

TECHNICAL DATASHEET

N2XRH-J (Cu/XLPE/SWA/LSZH)

PROSTAR

APPLICATION

These are cables with low dielectrical losses used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire. Thanks to the armored structure it can withstand the effects that may arise from the outside. It is suitable for a relatively high ambient temperature due to the maximum permissible conductor temperature.



Total number of cores x Nominal cross section (mm ²)	5x10	5x16
Rated voltage (U ₀ /U)	0,6/1 kV	0,6/1 kV
Applicable Standard	according to IEC 60502-1	according to IEC 60502-1

1 CONDUCTOR

Applicable standard	EN 60228, IEC 60228	EN 60228, IEC 60228
Material of conductor	Class 2 stranded copper	Class 2 stranded copper

2 INSULATION

Material of insulation	XLPE (Cross-linked polyethylene)	XLPE (Cross-linked polyethylene)
Thickness of insulation (mm)	0,90	1,00
Diameter of insulation (mm)	5,70	6,80
Identification of cores	Grey - Black - Brown - Blue - G/Y	Grey - Black - Brown - Blue - G/Y

3 FILLER

Material of filler	LSZH (Low smoke zero halogen)	LSZH (Low smoke zero halogen)
Average thickness of filler (mm)	0,60	0,80
Diameter of filler (mm)	16,65	20,10

4 ARMOUR

Material of armour	Galvanized round steel wire	Galvanized round steel wire
Total number of wires x wire diameter (mm)	31x1,60	38x1,60
Armoured diameter (mm)	19,85	23,30

5 OUTER SHEATH

Material of outer sheath	LSZH (Low smoke zero halogen)	LSZH (Low smoke zero halogen)
Average thickness of outer sheath (mm)	1,70	1,90
Overall cable diameter (mm) approx	23,25	27,10
Colour of outer sheath	BLACK	BLACK

TECHNICAL DATAS AND SPECIFICATIONS

Maximum resistance of the conductor at 20 °C	1,83 ohm/km	1,15 ohm/km
Current carrying capacity in; Ground / Air	87 A / 72 A	113 A / 96 A
AC Test voltage	3500 V	3500 V
Weight of cable (approx)	1344 kg/km	1867 kg/km
Minimum bending radius during laying (mm)	12xCable Ø	12xCable Ø
Flame retardant test of bunched cables	EN IEC 60332-3-24 Cat. C	EN IEC 60332-3-24 Cat. C
Smoke density	EN 61034-2, IEC 61034-2	EN 61034-2, IEC 61034-2
Determination of the amount of halogen acid gas	EN 60754-1, IEC 60754-1	EN 60754-1, IEC 60754-1
Determination of acidity and conductivity	EN 60754-2, IEC 60754-2	EN 60754-2, IEC 60754-2



-20 / +90 °C
Temperature range



90 °C
Max. working temperature



250 °C
Max. short circuit (max.5 sec.)



Impact resistance



IEC 60332-1-2
IEC 60332-3-22
flame test standard



RoHS Compliance



REACH Compliance



European Conformity



Eurasian Conformity

PROSTAR