

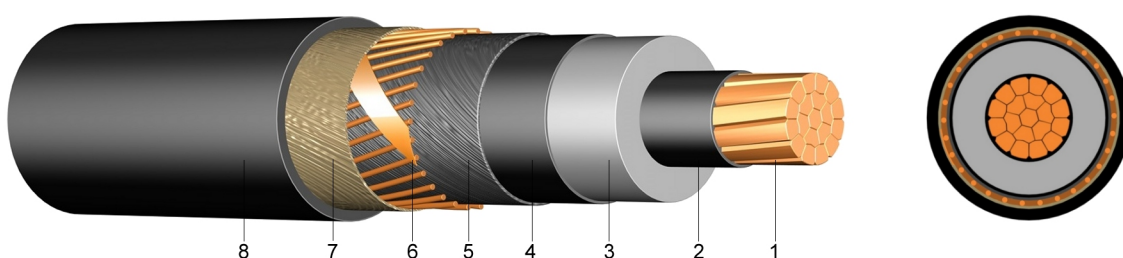
N2XS(F)2Y

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: | 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: | 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		50 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	Weight approx. kg/km
6/10 kV							
1 x 35 rm/16	3,4	2,5	24	187	197	518	820
1 x 50 rm/16	3,4	2,5	26	220	236	662	1150
1 x 70 rm/16	3,4	2,5	28	268	294	854	1400
1 x 95 rm/16	3,4	2,5	29	320	358	1094	1650
1 x 120 rm/16	3,4	2,5	30	363	413	1334	1900
1 x 150 rm/25	3,4	2,5	32	405	468	1723	2300
1 x 185 rm/25	3,4	2,5	34	456	535	2059	2650
1 x 240 rm/25	3,4	2,5	36	526	631	2587	3250
1 x 300 rm/25	3,4	2,5	39	591	722	3163	3850
1 x 400 rm/35	3,4	2,5	43	662	827	4234	4800
1 x 500 rm/35	3,4	2,5	45	949	744	5194	5900

12/20 kV							
1 x 35 rm/16	5,5	2,5	28	189	200	518	1300
1 x 50 rm/16	5,5	2,5	29	222	239	662	1350
1 x 70 rm/16	5,5	2,5	31	271	297	854	1600
1 x 95 rm/16	5,5	2,5	32	323	361	1094	1900
1 x 120 rm/16	5,5	2,5	34	367	416	1334	2150
1 x 150 rm/25	5,5	2,5	35	409	470	1723	2500
1 x 185 rm/25	5,5	2,5	37	461	538	2059	2900
1 x 240 rm/25	5,5	2,5	39	532	634	2587	3500
1 x 300 rm/25	5,5	2,5	41	599	724	3163	4150
1 x 400 rm/35	5,5	2,5	44	671	829	4234	5100
1 x 500 rm/35	5,5	2,5	47	754	953	5194	6200
1 x 630 rm/35	5,5	2,5	51	844	1089	6442	7365

18/30 kV							
1 x 50 rm/16	8,0	2,5	35	225	241	662	1650
1 x 70 rm/16	8,0	2,5	36	274	299	854	1900
1 x 95 rm/16	8,0	2,5	38	327	363	1094	2150
1 x 120 rm/16	8,0	2,5	39	371	418	1334	2450
1 x 150 rm/25	8,0	2,5	40	414	472	1723	2750
1 x 185 rm/25	8,0	2,5	42	466	539	2059	3150
1 x 240 rm/25	8,0	2,5	44	539	635	2587	3800
1 x 300 rm/25	8,0	2,5	46	606	725	3163	4400
1 x 400 rm/35	8,0	2,5	49	680	831	4234	5450
1 x 500 rm/35	8,0	2,6	53	765	953	5194	6550

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.