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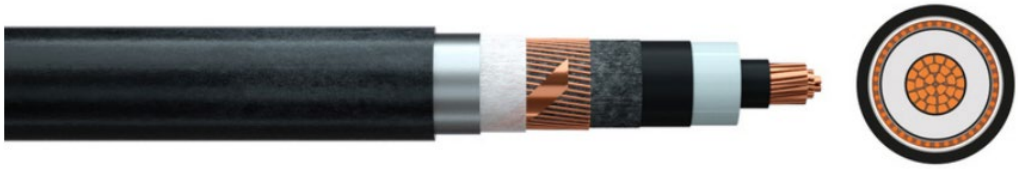
N2XS(FL)2Y

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



1.	Conductor:	Copper conductor, bare, 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		50 N / mm²		

Safety parameters

Zero halogen

Additional parameters

Longitudinally and transversely watertight
UV resistant

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N° of cores and cross section mm²	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 35 rm/16	3,4	2,1	27	187	197	861
1 x 50 rm/16	3,4	2,1	28	220	236	1150
1 x 70 rm/16	3,4	2,1	29	268	294	1300
1 x 95 rm/16	3,4	2,1	30	320	358	1450
1 x 120 rm/16	3,4	2,1	32	363	413	1900
1 x 150 rm/25	3,4	2,1	33	405	468	1997
1 x 185 rm/25	3,4	2,1	35	456	535	2463
1 x 240 rm/25	3,4	2,1	37	526	631	3050
1 x 300 rm/25	3,4	2,1	39	591	722	3720
1 x 400 rm/35	3,4	2,1	42	662	827	4500
1 x 500 rm/35	3,4	2,1	45	949	744	5878
12/20 kV						
1 x 35 rm/16	5,5	2,1	32	189	200	1050
1 x 50 rm/16	5,5	2,1	33	222	239	1170
1 x 70 rm/16	5,5	2,1	34	271	297	1470
1 x 95 rm/16	5,5	2,1	35	323	361	1900
1 x 120 rm/16	5,5	2,1	37	367	416	2260
1 x 150 rm/25	5,5	2,1	38	409	470	2318
1 x 185 rm/25	5,5	2,1	40	461	538	3045
1 x 240 rm/25	5,5	2,1	43	532	634	3700
1 x 300 rm/25	5,5	2,1	45	599	724	3940
1 x 400 rm/35	5,5	2,1	48	671	829	4850
1 x 500 rm/35	5,5	2,1	51	754	953	5948
1 x 630 rm/35	5,5	2,1	54	844	1089	7400
18/30 kV						
1 x 95 rm/16	8,0	2,1	38	327	363	1900
1 x 150 rm/25	8,0	2,1	42	414	472	2650
1 x 240 rm/25	8,0	2,1	45	539	635	3500
1 x 300 rm/25	8,0	2,1	47	606	725	4151
1 x 400 rm/35	8,0	2,1	42	680	831	5045
1 x 500 rm/35	8,0	2,1	44	765	953	5500

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.

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