



СБВГнгд 4х2х1 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

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 premises, dry ducts and tunnels, 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 the absence of mechanical effects on cable*

Manufacturing of cables with core diameter of 0.8 mm is possible

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/m³)*
- *class ДТк1 on smoke-forming ability by smoldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m²/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 | | 4 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 | 77 |
| Cable outer diameter (for reference only) ** | mm | 11 |
| Cable weight (approximate) | kg/km | 143 |
| Rated factory cable length and gross weight of the delivery on the drums | m, t | # 10: 1970 • 0.4 |

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

Note: Manufacturing of cables with core diameter of 0.8 mm is possible

2. Polyethylene insulation

3. PET film winding

4. Low fire-risk PVC compound sheath

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

