



Nexans Ref.: 10541114

FIRE PERFORMANCE CLASS



B2ca-s1a,d1,a1

0.6/1 kV XLPE insulated single core, halogen free, flame retardant cable

STANDARDS

Product DIN VDE 0276 part 604; IEC 60502-1

KEY CHARACTERISTICS

Construction characteristics

Conductor flexibility Stranded class 2

Usage characteristics

Bending factor when laying 5 (xD)

APPLICATION

N2XH cable is an installation/power cable widely used in applications requiring high levels of fire safety due to the significant number of human lives at stake, such as:

- Industrial and Commercial Electrical Installations
- Electrical panels and control panels
- Indoor applications with fire risk (hotels, schools, high-rise buildings, hospitals, data centers, airports, offices etc.)
- Installations in public places
- Tunnels and underground infrastructures
- Wiring for indoor power and lighting circuits in dry environments

CONSTRUCTION

1. Conductor: Copper
2. Insulation: XLPE
3. Outer sheath: LSZH



Halogen free
IEC 60754-1



Conductor flexibility
Stranded class 2



Rated Voltage U₀/U_i
(Um)
0,6/1 kV



Operating temp.
-20 ... 90 °C



Bending factor
when laying
5 (xD)



Flame retardant
IEC 60332-3 Cat. C



Smoke density
IEC 61034-2



Gases corrosivity
IEC 60754-2

CHARACTERISTICS

Construction characteristics

Conductor material	Copper
Conductor shape	Circular stranded (RM)
Insulation	XLPE (Cross-linked Polyethylene)
Outer sheath	LSZH
Halogen free	IEC 60754-1
Conductor flexibility	Stranded class 2
Core identification	Black
Sheath colour	Black

Dimensional characteristics

Number of cores	1
Conductor cross-section	50 mm ²
Nominal outer diameter	13.0 mm
Approximate weight	500 kg/km
Delivery reel size for 1000m	- cm

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	0,6/1 kV
Max. DC resistance of the conductor at 20°C	0.387 Ohm/km
Perm. current rating in air 30°C - flat formation	275 A
Perm. current rating in air 30°C - trefoil formation	207 A
Permissible current rating buried/direct 20°C	153 A

Usage characteristics

Packaging	Drum
Operating temperature, range	-20 ... 90 °C
Short-circuit max. conductor temperature	250 °C
Bending factor when laying	5 (xD)
Flame retardant	IEC 60332-3 Cat. C
Smoke density	IEC 61034-2
Gases corrosivity	IEC 60754-2
Max. conductor temperature in service	90 °C
U.V resistance	-