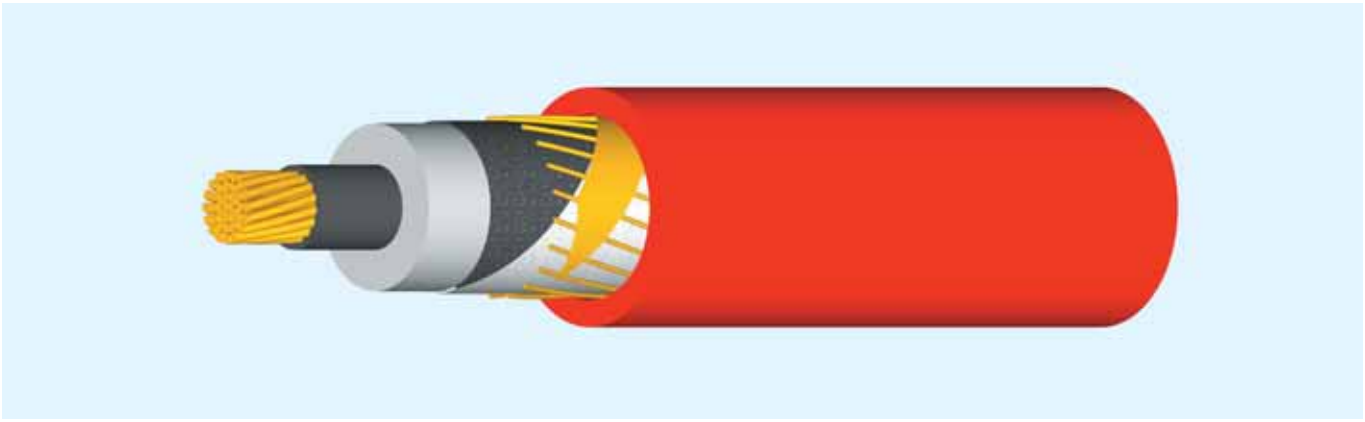
N2XSY 6/10 kV, 12/20 kV, 18/30 kV

Copper core XLPE insulated, with PVC sheath



Cable structure

- Round bare copper core, stranded according to HD 383, IEC 60228
- Inner semi-conducting coating
- Core insulation of cross-linked polyethylene (XLPE)
- Insulation thickness: 6/10 kV = 3,4 mm; 12/20 kV = 5,5 mm; 18/30 kV = 8,0 mm
- Outer semi-conducting coating spliced with the insulation
- Tape of conductive material
- Screening of copper wires with one or two copper tapes formed helically
- Wrapping with non-conducting tape
- Sheath of PVC compound, color red, sheath thickness 2,5 mm
- PVC self-extinguishing and flame retardant, according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1

Technical data

- XLPE-insulated power cable according to DIN VDE 0276 part 620, HD 620 S1 and IEC 60502
- **Temperature at conductor** max. +90 °C
- **Temperature** during installation from -5 °C to +70 °C
  after installation max. +70 °C
- **Short circuit temperature** 250 °C (up to 5 seconds)
- **Nominal voltage** U_O/U 6/10 kV, 12/20 kV, 18/30 kV
- **Operating voltages** 6/10 kV = max. 12 kV
  12/20 kV = max. 24 kV
  18/30 kV = max. 36 kV
- **Test voltage a.c.** 21 kV
- **Minimum bending radius** approx. 15× cable diam.

09

Application

Cable suitable for installation in cable ducts, power plants as well as for outer laying into earth, water or for installation in distribution boards. Due to its good shaping characteristics, this cable can also be laid even in difficult line guideways. To avoid the influence of the outer interferences, an adherent semi-conductive layer is extruded between the conductor and the insulation. We recommend the use of stripping tool for correct installation.

Note

Conforms to RoHS.

Part No.	Number of cores x core cross section [mm²]	Approx outer ∅ min. [mm]	Approx outer ∅ max. [mm]	Cooper weight [kg/km]	Approx. cable weight [kg/km]
N2XSY 6/10 kV					
0932400	1 × 35 rm/16	23	28	518	905
0932401	1 × 50 rm/16	24	29	662	1080
0932402	1 × 70 rm/16	26	31	860	1310
0932403	1 × 95 rm/16	27	32	1098	1580
0932404	1 × 120 rm/16	29	34	1340	1860
0932405	1 × 150 rm/16	30	35	1622	2040
0932406	1 × 150 rm/25	30	35	1725	2210
0932407	1 × 185 rm/16	32	37	1958	2450
0932408	1 × 185 rm/25	32	37	2059	2580
0932409	1 × 240 rm/16	34	39	2486	3000
0932410	1 × 240 rm/25	34	39	2587	3130
0932411	1 × 300 rm/25	36	41	3163	3780
0932412	1 × 400 rm/35	40	45	4234	4670
0932413	1 × 500 rm/35	43	48	5194	5750
N2XSY 12/20 kV					
0932414	1 × 35 rm/16	27	32	518	1110
0932415	1 × 50 rm/16	28	33	662	1250
0932416	1 × 70 rm/16	30	35	854	1510
0932417	1 × 95 rm/16	31	36	1094	1780
0932418	1 × 120 rm/16	33	38	1334	2070

Part No.	Number of cores x core cross section [mm²]	Approx outer ∅ min. [mm]	Approx outer ∅ max. [mm]	Cooper weight [kg/km]	Approx. cable weight [kg/km]
0932419	1 × 150 rm/16	54	39	1622	2310
0932420	1 × 150 rm/25	34	39	1723	2420
0932421	1 × 185 rm/16	36	41	1958	2650
0932422	1 × 185 rm/25	36	41	2059	2810
0932423	1 × 240 rm/16	39	44	2486	3260
0932424	1 × 240 rm/25	39	44	2587	3360
0932425	1 × 300 rm/25	41	46	3163	4020
0932426	1 × 400 rm/35	44	49	4234	4930
0932427	1 × 500 rm/35	47	52	5194	6050
N2XSY 18/30 kV					
0932428	1 × 50 rm/16	33	38	662	1480
0932429	1 × 70 rm/16	35	40	854	1730
0932430	1 × 95 rm/16	36	41	1094	2060
0932431	1 × 120 rm/16	38	43	1334	2330
0932432	1 × 150 rm/25	39	44	1723	2720
0932433	1 × 185 rm/25	41	46	2059	3100
0932434	1 × 240 rm/25	43	48	2587	3730
0932435	1 × 300 rm/25	46	51	3163	4000
0932436	1 × 400 rm/35	49	54	4234	5330
0932437	1 × 500 rm/35	52	57	5194	6480