**СБПАуБпШп 12х2х1**
ТУ У 31.3-00214534-008-2001

Signal blocking cables with copper conductors, with polyethylene insulation, in reinforced aluminium sheath, with double-steel-tape armouring, in polyethylene hose

Designed for electrical installations of railway signaling, centralization, blocking and automation at a rated voltage of 380 V AC at frequency 50 Hz or 700 V DC

Cables are used for laying:

- *in soil*
- *for increased protection of circuits against external electrical influences*
- *in places, where small mechanical impacts on cable are possible, including tensile forces*

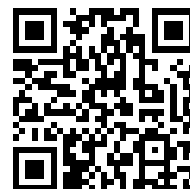
TECHNICAL SPECIFICATIONS

| | | |
|---|--------|-------------------------------------|
| Rated voltage | V | 380 / 700 |
| Number of pairs and nominal conductor diameter | | 12 x 1 |
| Electrical resistance of the conductor at 20 °C | Ohm/km | 28.8 |
| Operating capacity, not more than | nF/km | 100.0 |
| Attenuation coefficient of pairs at a temperature of 20 °C, not more than | dB/km | 0.94 |
| Coupling losses on near-end of cable between any pairs over a length of 300 m, not less than: | | |
| • <i>for 100% of the values</i> | dB | 60.0 |
| • <i>for 80% of the values</i> | dB | 62.0 |
| Protective action coefficient of aluminium sheath at longitudinal EMF of 30 V/ km, not more than: | | 0.1 |
| Operating temperature range | °C | -50 ... +60 |
| Minimum bending radius by laying | mm | 396 |
| Cable outer diameter (for reference only) ** | mm | 33 |
| Cable weight (approximate) | kg/km | 1423 |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t | # 14: 540 • 1.0 # 16a: 870 • 1.5 |

Notes:

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

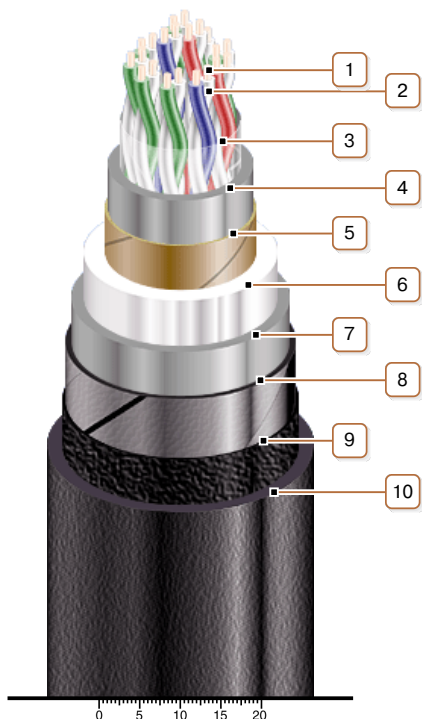
** The external diameter may differ from the rated up to $\pm 10\%$



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CONSTRUCTION



1. Copper conductor
2. Polyethylene insulation
3. PET film winding
4. Polyethylene inner sheath
5. Paper core wrapping
6. Strengthened aluminium sheath
7. Pressed polyethylene bedding
8. Double steel-tape armour
9. Bitumen layer
10. Polyethylene protection hose

Note: Pair twisting in the layer of core on the picture not shown.