

1550656	DATA SHEET	
valid from: 01.01.2019	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 DIN VDE 0276-604 (VDE 0276-604)
Conductor	single or multi-wire, bare copper wire conductor acc. IEC 60228 resp.. EN 60228 (VDE 0295), class 1 or 2 Concentric conductor bare copper wires with counter helix of copper tape
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) colour: black

Electrical properties at 20°C

Rated 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. IEC 60332-1-2 resp. EN 60332-1-2 (VDE 0482-332-1-2) 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, IEC 60332, IEC 60754, EN 50396 The cable is characterized with the <VDE>-sign or VDE-identification thread.
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

Creator: KASC / PDC	Document: DB1550656EN	Page 1 of 1
Released: ALTE / PDC	Version: 05	