

NA2XS(F)2Y 12/20 kV

XLPE/HDPE middle voltage underground cable, longitudinally water-proof

DESIGN



- 1 | Aluminium conductor, round stranded compressed (RM)
- 2 | Inner semi-conductive layer (conductive XLPE)
- 3 | Core insulation (XLPE)
- 4 | Outer semi-conductive layer (conductive XLPE)
- 5 | Taped with a conductive tape
- 6 | Screen (bare copper wires) and counter helix (copper tape)
- 7 | Swelling tape over screen
- 8 | Sheath (HDPE black, UV-resistant)

APPLICATION

For fixed installation for high requirements in the ground subject to external effects of moisture, in the open air and in cable ducts for industrial and distribution mains – as permitted by the local building regulations – under severe mechanical stressing during installation and operation.

TECHNICAL DATA



Standard:
DIN VDE 0276-620



Rated voltage:
12/20 kV (U₀/U)



Test voltage:
36 kV / 50 Hz



Temperature range:
laying temperature: min. -20 °C
operating temperature: -50 °C up to 90 °C
conductor temperature: max. 90 °C
short circuit temperature: max. 250 °C/5 s



Bending radius (min.):
15 x Ø of cable



Certificate:
VDE Germany

Number of cores x nominal cross-section / cross section of screen (mm ²)	Mutual capacitance (nF/km)	Max. conductor resistance (Ω/km)	Current rating in the earth (A)	Current rating in the air (A)	Outer diameter (mm) appr.	Total weight (kg/km) appr.	Standard lengths/packing (m)
NA2XS(F)2Y 12/20 kV							
1 x 35 RM/16	0.16	0.868	146	155	28.0	650	500 D, 1000 D
1 x 50 RM/16	0.18	0.641	172	185	28.9	780	500 D, 1000 D
1 x 70 RM/16	0.2	0.443	210	231	30.8	890	500 D, 1000 D
1 x 95 RM/16	0.22	0.32	251	280	32.5	1000	500 D, 1000 D
1 x 120 RM/16	0.18	0.253	325	289	39.0	1750	500 D, 1000 D
1 x 150 RM/25	0.26	0.206	319	366	35.1	1290	500 D, 1000 D
1 x 185 RM/25	0.27	0.164	361	420	36.9	1440	500 D, 1000 D
1 x 240 RM/25	0.31	0.125	417	496	39.2	1660	500 D, 1000 D
1 x 300 RM/25	0.33	0.1	471	569	41.7	1900	500 D, 1000 D

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NA2XS(F)2Y 12/20 kV							
1 x 400 RM/35	0.37	0.0778	535	660	45.2	2350	500 D, 1000 D
1 x 500 RM/35	0.41	0.0605	602	767	48.5	2750	500 D, 1000 D
1 x 630 RM/35	0.43	0.0469	675	890	52.0	3240	500 D, 1000 D
1 x 800 RM/35	0.48	0.0367	750	1015	56.2	3880	500 D, 1000 D
1 x 1000 RM/35	0.54	0.0291	820	1135	60.9	4570	500 D, 1000 D

Technical changes reserved. All figures are therefore without guarantee.

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