

NA2XS_Y 6/10kV, 12/20kV, 18/30kV XLPE-insulated, alu-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** see Technical Informations

Cable construction

- Circular bare alu-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
- 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	Alu weight kg / km	Weight ca. kg / km	AWG-No.
32440	1 x 50 rm / 16	12	6 / 10	3,4	2,5	24,0 - 29,0	182,0	145,0	780,0	1
32441	1 x 70 rm / 16	12	6 / 10	3,4	2,5	26,0 - 31,0	182,0	203,0	875,0	2/0
32442	1 x 95 rm / 16	12	6 / 10	3,4	2,5	27,0 - 32,0	182,0	276,0	990,0	3/0
32443	1 x 120 rm / 16	12	6 / 10	3,4	2,5	29,0 - 34,0	182,0	348,0	1110,0	4/0
32444	1 x 150 rm / 16	12	6 / 10	3,4	2,5	30,0 - 35,0	182,0	435,0	1240,0	300 kcmil
32445	1 x 150 rm / 25	12	6 / 10	3,4	2,5	30,0 - 35,0	283,0	435,0	1310,0	300 kcmil
32447	1 x 185 rm / 25	12	6 / 10	3,4	2,5	32,0 - 37,0	283,0	537,0	1460,0	350 kcmil
32446	1 x 185 rm / 16	12	6 / 10	3,4	2,5	32,0 - 37,0	182,0	537,0	1405,0	350 kcmil
32449	1 x 240 rm / 25	12	6 / 10	3,4	2,5	34,0 - 39,0	283,0	696,0	1660,0	500 kcmil
32448	1 x 240 rm / 16	12	6 / 10	3,4	2,5	34,0 - 39,0	182,0	696,0	1615,0	500 kcmil
32450	1 x 300 rm / 25	12	6 / 10	3,4	2,5	36,0 - 41,0	283,0	870,0	1910,0	600 kcmil
32451	1 x 400 rm / 35	12	6 / 10	3,4	2,5	40,0 - 45,0	394,0	1160,0	2315,0	750 kcmil
32452	1 x 500 rm / 35	12	6 / 10	3,4	2,5	43,0 - 48,0	394,0	1450,0	2750,0	1000 kcmil
32453	1 x 50 rm / 16	24	12 / 20	5,5	2,5	28,0 - 33,0	182,0	145,0	950,0	1
32454	1 x 70 rm / 16	24	12 / 20	5,5	2,5	30,0 - 35,0	182,0	203,0	1110,0	2/0
32455	1 x 95 rm / 16	24	12 / 20	5,5	2,5	31,0 - 36,0	182,0	276,0	1220,0	3/0
32456	1 x 120 rm / 16	24	12 / 20	5,5	2,5	33,0 - 38,0	182,0	348,0	1310,0	4/0
32457	1 x 150 rm / 16	24	12 / 20	5,5	2,5	34,0 - 39,0	182,0	435,0	1460,0	300 kcmil
32458	1 x 150 rm / 25	24	12 / 20	5,5	2,5	34,0 - 39,0	283,0	435,0	1520,0	300 kcmil
32459	1 x 185 rm / 16	24	12 / 20	5,5	2,5	36,0 - 41,0	182,0	537,0	1660,0	350 kcmil
32460	1 x 185 rm / 25	24	12 / 20	5,5	2,5	36,0 - 41,0	283,0	537,0	1720,0	350 kcmil
32462	1 x 240 rm / 25	24	12 / 20	5,5	2,5	39,0 - 44,0	283,0	696,0	1910,0	500 kcmil
32461	1 x 240 rm / 16	24	12 / 20	5,5	2,5	39,0 - 44,0	182,0	696,0	1860,0	500 kcmil
32463	1 x 300 rm / 25	24	12 / 20	5,5	2,5	41,0 - 46,0	283,0	870,0	2220,0	600 kcmil
32464	1 x 400 rm / 35	24	12 / 20	5,5	2,5	44,0 - 49,0	394,0	1160,0	2620,0	750 kcmil
32465	1 x 500 rm / 35	24	12 / 20	5,5	2,5	47,0 - 52,0	394,0	1450,0	3030,0	1000 kcmil

Dimensions and specifications may be changed without prior notice.

Continuation ▶

NA2XSY 6/10kV, 12/20kV, 18/30kV XLPE-insulated, alu-conductor, single core, screened, PVC-jacket



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	Alu weight kg / km	Weight ca. kg / km	AWG-No.	
32466	1 x 50	rm / 16	36	18 / 30	8,0	2,5	33,0 - 38,0	182,0	145,0	1260,0	1
32467	1 x 70	rm / 16	36	18 / 30	8,0	2,5	35,0 - 40,0	182,0	203,0	1360,0	2/0
32468	1 x 95	rm / 16	36	18 / 30	8,0	2,5	36,0 - 41,0	182,0	276,0	1510,0	3/0
32469	1 x 120	rm / 16	36	18 / 30	8,0	2,5	38,0 - 43,0	182,0	348,0	1610,0	4/0
32471	1 x 150	rm / 25	36	18 / 30	8,0	2,5	39,0 - 44,0	283,0	435,0	1810,0	300 kcmil
32470	1 x 150	rm / 16	36	18 / 30	8,0	2,5	39,0 - 44,0	182,0	435,0	1760,0	300 kcmil
32472	1 x 185	rm / 16	36	18 / 30	8,0	2,5	41,0 - 46,0	182,0	537,0	1960,0	350 kcmil
32473	1 x 185	rm / 25	36	18 / 30	8,0	2,5	41,0 - 46,0	283,0	537,0	2020,0	350 kcmil
32475	1 x 240	rm / 25	36	18 / 30	8,0	2,5	43,0 - 48,0	283,0	696,0	2260,0	500 kcmil
32474	1 x 240	rm / 16	36	18 / 30	8,0	2,5	43,0 - 48,0	182,0	696,0	2210,0	500 kcmil
32476	1 x 300	rm / 25	36	18 / 30	8,0	2,5	46,0 - 51,0	283,0	870,0	2560,0	600 kcmil
32477	1 x 400	rm / 35	36	18 / 30	8,0	2,5	49,0 - 54,0	394,0	1160,0	2960,0	750 kcmil
32478	1 x 500	rm / 35	36	18 / 30	8,0	2,6	52,0 - 57,0	394,0	1450,0	3460,0	1000 kcmil

Dimensions and specifications may be changed without prior notice.