

NA2XS(FL)2Y

Medium voltage cable, 6/10 kV, 12/20 kV or 18/30 kV
+90 °C service temperature, single core, longitudinally and transversely 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 suitable for unfavorable operating conditions, specifically where there is a need to avoid water penetration both crosswise and lengthwise following mechanical damage. For fixed installation indoors and outdoors, in ground without additional protection, in water and in cable ducts.

Construction



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|---------------------------------|---|
| 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: | Longitudinal aluminium foil bonded to the PE (polyethylene) sheath, 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 and transversely watertight
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	Weight approx. kg/km
6/10 kV						
1 x 50 rm/16	3,4	2,1	28,5	171	183	705
1 x 70 rm/16	3,4	2,1	30,0	208	228	800
1 x 95 rm/16	3,4	2,1	31,5	248	278	900
1 x 120 rm/16	3,4	2,1	33,0	283	321	990
1 x 150 rm/25	3,4	2,1	34,5	315	364	1185
1 x 185 rm/25	3,4	2,1	36,0	357	418	1325
1 x 240 rm/25	3,4	2,1	38,5	413	494	1525
1 x 300 rm/25	3,4	2,1	40,5	466	568	1740
1 x 400 rm/35	3,4	2,1	44,0	529	660	2160
1 x 500 rm/35	3,4	2,1	47,0	602	767	2535
1 x 630 rm/35	3,4	2,1	51,0	683	889	3030

12/20 kV						
1 x 50 rm/16	5,5	2,1	32,5	172	185	870
1 x 70 rm/16	5,5	2,1	34,5	210	231	970
1 x 95 rm/16	5,5	2,1	36,0	251	280	1085
1 x 120 rm/16	5,5	2,1	37,0	285	323	1185
1 x 150 rm/25	5,5	2,1	39,0	319	366	1385
1 x 185 rm/25	5,5	2,1	40,5	361	420	1535
1 x 240 rm/25	5,5	2,1	43,0	417	496	1760
1 x 300 rm/25	5,5	2,1	45,0	471	569	1980
1 x 400 rm/35	5,5	2,1	48,5	535	660	2425
1 x 500 rm/35	5,5	2,1	51,5	609	766	2820
1 x 630 rm/35	5,5	2,1	55,0	691	888	3340

18/30 kV						
1 x 50 rm/16	8,0	2,1	38,0	174	187	1105
1 x 70 rm/16	8,0	2,1	39,5	213	232	1215
1 x 95 rm/16	8,0	2,1	41,0	254	282	1335
1 x 120 rm/16	8,0	2,1	42,5	289	325	1450
1 x 150 rm/25	8,0	2,1	44,0	322	367	1665
1 x 185 rm/25	8,0	2,1	45,5	364	421	1830
1 x 240 rm/25	8,0	2,1	48,0	422	496	2070
1 x 300 rm/25	8,0	2,1	50,5	476	568	2335
1 x 400 rm/35	8,0	2,1	54,0	541	650	2810
1 x 500 rm/35	8,0	2,1	56,5	616	764	3200
1 x 630 rm/35	8,0	2,1	60,5	701	886	3765

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

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