

NA2XS(F)2Y 6/10kV, 12/20kV, 18/30kV

XLPE-insulated, alu-conductor, single core, longitudinally water-tight, 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 -20°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 alu-conductor of stranded wires to DIN VDE 0295 cl. 2 and IEC 60228 cl. 2
- 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 XLPE-insulation
- Longitudinally water-tight, conductive wrapping
- Screen: Braiding of copper wires with one or two tapes applied helically
- Longitudinally water-tight wrapping
- PE-outer jacket, compound DMP2 to HD 620.1
- Jacket colour black
- Jacket thickness voltage 2,5 mm

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

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- For longitudinally and crosswise water-tight cable type NA2XS(FL)2Y with PE-copolymers coated aluminium.
- Further types and dimensions 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 ² | | Operation voltage max. | Nominal voltage kV | Insulation thickness mm | Screen cross-sec. mm ² | Outer ø ca. mm | Cop. weight kg / km | Alu weight kg / km | Weight ca. kg / km | AWG-No. |
|----------|--|---------|------------------------|--------------------|-------------------------|-----------------------------------|----------------|---------------------|--------------------|--------------------|------------|
| 32600 | 1 x 35 | rm / 16 | 12 | 6 / 10 | 3,4 | 16,0 | 26,0 | 182,0 | 102,0 | 780,0 | 2 |
| 32601 | 1 x 50 | rm / 16 | 12 | 6 / 10 | 3,4 | 16,0 | 28,0 | 182,0 | 145,0 | 850,0 | 1 |
| 32602 | 1 x 70 | rm / 16 | 12 | 6 / 10 | 3,4 | 16,0 | 30,0 | 182,0 | 203,0 | 980,0 | 2/0 |
| 32603 | 1 x 95 | rm / 16 | 12 | 6 / 10 | 3,4 | 16,0 | 31,0 | 182,0 | 276,0 | 1080,0 | 3/0 |
| 32604 | 1 x 120 | rm / 16 | 12 | 6 / 10 | 3,4 | 16,0 | 32,0 | 182,0 | 348,0 | 1150,0 | 4/0 |
| 32605 | 1 x 150 | rm / 25 | 12 | 6 / 10 | 3,4 | 25,0 | 34,0 | 283,0 | 435,0 | 1280,0 | 300 kcmil |
| 32606 | 1 x 185 | rm / 25 | 12 | 6 / 10 | 3,4 | 25,0 | 36,0 | 283,0 | 537,0 | 1420,0 | 350 kcmil |
| 32607 | 1 x 240 | rm / 25 | 12 | 6 / 10 | 3,4 | 25,0 | 38,0 | 283,0 | 696,0 | 1630,0 | 500 kcmil |
| 32608 | 1 x 300 | rm / 25 | 12 | 6 / 10 | 3,4 | 25,0 | 40,0 | 283,0 | 870,0 | 1950,0 | 600 kcmil |
| 32609 | 1 x 400 | rm / 35 | 12 | 6 / 10 | 3,4 | 35,0 | 44,0 | 394,0 | 1160,0 | 2350,0 | 750 kcmil |
| 32610 | 1 x 500 | rm / 35 | 12 | 6 / 10 | 3,4 | 35,0 | 47,0 | 394,0 | 1450,0 | 2780,0 | 1000 kcmil |
| 32611 | 1 x 50 | rm / 16 | 24 | 12 / 20 | 5,5 | 16,0 | 33,0 | 182,0 | 145,0 | 920,0 | 1 |
| 32612 | 1 x 70 | rm / 16 | 24 | 12 / 20 | 5,5 | 16,0 | 34,0 | 182,0 | 203,0 | 1030,0 | 2/0 |
| 32613 | 1 x 95 | rm / 16 | 24 | 12 / 20 | 5,5 | 16,0 | 36,0 | 182,0 | 276,0 | 1140,0 | 3/0 |
| 32614 | 1 x 120 | rm / 16 | 24 | 12 / 20 | 5,5 | 16,0 | 37,0 | 182,0 | 348,0 | 1250,0 | 4/0 |
| 32615 | 1 x 150 | rm / 25 | 24 | 12 / 20 | 5,5 | 25,0 | 39,0 | 283,0 | 435,0 | 1320,0 | 300 kcmil |
| 32616 | 1 x 185 | rm / 25 | 24 | 12 / 20 | 5,5 | 25,0 | 41,0 | 283,0 | 537,0 | 1570,0 | 350 kcmil |
| 32617 | 1 x 240 | rm / 25 | 24 | 12 / 20 | 5,5 | 25,0 | 43,0 | 283,0 | 696,0 | 1780,0 | 500 kcmil |
| 32618 | 1 x 300 | rm / 25 | 24 | 12 / 20 | 5,5 | 25,0 | 45,0 | 283,0 | 870,0 | 2100,0 | 600 kcmil |
| 32619 | 1 x 400 | rm / 35 | 24 | 12 / 20 | 5,5 | 35,0 | 48,0 | 394,0 | 1160,0 | 2480,0 | 750 kcmil |
| 32620 | 1 x 500 | rm / 35 | 24 | 12 / 20 | 5,5 | 35,0 | 52,0 | 394,0 | 1450,0 | 2900,0 | 1000 kcmil |

Dimensions and specifications may be changed without prior notice.

Continuation ►

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| Part No. | No. cores x cross-sec. mm² | | Operation voltage max. | Nominal voltage kV | Insulation thickness mm | Screen cross-sec. mm² | Outer ø ca. mm | Cop. weight kg / km | Alu weight kg / km | Weight ca. kg / km | AWG-No. |
|----------|----------------------------|---------|------------------------|--------------------|-------------------------|-----------------------|----------------|---------------------|--------------------|--------------------|------------|
| 32621 | 1 x 50 | rm / 16 | 36 | 18 / 30 | 8,0 | 16,0 | 37,0 | 182,0 | 145,0 | 1250,0 | 1 |
| 32622 | 1 x 70 | rm / 16 | 36 | 18 / 30 | 8,0 | 16,0 | 38,0 | 182,0 | 203,0 | 1500,0 | 2/0 |
| 32623 | 1 x 95 | rm / 16 | 36 | 18 / 30 | 8,0 | 16,0 | 40,0 | 182,0 | 276,0 | 1700,0 | 3/0 |
| 32624 | 1 x 120 | rm / 16 | 36 | 18 / 30 | 8,0 | 16,0 | 42,0 | 182,0 | 348,0 | 1800,0 | 4/0 |
| 32625 | 1 x 150 | rm / 25 | 36 | 18 / 30 | 8,0 | 25,0 | 43,0 | 283,0 | 435,0 | 2050,0 | 300 kcmil |
| 32626 | 1 x 185 | rm / 25 | 36 | 18 / 30 | 8,0 | 25,0 | 45,0 | 283,0 | 537,0 | 2150,0 | 350 kcmil |
| 32627 | 1 x 240 | rm / 25 | 36 | 18 / 30 | 8,0 | 25,0 | 47,0 | 283,0 | 696,0 | 2400,0 | 500 kcmil |
| 32628 | 1 x 300 | rm / 25 | 36 | 18 / 30 | 8,0 | 25,0 | 50,0 | 283,0 | 870,0 | 2700,0 | 600 kcmil |
| 32629 | 1 x 400 | rm / 35 | 36 | 18 / 30 | 8,0 | 35,0 | 53,0 | 394,0 | 1160,0 | 3200,0 | 750 kcmil |
| 32630 | 1 x 500 | rm / 35 | 36 | 18 / 30 | 8,0 | 35,0 | 56,0 | 394,0 | 1450,0 | 3550,0 | 1000 kcmil |

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