

CPR  
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CE

RoHS  
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INSIDE  
+  
OUTSIDE

I

III

UV

MIN -5°C

MAX +90

# N2XSH 12/20 kV

DIN VDE 0276-622:2006

- Power cables with single copper conductor, XLPE insulation, concentric metallic screen and LSOH outer sheath, with special fire performance for use in fixed installations in air and ducts



## Construction

<b>Conductors</b>	Copper, class 2
<b>Conductor screen</b>	Semi-cond compound
<b>Insulation</b>	XLPE
<b>Insulation screen</b>	Semi-cond compound
<b>Semi-cond. layer</b>	Semi-cond tape(s)
<b>Metallic screen</b>	Copper wires +tape(s)
<b>Additional layer</b>	Polyester tape(s)
<b>Outer sheath</b>	LSOH

## Characteristic

<b>Test voltage</b>	3,5 x U <sub>0</sub> / 5 minutes
<b>Partial discharge</b>	max. 5 pC / 2 x U <sub>0</sub>
<b>Conductor continuous operation temperature</b>	+90°C
<b>Conductor short-circuit temperature</b>	+250°C
<b>Pulling force</b>	50 x S (S = Cu cross-section in mm <sup>2</sup> ) [N]
<b>Lowest temperature during laying</b>	0°C
<b>Bending radius</b>	15 x d (d = diameter of cable)
<b>Symbols</b>	N2XSH – power cable acc to standard DIN VDE 0276-622 (N), with copper conductor, XLPE insulation (2X), copper screen (S) and LSOH outer sheath (H)

\*these constructions are also available with aluminum conductors class 2, based on DIN VDE 0276-622 as (N)A2XSH

## Parameters

Conductor cross-section	Metallic screen cross-section	Nominal thickness of jacket		Overall diameter (approx.)	Weight (approx.)	Max conductor resistance	
		Insulation	Outer sheath			DC 20°C	AC 90°C
mm <sup>2</sup>	mm <sup>2</sup>	mm	mm	mm	kg/km	Ω/km	Ω/km
50	16	5.5	2.5	29.3	1210	0.387	0.496
70	16	5.5	2.5	31.1	1380	0.268	0.345
95	16	5.5	2.5	32.7	1660	0.193	0.249
120	16	5.5	2.5	34.0	1900	0.153	0.198
150	25	5.5	2.5	35.7	2280	0.124	0.163
185	25	5.5	2.5	37.3	2750	0.0991	0.131
240	25	5.5	2.5	40.0	3300	0.0754	0.101
300	25	5.5	2.5	42.0	3900	0.0601	0.083
400	35	5.5	2.5	45.0	4900	0.047	0.066
500	35	5.5	2.5	48.3	6050	0.0366	0.053
630	35	5.5	2.6	52.4	7400	0.0283	0.043