1550656	DATA SHEET	LAPP
valid from: 29.09.2021	N2XCH	

Application

N2XCH are halogen free, highly flame retardant power cables with concentric conductor 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/mm² 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 VDE 0276-604
Certification	The cable is characterized with the ⊲VDE⊳-sign or VDE-identification thread. Classification of fire behaviour according to EN 13501-6 and EN 50575 (article/dimension range see www.lappkabel.com/cpr)
Conductor	single or multi-wire, bare copper wire conductor acc. IEC 60228 resp. EN 60228, class 1 or 2 Concentric conductor bare copper wires with counter helix of copper tape
Insulation	irradiated Polyethylene compound 2XI1 acc. to VDE 0276-604
Core identification code	colour-coded acc. to VDE 0293-308
Outer sheath	halogen free, thermoplastic Polyolefin-compound HM4 acc. to VDE 0276-604 colour: black

Electrical properties at 20 °C

Nominal voltage	U_0/U: 600/1000 V
Test voltage	C / C: 4000 V AC

Mechanical and thermal properties

Minimum bending radius	single core: 15 x outer diameter multi core: 12 x outer diameter
Temperature range	During installation: -5 °C up to + 90°C Fixed installation: -40 °C up to +90 °C max. conductor temperature
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 no flame propagation acc. to IEC 60332-3-24 resp. EN 60332-3-24
Halogen free	acc. to IEC 60754-1 resp. EN 50267-2-1
Corrosivity of gases	acc. to IEC 60754-2 resp. EN 50267-2-2
Smoke density	acc. to EN 61034
Ozone resistance	acc. to EN 50396
Tests	acc. to IEC 60811 resp. EN 60811, IEC 60332, IEC 60754, EN 50396.
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive). A part of these cables (see 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