

NA2XS2Y 18/30 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:
18/30 kV (U₀/U)



Test voltage:
48 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 18/30 kV							
1 x 50 RM/16	0.14	0.641	174	187	34.1	990	500 D, 1000 D
1 x 70 RM/16	0.15	0.443	213	232	35.4	1090	500 D, 1000 D
1 x 95 RM/16	0.17	0.32	254	282	36.7	1220	500 D, 1000 D
1 x 120 RM/16	0.18	0.253	289	325	37.9	1330	500 D, 1000 D
1 x 150 RM/25	0.19	0.206	322	367	39.6	1460	500 D, 1000 D
1 x 185 RM/25	0.21	0.164	364	421	41.2	1610	500 D, 1000 D
1 x 240 RM/25	0.23	0.125	422	496	43.8	1920	500 D, 1000 D
1 x 300 RM/25	0.25	0.1	476	568	45.9	2140	500 D, 1000 D
1 x 400 RM/35	0.27	0.0778	541	659	48.8	2570	500 D