



INTERKABEL KYIV

## N2XS(F)2Y

Underground cable with XLPE insulation and HDPE sheath, longitudinally water-proof

### DESIGN



- 1 | Copper conductor; round stranded compressed (RM)
- 2 | Inner semi-conductive layer (conductive XLPE)
- 3 | Core insulation (XLPE)
- 4 | Outer semi-conductive layer (conductive XLPE), taped with a conductive tape
- 5 | Screen (bare copper wires) and counter helix (copper tape)
- 6 | Swelling tape under and over screen
- 7 | Sheath (HDPE black, UV-resistant)

### TECHNICAL DATA



**Standard:**  
DIN VDE 0276-620 (HD 620)



**Rated voltage:**  
6/10    12/20    18/30 kV



**Test voltage:**  
18    36    48 kV/50 Hz



**Temperature range:**  
 laying temperature:    min. -20 °C  
 operating temperature: -50 °C up to +90 °C  
 conductor temperature: max. +90 °C  
 short-circuit temperature: max. +250 °C/5 s



**Bending radius (min.):**  
15 x Ø of cable

### APPLICATION

For fixed installation for high requirements in interior premises, in the ground subject to external effects of moisture, in the open air and in cable ducts for industrial and distribution mains – as permitted by the local building regulations – under severe mechanical stressing during installation and operation.

Number and nominal cross-section of cores (mm <sup>2</sup> )	Calculated cable diameter (mm)		Calculated weight 1 km of cable (kg)		Cores' electrical resistance, in keeping with IEC 60228, no more (Om/km)	
<b>N2XS(F)2Y 6/10 kV</b>						
1 x 35 RM/16	0,24	0,524	187	197	26,0	915    500 T, 1 000 T
1 x 50 RM/16	0,26	0,387	220	236	27,0	1 120    500 T, 1 000 T
1 x 70 RM/16	0,30	0,268	268	294	28,0	1 330    500 T, 1 000 T
1 x 95 RM/16	0,31	0,193	320	358	30,0	1 620    500 T, 1 000 T
1 x 120 RM/16	0,34	0,153	363	413	32,0	1 870    500 T, 1 000 T

1) basic rated current acc. to DIN VDE 0276-620 (HD 620)  
Subject to technical changes.



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Number and nominal cross-section of cores (mm <sup>2</sup> )		Calculated cable diameter (mm)	Calculated weight 1 km of cable (kg)			Cores' electrical resistance, in keeping with with IEC 60228, no more (Om/km)	
<b>N2XS(F)2Y 6/10 kV</b>							
1 x 150 RM/25	0,39	0,124	405	468	33,0	2 260	500 T, 1 000 T
1 x 185 RM/25	0,42	0,099	456	535	35,0	2 630	500 T, 1 000 T
1 x 240 RM/25	0,47	0,075	526	631	38,0	3 220	500 T, 1 000 T
1 x 300 RM/25	0,51	0,060	591	722	40,0	3 810	500 T, 1 000 T
1 x 400 RM/35	0,57	0,047	662	827	43,0	4 850	500 T, 1 000 T
1 x 500 RM/35	0,63	0,037	744	949	46,0	5 800	500 T, 1 000 T
<b>N2XS(F)2Y 12/20 kV</b>							
1 x 35 RM/16	0,16	0,524	189	200	30,0	1 075	500 T, 1 000 T
1 x 50 RM/16	0,18	0,387	222	239	31,0	1 270	500 T, 1 000 T
1 x 70 RM/16	0,20	0,268	271	297	33,0	1 520	500 T, 1 000 T
1 x 95 RM/16	0,22	0,193	323	361	35,0	1 780	500 T, 1 000 T
1 x 120 RM/16	0,24	0,153	367	416	36,0	2 090	500 T, 1 000 T
1 x 150 RM/25	0,26	0,124	409	470	37,0	2 460	500 T, 1 000 T
1 x 185 RM/25	0,27	0,099	461	538	39,0	2 840	500 T, 1 000 T
1 x 240 RM/25	0,31	0,075	532	634	42,0	3 400	500 T, 1 000 T
1 x 300 RM/25	0,33	0,060	599	724	44,0	4 150	500 T, 1 000 T
1 x 400 RM/35	0,37	0,047	671	829	47,0	5 190	500 T, 1 000 T
1 x 500 RM/35	0,41	0,037	754	953	50,0	6 170	500 T, 1 000 T
<b>N2XS(F)2Y 18/30 kV</b>							
1 x 50 RM/16	0,14	0,387	225	241	36,0	1 520	500 T, 1 000 T
1 x 70 RM/16	0,15	0,268	274	299	38,0	1 790	500 T, 1 000 T
1 x 95 RM/16	0,17	0,193	327	363	40,0	2 070	500 T, 1 000 T
1 x 120 RM/16	0,18	0,153	371	418	41,0	2 360	500 T, 1 000 T
1 x 150 RM/25	0,19	0,124	414	472	42,0	2 760	500 T, 1 000 T
1 x 185 RM/25	0,21	0,099	466	539	44,0	3 170	500 T, 1 000 T
1 x 240 RM/25	0,23	0,075	539	635	47,0	3 860	500 T, 1 000 T
1 x 300 RM/25	0,25	0,060	606	725	49,0	4 490	500 T, 1 000 T
1 x 400 RM/35	0,27	0,047	680	831	52,0	5 580	500 T
1 x 500 RM/35	0,30	0,037	765	953	55,0	6 600	500 T

1) basic rated current acc. to DIN VDE 0276-620 (HD 620)  
Subject to technical changes.

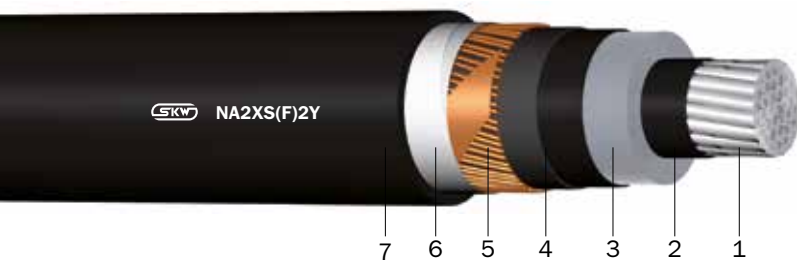


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Underground cable with XLPE insulation and HDPE sheath, longitudinally water-proof

### DESIGN



- 1 | Aluminium conductor; round stranded compressed (RM)
- 2 | Inner semi-conductive layer (conductive XLPE)
- 3 | Core insulation (XLPE)
- 4 | Outer semi-conductive layer (conductive XLPE), taped with a conductive tape
- 5 | Screen (bare copper wires) and counter helix (copper tape)
- 6 | Swelling tape under and over screen
- 7 | Sheath (HDPE black, UV-resistant)

### TECHNICAL DATA



**Standard:**  
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**Rated voltage:**  
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**Temperature range:**  
 laying temperature:    min. -20 °C  
 operating temperature: -50 °C up to +90 °C  
 conductor temperature: max. +90 °C  
 short-circuit temperature: max. +250 °C/5 s



**Bending radius (min.):**  
15 x Ø of cable

### APPLICATION

For fixed installation for high requirements in interior premises, in the ground subject to external effects of moisture, in the open air and in cable ducts for industrial and distribution mains – as permitted by the local building regulations – under severe mechanical stressing during installation and operation.

Number and nominal cross-section of cores (mm <sup>2</sup> )	Calculated cable diameter (mm)		Calculated weight 1 km of cable (kg)		Cores' electrical resistance, in keeping with IEC 60228, no more (Om/km)	
<b>NA2XS(F)2Y 6/10 kV</b>						
1 x 35 RM/16	0,24	0,868	145	153	26,0	650    500 T, 1 000 T
1 x 50 RM/16	0,26	0,641	171	183	27,0	750    500 T, 1 000 T
1 x 70 RM/16	0,30	0,443	208	228	28,0	850    500 T, 1 000 T
1 x 95 RM/16	0,31	0,320	248	278	30,0	950    500 T, 1 000 T
1 x 120 RM/16	0,34	0,253	283	321	32,0	1 100    500 T, 1 000 T

1) basic rated current acc. to DIN VDE 0276-620 (HD 620)  
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<b>NA2XS(F)2Y 6/10 kV</b>							
1 x 150 RM/25	0,39	0,206	315	364	33,0	1 300	500 T, 1 000 T
1 x 185 RM/25	0,42	0,164	357	418	35,0	1 450	500 T, 1 000 T
1 x 240 RM/25	0,47	0,125	413	494	38,0	1 600	500 T, 1 000 T
1 x 300 RM/25	0,51	0,100	466	568	40,0	1 850	500 T, 1 000 T
1 x 400 RM/35	0,57	0,078	529	660	43,0	2 350	500 T, 1 000 T
<b>NA2XS(F)2Y 12/20 kV</b>							
1 x 35 RM/16	0,16	0,868	146	155	30,0	850	500 T, 1 000 T
1 x 50 RM/16	0,18	0,641	172	185	31,0	900	500 T, 1 000 T
1 x 70 RM/16	0,20	0,443	210	231	33,0	1 050	500 T, 1 000 T
1 x 95 RM/16	0,22	0,320	251	280	35,0	1 150	500 T, 1 000 T
1 x 120 RM/16	0,24	0,253	285	323	36,0	1 300	500 T, 1 000 T
1 x 150 RM/25	0,26	0,206	319	366	37,0	1 500	500 T, 1 000 T
1 x 185 RM/25	0,27	0,164	361	420	39,0	1 650	500 T, 1 000 T
1 x 240 RM/25	0,31	0,125	417	496	42,0	1 850	500 T, 1 000 T
1 x 300 RM/25	0,33	0,100	471	569	44,0	2 100	500 T, 1 000 T
1 x 400 RM/35	0,37	0,078	535	660	47,0	2 550	500 T, 1 000 T
<b>NA2XS(F)2Y 18/30 kV</b>							
1 x 50 RM/16	0,14	0,641	174	187	36,0	1 150	500 T, 1 000 T
1 x 70 RM/16	0,15	0,443	213	232	38,0	1 300	500 T, 1 000 T
1 x 95 RM/16	0,17	0,320	254	282	40,0	1 450	500 T, 1 000 T
1 x 120 RM/16	0,18	0,253	289	325	41,0	1 550	500 T, 1 000 T
1 x 150 RM/25	0,19	0,206	322	367	42,0	1 800	500 T, 1 000 T
1 x 185 RM/25	0,21	0,164	364	421	44,0	1 950	500 T, 1 000 T
1 x 240 RM/25	0,23	0,125	422	496	47,0	2 200	500 T, 1 000 T
1 x 300 RM/25	0,25	0,100	476	568	49,0	2 500	500 T, 1 000 T
1 x 400 RM/35	0,27	0,078	541	659	52,0	3 000	500 T

1) basic rated current acc. to DIN VDE 0276-620 (HD 620)  
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operating temperature:    -20 °C up to +80 °C  
conductor temperature:    max. +90 °C  
short-circuit temperature: max. +250 °C/5 s



**Bending radius (min.):**  
15 x Ø of cable



Certification:  
UkrSepro certification in Ukraine  
VDE Germany

## N2XS(F)2Y

Number and nominal cross-section of cores (mm <sup>2</sup> )		Calculated cable diameter (mm)			Calculated weight 1 km of cable (kg)			Cores' electrical resistance, in keeping with IEC 60228, no more (Om/km)	
<b>N2XS2Y 6/10 kV</b>									
1 x 35 RM/16	0,24	0,5240	187	197	25	540	800	500 T, 1000 T	
1 x 50 RM/16	0,26	0,3870	220	236	26	690	950	500 T, 1000 T	
1 x 70 RM/16	0,30	0,2680	268	294	27	890	1.150	500 T, 1000 T	
1 x 95 RM/16	0,31	0,1930	320	358	29	1.140	1.450	500 T, 1000 T	
1 x 120 RM/16	0,34	0,1530	363	413	31	1.390	1.700	500 T, 1000 T	
1 x 150 RM/25	0,39	0,1240	405	468	32	1.795	2.050	500 T, 1000 T	
1 x 185 RM/25	0,42	0,0991	456	535	34	2.145	2.450	500 T, 1000 T	
1 x 240 RM/25	0,47	0,0754	526	631	37	2.695	3.000	500 T, 1000 T	
1 x 300 RM/25	0,51	0,0601	591	722	39	3.295	3.600	500 T, 1000 T	
1 x 400 RM/35	0,57	0,0470	662	827	42	4.410	4.500	500 T, 1000 T	
1 x 500 RM/35	0,63	0,0366	744	949	45	5.410	5.550	500 T, 1000 T	
<b>N2XS2Y 12/20 kV</b>									
1 x 35 RM/16	0,16	0,5240	189	200	29	540	950	500 T, 1000 T	
1 x 50 RM/16	0,18	0,3870	222	239	30	690	1.100	500 T, 1000 T	
1 x 70 RM/16	0,20	0,2680	271	297	32	890	1.350	500 T, 1000 T	
1 x 95 RM/16	0,22	0,1930	323	361	34	1.140	1.650	500 T, 1000 T	
1 x 120 RM/16	0,24	0,1530	367	416	35	1.390	1.900	500 T, 1000 T	
1 x 150 RM/25	0,26	0,1240	409	470	36	1.795	2.300	500 T, 1000 T	
1 x 185 RM/25	0,27	0,0991	461	538	38	2.145	2.650	500 T, 1000 T	
1 x 240 RM/25	0,31	0,0754	532	634	42	2.695	3.200	500 T, 1000 T	
1 x 300 RM/25	0,33	0,0601	599	724	43	3.295	3.850	500 T, 1000 T	
1 x 400 RM/35	0,37	0,0470	671	829	46	4.410	4.750	500 T, 1000 T	
1 x 500 RM/35	0,41	0,0366	754	953	49	5.410	5.850	500 T, 1000 T	
<b>N2XS2Y 12/20 kV</b>									
1 x 50 RM/16	0,14	0,3870	225	241	35	690	1.350	500 T, 1000 T	
1 x 70 RM/16	0,15	0,2680	274	299	37	890	1.550	500 T, 1000 T	
1 x 95 RM/16	0,17	0,1930	327	363	39	1.140	1.900	500 T, 1000 T	
1 x 120 RM/16	0,18	0,1530	371	418	40	1.390	2.150	500 T, 1000 T	
1 x 150 RM/25	0,19	0,1240	414	472	41	1.795	2.550	500 T, 1000 T	
1 x 185 RM/25	0,21	0,0991	466	539	43	2.145	2.950	500 T, 1000 T	
1 x 240 RM/25	0,23	0,0754	539	635	46	2.695	3.500	500 T, 1000 T	
1 x 300 RM/25	0,25	0,0601	606	725	48	3.295	4.150	500 T, 1000 T	
1 x 400 RM/35	0,27	0,0470	680	831	51	4.410	5.050	500 T	
1 x 500 RM/35	0,30	0,0366	765	953	54	5.410	6.200	500 T	

1) basic rated current acc. to DIN VDE 0276-620 (HD 620)  
Subject to technical changes.