

N2XSY 6/10kV, 12/20kV, 18/30kV XLPE-insulated, Cu-conductor, single core, screened, PVC-jacket



Technical data

- XLPE-insulated power cables to DIN VDE 0276 part 620, HD 620 S1 and IEC 60502
- **Temperature range**
during installation up to -5°C
- **Operating temperature**
max. 90°C
- **Short circuit temperature**
250°C (short circuit duration up to 5 sec.)
- **Nominal voltages**
U₀/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 tape(s) applied helically
- Wrapping
- PVC outer jacket, compound DMV6 to HD 620.1
- Jacket colour red

Properties

- self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- 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 installation mostly for power supply stations, in indoors and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switch-boards and power stations. Due to the good laying characteristic, this can also be laid easily in difficult line guideways.

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 ²		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.
32400	1 x 35	rm / 16	12	6 / 10	3,4	2,5	23,0 - 28,0	518,0	905,0	2
32401	1 x 50	rm / 16	12	6 / 10	3,4	2,5	24,0 - 29,0	662,0	1080,0	1
32402	1 x 70	rm / 16	12	6 / 10	3,4	2,5	26,0 - 31,0	854,0	1310,0	2/0
32403	1 x 95	rm / 16	12	6 / 10	3,4	2,5	27,0 - 32,0	1094,0	1580,0	3/0
32404	1 x 120	rm / 16	12	6 / 10	3,4	2,5	29,0 - 34,0	1340,0	1860,0	4/0
32406	1 x 150	rm / 25	12	6 / 10	3,4	2,5	30,0 - 35,0	1622,0	2210,0	300 kcmil
32405	1 x 150	rm / 16	12	6 / 10	3,4	2,5	30,0 - 35,0	1723,0	2040,0	300 kcmil
32407	1 x 185	rm / 16	12	6 / 10	3,4	2,5	32,0 - 37,0	1958,0	2450,0	350 kcmil
32408	1 x 185	rm / 25	12	6 / 10	3,4	2,5	32,0 - 37,0	2059,0	2580,0	350 kcmil
32409	1 x 240	rm / 16	12	6 / 10	3,4	2,5	34,0 - 39,0	2486,0	3000,0	500 kcmil
32410	1 x 240	rm / 25	12	6 / 10	3,4	2,5	34,0 - 39,0	2587,0	3130,0	500 kcmil
32411	1 x 300	rm / 25	12	6 / 10	3,4	2,5	36,0 - 41,0	3163,0	3780,0	600 kcmil
32412	1 x 400	rm / 35	12	6 / 10	3,4	2,5	40,0 - 45,0	4234,0	4670,0	750 kcmil
32413	1 x 500	rm / 35	12	6 / 10	3,4	2,5	43,0 - 48,0	5194,0	5750,0	1000 kcmil
32414	1 x 35	rm / 16	24	12 / 20	5,5	2,5	27,0 - 32,0	518,0	1110,0	2
32415	1 x 50	rm / 16	24	12 / 20	5,5	2,5	28,0 - 33,0	662,0	1250,0	1
32416	1 x 70	rm / 16	24	12 / 20	5,5	2,5	30,0 - 35,0	854,0	1510,0	2/0
32417	1 x 95	rm / 16	24	12 / 20	5,5	2,5	31,0 - 36,0	1094,0	1780,0	3/0
32418	1 x 120	rm / 16	24	12 / 20	5,5	2,5	33,0 - 38,0	1334,0	2070,0	4/0
32420	1 x 150	rm / 25	24	12 / 20	5,5	2,5	34,0 - 39,0	1723,0	2420,0	300 kcmil
32419	1 x 150	rm / 16	24	12 / 20	5,5	2,5	34,0 - 39,0	1622,0	2310,0	300 kcmil
32422	1 x 185	rm / 25	24	12 / 20	5,5	2,5	36,0 - 41,0	2059,0	2810,0	350 kcmil
32421	1 x 185	rm / 16	24	12 / 20	5,5	2,5	36,0 - 41,0	1958,0	2650,0	350 kcmil
32423	1 x 240	rm / 16	24	12 / 20	5,5	2,5	39,0 - 44,0	2486,0	3260,0	500 kcmil
32424	1 x 240	rm / 25	24	12 / 20	5,5	2,5	39,0 - 44,0	2587,0	3360,0	500 kcmil
32425	1 x 300	rm / 25	24	12 / 20	5,5	2,5	41,0 - 46,0	3163,0	4020,0	600 kcmil
32426	1 x 400	rm / 35	24	12 / 20	5,5	2,5	44,0 - 49,0	4234,0	4930,0	750 kcmil
32427	1 x 500	rm / 35	24	12 / 20	5,5	2,5	47,0 - 52,0	5194,0	6050,0	1000 kcmil

Dimensions and specifications may be changed without prior notice.

Continuation ►

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Part No.	No. cores x cross-sec. mm ²		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.
32428	1 x 50	rm / 16	36	18 / 30	8,0	2,5	33,0 - 38,0	662,0	1480,0	1
32429	1 x 70	rm / 16	36	18 / 30	8,0	2,5	35,0 - 40,0	854,0	1730,0	2/0
32430	1 x 95	rm / 16	36	18 / 30	8,0	2,5	36,0 - 41,0	1094,0	2060,0	3/0
32431	1 x 120	rm / 16	36	18 / 30	8,0	2,5	38,0 - 43,0	1334,0	2330,0	4/0
32432	1 x 150	rm / 25	36	18 / 30	8,0	2,5	39,0 - 44,0	1723,0	2720,0	300 kcmil
32433	1 x 185	rm / 25	36	18 / 30	8,0	2,5	41,0 - 46,0	2059,0	3100,0	350 kcmil
32434	1 x 240	rm / 25	36	18 / 30	8,0	2,5	43,0 - 48,0	2587,0	3730,0	500 kcmil
32435	1 x 300	rm / 25	36	18 / 30	8,0	2,5	46,0 - 51,0	3163,0	4000,0	600 kcmil
32436	1 x 400	rm / 35	36	18 / 30	8,0	2,5	49,0 - 54,0	4234,0	5330,0	750 kcmil
32437	1 x 500	rm / 35	36	18 / 30	8,0	2,5	52,0 - 57,0	5194,0	6480,0	1000 kcmil

Dimensions and specifications may be changed without prior notice.