



# NA2XS(F)2Y

Medium voltage, single-core power cable with XLPE insulation, aluminum conductor, concentric screen, and PE outer sheath

## APPLICATION

Medium voltage power cable with enhanced water-blocking properties, suitable for installation indoors, outdoors, in cable ducts, directly in the ground, in water, and on cable trays. Designed for use in distribution networks, industrial facilities, switchgear, and power generation units. The UV- and mechanically resistant PE sheath and triple-layer design ensure high operational reliability and protection against partial discharges.

## CONSTRUCTION

**Conductors:** Stranded (RM) Aluminium wire, Class 2

**Conductor screen:** Semi-conductive material

**Insulation:** Cross-linked polyethylene (XLPE) DIX 8

**Insulation screen:** Semi-conductive material

**Longitudinal water blocking protection:**

swellable semi-conductive tape

**Metallic Screen:** Copper wires and Copper tape

**Longitudinal water blocking protection:** swellable tape

**Outer Sheath:** Polyethylene (PE), black

**Outer Sheath Colour:**

● Black

*Other colours available on request*

## STANDARD

HD 620, VDE 0276-620

## CERTIFICATION



## TECHNICAL CHARACTERISTICS

Electrical field control: inner and outer semiconducting layer (triple extrusion)

Screen: Copper wires + counter helix

Sheathing material: polyethylene DMP2

Sheath wall thickness: Swt in table below

Longitudinally watertight: yes

Flame-retardant: none

UV-resistant: yes

For outdoor use: yes

Max. temperature at conductor, °C: 90 °C

Permitted outer cable temperature, fixed, °C: 70 °C

Permitted outer cable temperature, moved, °C: -20- +70 °C

Min. bending radius, fixed installation: 15 x Ø

Meter mark: yes

Partial discharge: 2 pC

NA2XS(F)2Y	6/10 kV	12/20 kV	18/30 kV
Nominal voltage U <sub>o</sub>	6 kV	12 kV	18 kV
Nominal voltage U	10 kV	20 kV	30 kV
Maximum permitted operating voltage in three-phase systems	12 kV	197	30
Test voltage		24 kV	36 kV

Insulation wall thickness (mm):	
6/10 kV	3,4
12/20 kV	5,5
18/30 kV	8,0

CONSTRUCTION	S <sub>wt</sub> (min.)	6/10(12) kV		12/20(24) kV		18/30(36) kV	
		OD (approx)	WEIGHT (approx)	OD (approx)	WEIGHT (approx)	OD (approx)	WEIGHT (approx)
n x mm <sup>2</sup> / mm <sup>2</sup>	mm	mm	kg/km	mm	kg/km	mm	kg/km
1 x 50 / 16	2,1	25	630	29	780	34	1000
1 x 70 / 16	2,1	27	730	31	900	36	1130
1 x 95 / 16	2,1	28	830	32	1010	37	1260
1 x 120 / 16	2,1	30	930	34	1120	39	1380
1 x 150 / 25	2,1	31	1120	36	1250	40	1570
1 x 185 / 25	2,1	33	1260	37	1470	42	1740
1 x 240 / 25	2,1	35	1460	40	1680	44	1980
1 x 300 / 25	2,1	37	1690	42	1920	47	2220
1 x 400 / 25	2,1	40	2100	45	2360	50	2670
1 x 500 / 35	2,1	44	2480	48	2760	53	3130
1 x 630 / 35	2,1	49	2970	53	3270	58	3670
1 x 800 / 35	2,4	55	3500	60	3940	65	4370
1 x 1000 / 35	2,4	58	4200	63	4610	68	5100