

# N2XS2Y 6/10kV, 12/20kV, 18/30kV XLPE-insulated, Cu-conductor, single core, screened, PVC-jacket



## Technical data

- XLPE-insulated power cables to IEC 60502, DIN VDE 0276 part 620, HD 620 S1
- **Temperature range**  
during installation up to -20°C
- **Operating temperature**  
max. 90°C
- **Short circuit temperature**  
250°C (short circuit duration up to 5 sec.)
- **Nominal voltages**  
U<sub>0</sub>/U 6/10 kV, 12/20 kV, 18/30 kV
- **Operating voltages** for  
6/10 kV = max. 12 kV  
12/20 kV = max. 24 kV  
18/30 kV = max. 36 kV
- **Test voltages** for  
6/10 kV = 15 kV  
12/20 kV = 30 kV  
18/30 kV = 45 kV
- **Minimum bending radius**  
during installation max. 15x cable Ø
- **Power ratings**  
table see Technical Informations

## Cable construction

- Circular bare cu-conductor of stranded wires to HD 383
- Inner semi-conducting coating
- Core insulation of cross-linked Polyethylene (XLPE), PE-compound DIX8 to HD 620.1
- Outer extrusion of semi-conducting coating spliced with the insulation
- Wrapping of conductive material
- Screen: Braiding of copper wires with one or two tapes applied helically
- Wrapping
- PE-outer jacket black, compound DMP2 to HD 620.1
- Jacket colour black

## Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- **Installation notes**  
To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation.

## Note

- Further dimensions available on request.

## Application

Suitable for indoor installation and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switch-boards and power stations. The PE-outer jacket is resistant to high mechanical stress for laying the cables. This PE-jacket is not flame-resistant (does not conform the test method B, as per VDE 0472 part 804).

The inner conducting layer between the conductor and the XLPE insulation and the firmly bonded outer conducting layer on the XLPE insulation assures a construction free of partial discharges with high operational reliability.

Part No.	No. cores x cross-sec. mm <sup>2</sup>		Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Jacket thickness mm	Outer Ø min - max mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
32480	1 x 35	rm / 16	12	6 / 10	3,4	2,5	23,0 - 28,0	518,0	910,0	2
32481	1 x 50	rm / 16	12	6 / 10	3,4	2,5	24,0 - 29,0	662,0	990,0	1
32482	1 x 70	rm / 16	12	6 / 10	3,4	2,5	26,0 - 31,0	860,0	1205,0	2/0
32485	1 x 95	rm / 16	12	6 / 10	3,4	2,5	27,0 - 32,0	1098,0	1520,0	3/0
32484	1 x 120	rm / 16	12	6 / 10	3,4	2,5	29,0 - 34,0	1340,0	1760,0	4/0
32485	1 x 150	rm / 16	12	6 / 10	3,4	2,5	30,0 - 35,0	1622,0	2020,0	300 kcmil
32486	1 x 150	rm / 25	12	6 / 10	3,4	2,5	30,0 - 35,0	1725,0	2130,0	300 kcmil
32487	1 x 185	rm / 16	12	6 / 10	3,4	2,5	32,0 - 37,0	1958,0	2360,0	350 kcmil
32488	1 x 185	rm / 25	12	6 / 10	3,4	2,5	32,0 - 37,0	2059,0	2470,0	350 kcmil
32489	1 x 240	rm / 16	12	6 / 10	3,4	2,5	34,0 - 39,0	2486,0	2960,0	500 kcmil
32490	1 x 240	rm / 25	12	6 / 10	3,4	2,5	34,0 - 39,0	2587,0	3020,0	500 kcmil
32491	1 x 300	rm / 25	12	6 / 10	3,4	2,5	36,0 - 41,0	3163,0	3630,0	600 kcmil
32492	1 x 400	rm / 35	12	6 / 10	3,4	2,5	40,0 - 45,0	4234,0	4560,0	750 kcmil
32495	1 x 500	rm / 35	12	6 / 10	3,4	2,5	43,0 - 48,0	5194,0	5580,0	1000 kcmil
32494	1 x 35	rm / 16	24	12 / 20	5,5	2,5	27,0 - 28,0	518,0	960,0	2
32495	1 x 50	rm / 16	24	12 / 20	5,5	2,5	28,0 - 29,0	662,0	1160,0	1
32496	1 x 70	rm / 16	24	12 / 20	5,5	2,5	30,0 - 31,0	854,0	1410,0	2/0
32497	1 x 95	rm / 16	24	12 / 20	5,5	2,5	31,0 - 32,0	1094,0	1670,0	3/0
32498	1 x 120	rm / 16	24	12 / 20	5,5	2,5	33,0 - 34,0	1334,0	1960,0	4/0
32500	1 x 150	rm / 25	24	12 / 20	5,5	2,5	34,0 - 35,0	1723,0	2310,0	300 kcmil
32499	1 x 150	rm / 16	24	12 / 20	5,5	2,5	34,0 - 35,0	1622,0	2220,0	300 kcmil
32502	1 x 185	rm / 25	24	12 / 20	5,5	2,5	36,0 - 37,0	2059,0	2670,0	350 kcmil
32501	1 x 185	rm / 16	24	12 / 20	5,5	2,5	36,0 - 37,0	1958,0	2620,0	350 kcmil
32504	1 x 240	rm / 25	24	12 / 20	5,5	2,5	39,0 - 39,0	2587,0	3270,0	500 kcmil
32503	1 x 240	rm / 16	24	12 / 20	5,5	2,5	39,0 - 39,0	2486,0	3160,0	500 kcmil
32505	1 x 300	rm / 25	24	12 / 20	5,5	2,5	41,0 - 41,0	3163,0	3880,0	600 kcmil
32506	1 x 400	rm / 35	24	12 / 20	5,5	2,5	44,0 - 45,0	4234,0	4820,0	750 kcmil
32507	1 x 500	rm / 35	24	12 / 20	5,5	2,5	47,0 - 48,0	5194,0	5860,0	1000 kcmil

Dimensions and specifications may be changed without prior notice.

Continuation ▶

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Part No.	No. cores x cross-sec. mm <sup>2</sup>	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Jacket thickness mm	Outer ø min - max mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.	
32508	1 x 50	rm / 16	36	18 / 30	8,0	2,5	33,0 - 38,0	662,0	1410,0	1
32509	1 x 70	rm / 16	36	18 / 30	8,0	2,5	35,0 - 40,0	854,0	1660,0	2/0
32510	1 x 95	rm / 16	36	18 / 30	8,0	2,5	36,0 - 41,0	1094,0	1970,0	3/0
32511	1 x 120	rm / 16	36	18 / 30	8,0	2,5	38,0 - 43,0	1334,0	2220,0	4/0
32512	1 x 150	rm / 25	36	18 / 30	8,0	2,5	39,0 - 44,0	1723,0	2650,0	300 kcmil
32513	1 x 185	rm / 25	36	18 / 30	8,0	2,5	41,0 - 46,0	2059,0	2980,0	350 kcmil
32514	1 x 240	rm / 25	36	18 / 30	8,0	2,5	43,0 - 48,0	2587,0	3570,0	500 kcmil
32515	1 x 300	rm / 25	36	18 / 30	8,0	2,5	46,0 - 51,0	3163,0	4220,0	600 kcmil
32516	1 x 400	rm / 35	36	18 / 30	8,0	2,5	49,0 - 54,0	4234,0	5170,0	750 kcmil
32517	1 x 500	rm / 35	36	18 / 30	8,0	2,5	52,0 - 57,0	5194,0	6260,0	1000 kcmil

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