



NA2XS(F)2Y 6/10 kV 1x120RM/25 SM CEI 60502-2:2016, HD 620-10E:2010

Power cables with aluminium conductors, with XLPE, longitudinal screen sealing and polyethylene outer sheath

For the cable of this mark correspond the foreign-made analogues:

NA2XS2Y (DE) • NA2XS(F)2Y (DE) • A2XS2Y (DE) • A2XS(F)2Y (DE) • Al/XLPE/CWS/MDPE (GB) • XUHAkXS (PL) • XHAkXS (PL) • АПвПг (RU) • АПвП (RU)

Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- *in soil (trenches)*
- *in the air, including cable structures, if provided the additional fire protection*

Manufacturing of cables with extruded semiconductor layer along outer sheath is possible

Manufacturing of cable with single-wire conductor is possible

It is possible to manufacture cable with sealed conductor

Supply of three stranded single-core cables. Order entry example:

3xАПвЭгП-10 1x120

TECHNICAL SPECIFICATIONS:

| | | |
|--|-----------------|------------------------|
| Rated voltage | kV | 10 |
| Maximum voltage | kV | 12 |
| Number and rated area of conductors | mm ² | 1 x 120 |
| Insulation thickness | mm | 3.4 |
| Minimum screen cross-section | mm ² | 16 |
| Permissible short circuit current across the screen of minimum cross-section | kA | 3.3 |
| Maximum permissible short-circuit current in core | kA | 11.3 |
| Permissible continuous current rating * | | |
| • <i>by aerial laying in trefoil formation</i> | A | 324 |
| • <i>by aerial flat laying</i> | A | 391 |
| • <i>by burial in trefoil formation</i> | A | 252 |
| • <i>by burial flat</i> | A | 260 |
| Partial discharge factor for rated voltage, not more than | pC | 6 |
| Maximum permissible conductor temperature | | |
| • <i>Continuous</i> | °C | +90 |
| • <i>in emergency operation</i> | °C | +130 |
| • <i>at short circuit</i> | °C | +250 |
| Operating temperature range | °C | -60 ... +50 |
| Minimum bending radius by laying | mm | 528 |
| Rated outer diameter of the cable (for reference) ** | mm | 33 |
| Cable weight (approximate) | kg/km | 920 |
| Rated factory cable length and gross weight of the delivery on the drums | m, t | # 18аУД-40: 1365 • 1.8 |

Notes:

When ordering it is necessary to agree the factory length of the product with the manufacturer

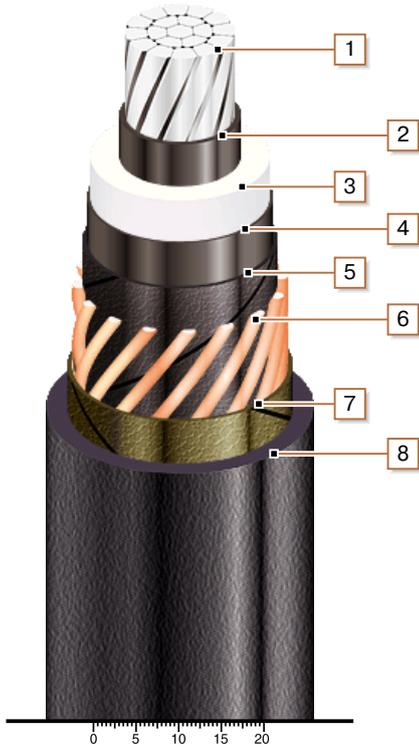
* Long permissible current loads are calculated for the following conditions: conductor temperature 90 °C, air temperature 30 °C, soil temperature 20 °C, thermal resistivity of soil 1.5 °K·m/W, laying depth in the soil 0.8 m, while laying in flat formation the distance between cables in clear is equal to the cable diameter, while laying in trefoil formation cables are laid side by side, shields are earthed on both ends of the line

** The external diameter may differ from the rated up to ± 10 %



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CONSTRUCTION:

1. Aluminium multiwire compacted conductor
2. Inner extruded semiconducting layer
3. XLPE insulation
4. Outer extruded semiconducting layer
5. Lapping layer of semiconductive swellable tape
6. Copper screen
7. Lapping layer of nonwoven cloth tape
8. Outer sheath of polyethylene or polyethylene copolymer