38107829	DATA SHEET	LAPP
Valid from: 14.09.2020	N2XS(FL)2Y	

Application

N2XS(FL)2Y are power cables for installation in water, in ground, outdoors, indoors and in cable trays for power stations, industry, and distribution networks. For installation in cable trays and indoors should be considered, that the PE-sheath is not flame retardant according to IEC 60332-1. Due to the mechanical durability of the PE-sheath the cable is resistant to high mechanical stress during installation or operation. The water blocking tape avoids water propagation inside the cable, while the resistant Al/PE-laminated sheathing acts as a cross water barrier.

Design

	acc. to DIN VDE 0276-620
Conductor	multi-wire, bare copper conductor acc. IEC 60228 resp. EN 60228 (VDE 0295), class 2
Inner layer	cross-linked, conductive inner layer
Core insulation	cross-linked polyethylene compound DIX 8 acc. to HD 620 S2
Outer layer	conductive layer extruded and welded with core insulation
Wrapping	longitudinally water-tight, conductive wrapping
Screen	braiding of copper wires with one or two cross conductive spiral
Wrapping	longitudinally water-tight, conductive wrapping
Metal foil	crosswise water-tight aluminum foil firmly bonded with PE sheath
Outer sheath	PE compound type DMP 2 acc. to HD 620 S2
Sheath colour	black

Electrical properties

	N2XS(FL)2Y 6/10kV	N2XS(FL)2Y 12/20kV	N2XS(FL)2Y 18/30kV
Nominal voltage U_0/U	6/10kV	12/20kV	18/30kV
Max. operating voltage	12kV	24kV	36kV
Test voltage	21kV	42kV	63kV

Mechanical and thermal properties

Min. bending radius	15 x outer diameter
Temperature range	during installation: -20 °C up to +50°C max. conductor temperature fixed installation: -40°C up to +90°C max. conductor temperature
Halogen free	acc. to IEC 60754-1 resp. EN 60754-1

The cable is characterized with the ◁VDE▷ -sign or VDE-identification thread.