                                                                                                                                |
| Core identification code | colour-coded acc. to VDE 0293-308 (VDE 0293-308)                                                                                                                                                                                                         |
| Outer sheath             | halogen free, thermoplastic Polyolefin-compound HM4 acc. to VDE 0276-604 (VDE 0276-604)<br>colour: black                                                                                                                                                 |

## Electrical properties at 20 °C

|                 |                               |
|-----------------|-------------------------------|
| Nominal voltage | U <sub>0</sub> /U: 600/1000 V |
| Test voltage    | C / C: 4000 V AC              |

## Mechanical and thermal properties

|                        |                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minimum bending radius | single core: 15 x outer diameter<br>multi core: 12 x outer diameter                                                                                          |
| Temperature range      | During installation: -5 °C up to + 90 °C<br>Fixed installation: -40 °C up to +90 °C max. conductor temperature                                               |
| Flammability           | Flame retardant acc. IEC 60332-1-2 resp. EN 60332-1-2 (VDE 0482-332-1-2)<br>No Flame propagation acc. IEC 60332-3-24 resp. EN 60332-3-24 (VDE 0482-332-3-24) |
| Halogen free           | acc. to IEC 60754-1 resp. EN 50267-2-1 (VDE 0482-267-2-1)                                                                                                    |
| Corrosivity of gases   | acc. to IEC 60754-2 resp. EN 50267-2-2 (VDE 0482-267-2-2)                                                                                                    |
| Smoke density          | acc. to EN 61034 (VDE 0482-1034)                                                                                                                             |
| Ozone resistance       | acc. to EN 50396 (VDE 0473-396)                                                                                                                              |

**Tests** acc. to IEC 60811, EN 50395, EN 50396

**General requirements** These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)  
These cables (see [www.lappkabel.com/cpr](http://www.lappkabel.com/cpr)) are classified  
in accordance with the EU-Regulation no. 305/2011 (CPR).

**Environmental information** These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

**Note** Trade product, no Lapp product

|                      |                       |             |
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