

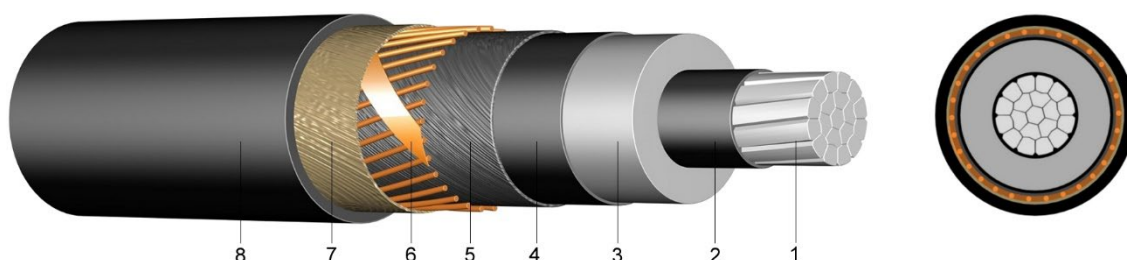
NA2XS(F)2Y

Medium voltage cable, 6/10 kV, 12/20 kV or 18/30 kV
+90 °C service temperature, single core, longitudinally watertight, UV resistant, PE sheath
DIN VDE 0276-620 and IEC 60502-2

Application

Medium voltage cable for power stations, industrial applications and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation. This cable is longitudinally water tight preventing water propagation along the cable. For fixed installation indoors and outdoors, in ground without additional protection, in water and in cable ducts if no posterior mechanical damage is to be expected.

Construction



- | | |
|---------------------------------|---|
| 1. Conductor: | Aluminium conductor, stranded (class 2) |
| 2. Inner semi-conductive layer: | Extruded semi-conductive material |
| 3. Insulation: | XLPE (cross-linked polyethylene) |
| 4. Outer semi-conductive layer: | Extruded semi-conductive material |
| 5. Separator under screen: | Semi-conductive swellable tape |
| 6. Screen: | Copper wires with helix copper tape |
| 7. Separator over screen: | Swellable tape |
| 8. Outer sheath: | PE (polyethylene), black |

Technical information

Rated voltage	U_0/U	6/10 kV	12/20 kV	18/30kV
Max. permitted operating voltage	U_{max} AC	12 kV	24 kV	36 kV
Test voltage	AC	21 kV	42 kV	63 kV
Max. permissible temperature at conductor		90 °C		
Max. short circuit temperature of the conductor		250 °C (max. 5 sec)		
Min. temperature during installation		-20 °C		
Min. bending radius mm	fixed installation	15 x outer diameter in mm		
Max. tensile load on the conductor		30 N / mm ²		

Safety parameters
Zero halogen

Additional parameters
Longitudinally water tight
UV resistant

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N° of cores and cross section mm ²	Insulation thickness approx. mm	Sheath thickness approx. mm	Outer diameter approx. mm	Current carrying capacity in ground ¹ A	Current carrying capacity in air ² A	Copper index approx. kg/km	Alu index approx. kg/km	Weight approx. kg/km
6/10 kV								
1 x 50 rm/16	3,4	2,5	25,0	171	183	182	145	630
1 x 70 rm/16	3,4	2,5	26,0	208	228	182	203	720
1 x 95 rm/16	3,4	2,5	28,0	248	278	182	276	810
1 x 120 rm/16	3,4	2,5	29,0	283	321	182	348	900
1 x 150 rm/25	3,4	2,5	31,0	315	364	283	435	1100
1 x 185 rm/25	3,4	2,5	32,0	357	418	283	537	1250
1 x 240 rm/25	3,4	2,5	35,0	413	494	283	696	1450
1 x 300 rm/25	3,4	2,5	37,0	466	568	283	870	1650
1 x 400 rm/35	3,4	2,5	40,0	529	660	394	1160	2050
1 x 500 rm/35	3,4	2,5	43,0	602	767	394	1450	2400
1 x 630 rm/35	3,4	2,6	56,0	683	889	394	1827	2850

12/20 kV								
1 x 50 rm/16	5,5	2,5	29,0	172	185	182	145	780
1 x 70 rm/16	5,5	2,5	31,0	210	231	182	203	880
1 x 95 rm/16	5,5	2,5	32,0	251	280	182	276	980
1 x 120 rm/16	5,5	2,5	33,0	285	323	182	348	1100
1 x 150 rm/25	5,5	2,5	35,0	319	366	283	435	1300
1 x 185 rm/25	5,5	2,5	36,0	361	420	283	537	1450
1 x 240 rm/25	5,5	2,5	39,0	417	496	283	696	1650
1 x 300 rm/25	5,5	2,5	41,0	471	569	283	870	1900
1 x 400 rm/35	5,5	2,5	44,0	535	660	394	1160	2300
1 x 500 rm/35	5,5	2,5	47,0	609	766	394	1450	2650
1 x 630 rm/35	5,5	2,5	51,0	691	888	394	1827	3100
1 x 800 rm/35	5,5	2,7	56,0	777	1014	394	2320	3800
1 x 1000rm/35	5,5	2,8	61,0	862	1146	394	2900	4500

18/30 kV								
1 x 50 rm/16	8,0	2,5	34,0	174	187	182	145	990
1 x 70 rm/16	8,0	2,5	36,0	213	232	182	203	1100
1 x 95 rm/16	8,0	2,5	37,0	254	282	182	276	1250
1 x 120 rm/16	8,0	2,5	38,0	289	325	182	348	1350
1 x 150 rm/25	8,0	2,5	40,0	322	367	283	435	1550
1 x 185 rm/25	8,0	2,5	42,0	364	421	283	537	1700
1 x 240 rm/25	8,0	2,5	44,0	422	496	283	696	1950
1 x 300 rm/25	8,0	2,5	46,0	476	568	283	870	2200
1 x 400 rm/35	8,0	2,5	49,0	541	659	394	1160	2600
1 x 500 rm/35	8,0	2,6	52,0	616	764	394	1450	3000
1 x 630 rm/35	8,0	2,7	56,0	701	886	394	1827	3500

Current carrying capacity: closed trefoil formation

¹ Ground temperature 20 °C; laying depth 0,7 m; soil thermal resistivity 1,0 Km/W (desiccated soil 2,5 Km/W); load factor 0,7

² Air temperature 30 °C; load factor 1,0

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La version française de cette fiche technique est disponible sur demande.
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.