

## **СБВБШвнгд 12х2х1 ТУ У 31.3-00214534-008-2001**

Signal blocking cables with copper conductors, with polyethylene insulation, in PVC compound sheath, with low smoke and corrosive gas emission, with galvanized double-steel-tape armouring, in PVC compound hose with low smoke and corrosive gas emission

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

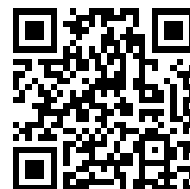
Cables are used for laying:

- *in bunches*
- *in dry cable duct system, tunnels, collectors in corrosive environment*
- *at the sites, where, along with the requirements for flame retardance are specified requirements for low smoke and gas emission at combustion or smoldering*
- *in places, where small mechanical impacts on cable are possible, including tensile forces*

Fire safety code in accordance with ДСТУ 4809:2007: ПБ123121000

Products of this mark meet the requirements:

- *single wire cable flame retardance*
- *bunched cable flame retardance category A*
- *toxicity class Tk3 of the combustion products of nonmetallic elements (toxicity index over 120 g/m<sup>3</sup>)*
- *class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)*
- *class ДПк2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)*
- *corrosive class Кк1 of combustion products of non-metallic elements (the number of halogen hydrides less than 150 mg/g, pH less than 4.3, specific conductivity more than 10 μS/mm)*



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### 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: |        |                  |
| • for 100% of the values  | dB     | 60.0             |
| • for 80% of the values   | dB     | 62.0             |
| Operating temperature range   | °C     | -40 ... +60      |
| Minimum bending radius by laying  | mm     | 264              |
| Cable outer diameter (for reference only) **  | mm     | 22               |
| Cable weight (approximate)  | kg/km  | 704              |
| Rated factory cable length and gross weight of the delivery on the drums ***                  | m, t   | # 14: 1300 • 1.1 |

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  $\pm 10\%$

### CONSTRUCTION

1. Copper conductor
2. Polyethylene insulation
3. PET film winding
4. Low fire-risk PVC-compound inner sheath
5. Double galvanized steel-tape armour
6. Low fire-risk PVC compound protection hose

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

