

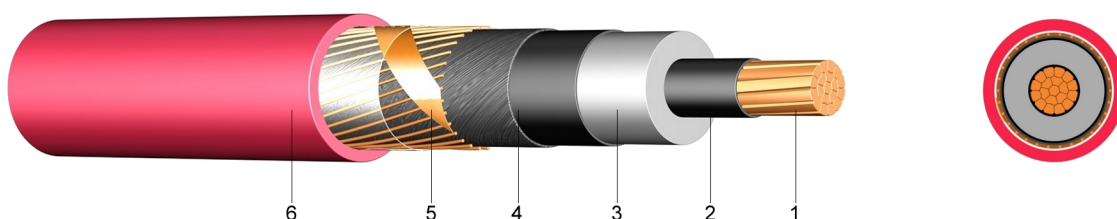
## N2XSY

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

### Application

Medium voltage cable for power stations, industrial applications and distribution networks. The good installation properties of this cable make installation easy, even on challenging routes and in difficult conditions. For fixed installation indoors and outdoors, in ground, in water and in cable ducts where mechanical damage is not expected. Outdoor laying only permitted when protected from direct sunlight and other external impacts.

### 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. Screen:                      | Copper wires with helix copper tape        |
| 6. Outer sheath:                | PVC, red                                   |

### 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		-5 °C		
Min. bending radius mm	fixed installation	15 x outer diameter in mm		
Max. tensile load on the conductor		50 N / mm <sup>2</sup>		

#### Safety parameters

Flame spread	single cable	IEC 60332-1-2
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N° of cores and cross section mm <sup>2</sup>	Insulation thickness approx. mm	Sheath thickness approx. mm	Outer diameter approx. mm	Current carrying capacity in ground <sup>1</sup> A	Current carrying capacity in air <sup>2</sup> A	Copper index approx. kg/km	Weight approx. kg/km
<b>6/10 kV</b>							
1 x 35 rm/16	3,4	2,5	23	187	197	518	880
1 x 50 rm/16	3,4	2,5	24	220	236	662	1050
1 x 70 rm/16	3,4	2,5	26	268	294	854	1250
1 x 95 rm/16	3,4	2,5	28	320	358	1094	1550
1 x 120 rm/16	3,4	2,5	29	363	413	1334	1800
1 x 150 rm/25	3,4	2,5	31	405	468	1723	2150
1 x 185 rm/25	3,4	2,5	32	456	535	2059	2500
1 x 240 rm/25	3,4	2,5	35	526	631	2587	3050
1 x 300 rm/25	3,4	2,5	37	591	722	3163	3650
1 x 400 rm/35	3,4	2,5	40	662	827	4234	4600
1 x 500 rm/35	3,4	2,5	43	949	744	5194	5600

<b>12/20 kV</b>							
1 x 35 rm/16	5,5	2,5	27	189	200	518	1050
1 x 50 rm/16	5,5	2,5	29	222	239	662	1200
1 x 70 rm/16	5,5	2,5	30	271	297	854	1450
1 x 95 rm/16	5,5	2,5	32	323	361	1094	1700
1 x 120 rm/16	5,5	2,5	33	367	416	1334	2000
1 x 150 rm/25	5,5	2,5	35	409	470	1723	2350
1 x 185 rm/25	5,5	2,5	36	461	538	2059	2750
1 x 240 rm/25	5,5	2,5	39	532	634	2587	3300
1 x 300 rm/25	5,5	2,5	41	599	724	3163	3900
1 x 400 rm/35	5,5	2,5	45	671	829	4234	4800
1 x 500 rm/35	5,5	2,5	47	754	953	5194	5900
1 x 630 rm/35	5,5	2,5	51	844	1089	6442	7300

<b>18/30 kV</b>							
1 x 50 rm/16	8,0	2,5	34	225	241	662	1450
1 x 70 rm/16	8,0	2,5	36	274	299	854	1700
1 x 95 rm/16	8,0	2,5	37	327	363	1094	2000
1 x 120 rm/16	8,0	2,5	39	371	418	1334	2250
1 x 150 rm/25	8,0	2,5	40	414	472	1723	2650
1 x 185 rm/25	8,0	2,5	42	466	539	2059	3000
1 x 240 rm/25	8,0	2,5	44	539	635	2587	3600
1 x 300 rm/25	8,0	2,5	47	606	725	3163	4250
1 x 400 rm/35	8,0	2,5	50	680	831	4234	5150
1 x 500 rm/35	8,0	2,6	53	765	953	5194	6300

Current carrying capacity: closed trefoil formation

<sup>1</sup> 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

<sup>2</sup> 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.