

NA2XS2Y 12/20 kV

XLPE/PE medium voltage aluminium underground cable

DESIGN



- 1 | Aluminium conductor, round stranded compressed (RM)
- 2 | Outer semi-conductive layer (conductive XLPE)
- 3 | Core insulation (XLPE)
- 4 | Outer semi-conductive layer (conductive XLPE), taped with a conductive tape
- 5 | Screen (bare copper wires) and counter helix (copper tape)
- 6 | Sheath (HDPE black, UV resistant, min. 55 ShD)

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)
NA2XS2Y 12/20 kV							
1 x 35 RM/16	0.16	0.868	146	155	25.0	600	500 D, 1000 D
1 x 50 RM/16	0.18	0.641	172	185	29.1	780	500 D, 1000 D
1 x 70 RM/16	0.2	0.443	210	231	30.6	880	500 D, 1000 D
1 x 95 RM/16	0.22	0.32	251	280	32.2	990	500 D, 1000 D
1 x 120 RM/16	0.24	0.253	285	323	33.4	1090	500 D, 1000 D
1 x 150 RM/25	0.26	0.206	319	366	35.1	1280	500 D, 1000 D
1 x 185 RM/25	0.27	0.164	361	420	36.7	1430	500 D, 1000 D
1 x 240 RM/25	0.31	0.125	417	496	38.8	1630	500 D, 1000 D
1 x 400 RM/35	0.37	0.0778	535	660	43.8	2250	500 D, 1000 D