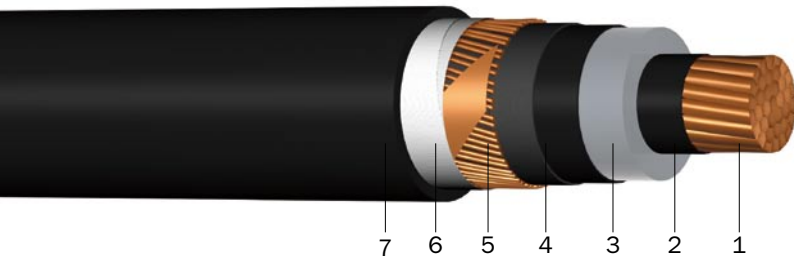


N2XS(F)2Y

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 of cores x nominal cross section/cross section of screen (mm ²)	Mutual capacitance (µF/km)	Max. conductor resistance (Ω/km)	Current rating in the ground ¹⁾ (A)	Current rating in the air ¹⁾ (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
N2XS(F)2Y 6/10 kV							
1 x 35 RM/16	0.24	0.524	187	197	26.0	915	500 D, 1,000 D
1 x 50 RM/16	0.26	0.387	220	236	27.0	1,120	500 D, 1,000 D
1 x 70 RM/16	0.30	0.268	268	294	28.0	1,330	500 D, 1,000 D
1 x 95 RM/16	0.31	0.193	320	358	30.0	1,620	500 D, 1,000 D
1 x 120 RM/16	0.34	0.153	363	413	32.0	1,870	500 D, 1,000 D
1 x 150 RM/25	0.39	0.124	405	468	33.0	2,260	500 D, 1,000 D
1 x 185 RM/25	0.42	0.099	456	535	35.0	2,630	500 D, 1,000 D
1 x 240 RM/25	0.47	0.075	526	631	38.0	3,220	500 D, 1,000 D
1 x 300 RM/25	0.51	0.060	591	722	40.0	3,810	500 D, 1,000 D
1 x 400 RM/35	0.57	0.047	662	827	43.0	4,850	500 D, 1,000 D
1 x 500 RM/35	0.63	0.037	744	949	46.0	5,800	500 D, 1,000 D

N2XS(F)2Y

Number of cores x nominal cross section/cross section of screen (mm ²)	Mutual capacitance (μF/km)	Max. conductor resistance (Ω/km)	Current rating in the ground ¹⁾ (A)	Current rating in the air ¹⁾ (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/ packing (m)
N2XS(F)2Y 12/20 kV							
1 x 35 RM/16	0.16	0.524	189	200	30.0	1,075	500 D, 1,000 D
1 x 50 RM/16	0.18	0.387	222	239	31.0	1,270	500 D, 1,000 D
1 x 70 RM/16	0.20	0.268	271	297	33.0	1,520	500 D, 1,000 D
1 x 95 RM/16	0.22	0.193	323	361	35.0	1,780	500 D, 1,000 D
1 x 120 RM/16	0.24	0.153	367	416	36.0	2,090	500 D, 1,000 D
1 x 150 RM/25	0.26	0.124	409	470	37.0	2,460	500 D, 1,000 D
1 x 185 RM/25	0.27	0.099	461	538	39.0	2,840	500 D, 1,000 D
1 x 240 RM/25	0.31	0.075	532	634	42.0	3,400	500 D, 1,000 D
1 x 300 RM/25	0.33	0.060	599	724	44.0	4,150	500 D, 1,000 D
1 x 400 RM/35	0.37	0.047	671	829	47.0	5,190	500 D, 1,000 D
1 x 500 RM/35	0.41	0.037	754	953	50.0	6,170	500 D, 1,000 D
N2XS(F)2Y 18/30 kV							
1 x 50 RM/16	0.14	0.387	225	241	36.0	1,520	500 D, 1,000 D
1 x 70 RM/16	0.15	0.268	274	299	38.0	1,790	500 D, 1,000 D
1 x 95 RM/16	0.17	0.193	327	363	40.0	2,070	500 D, 1,000 D
1 x 120 RM/16	0.18	0.153	371	418	41.0	2,360	500 D, 1,000 D
1 x 150 RM/25	0.19	0.124	414	472	42.0	2,760	500 D, 1,000 D
1 x 185 RM/25	0.21	0.099	466	539	44.0	3,170	500 D, 1,000 D
1 x 240 RM/25	0.23	0.075	539	635	47.0	3,860	500 D, 1,000 D
1 x 300 RM/25	0.25	0.060	606	725	49.0	4,490	500 D, 1,000 D
1 x 400 RM/35	0.27	0.047	680	831	52.0	5,580	500 D
1 x 500 RM/35	0.30	0.037	765	953	55.0	6,600	500 D

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