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## ОБгПн \* 10 – 3.5 ТУ У 31.3-00214534-036-2004



Fiber optic module-core cables, corrugated steel-tape armoured, with polymer compound flame-retardant outer sheath

#### Mark formation:

OБгПн-[a]-[b] [c]10(10x[e])-3.5 [a] central strength element • *C* – steel • No marks – dielectric [b] quantity of optical fibers in the cable, possible values • 60, 80, 100, 120, 130, 140, 150, 160 [c] type of optical fiber

- E single-mode (ITU-T G.652B)
- A single-mode with extended wavelength band (ITU-T G.652D, ITU-T G.657A1)

· C – single-mode with non-zero shifted dispersion (ITU-T G.655)

• *M* – multimode with core and sheath diameter ratio 50 : 125 mm (ITU-T G.651)

- B multimode with core and sheath diameter ratio 62.5 : 125 mm (IEC 60793-2)
- [e] quantity of optical fibers in the module:

• 1 ... 16

Manufacturing of cables in climate version F is possible

Manufacturing of cables with steel strength element is possible

Manufacturing of cables with dielectric armour (of glass fiber rod) is possible

It is possible to manufacture cables with gel-filled core or dry core (with water-blocking yarns and tapes)

It is possible to manufacture cables with a number of core elements up to and including 18

Order placing: sample of indication (corresponds to configuration pattern) ОБгПн-80A10(10x8)-3.5 • ТУ У 31.3-00214534-036-2004

Cables are used for:

• installation in pipes (including air installation method), blocks, collectors at risk of damage by rodents, as well as in soil by mechanical method

• in areas with exclusive fire safety requirements

Fire safety code in accordance with ДСТУ 4809:2007: ПБ130122000

Products of this mark meet the requirements:

• single wire cable flame retardance

- bunched cable flame retardance category B
- class  $\[mu]T\kappa 1$  on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)
- class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)

• corrosive class  $K\kappa^2$  of combustion products of non-metallic elements (the number of halogen hydrides less

than 150 mg/g, pH more than 4.3, specific conductivity less than 10  $\mu$ S/mm)





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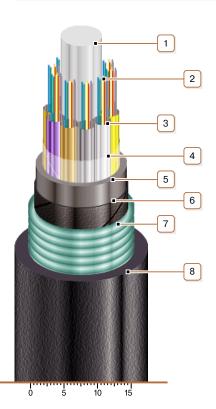
Fiber optic module-core cables, corrugated steel-tape armoured, with polymer compound flame-retardant outer sheath

## **TECHNICAL SPECIFICATIONS**

| Number of cable core elements                             | units     | 10      |
|---|-----------|---------|
| Number of optical fibers in cable                         | units     | 60 160  |
| Electrical resistance of sheath insulation, not less than | MOhm • km | 2000    |
| Permissible tensile force                                 | kN        | 3.5     |
| Permissible crushing force, no less than                  | N/10 sm   | 3000    |
| Operating temperature range                               | °C        | -40 +60 |
| Operating temperature range (in climate version F)        | °C        | -60 +60 |
| Cable weight (approximate, depending on construction)     | kg/km     | 360 420 |
| Rated outer diameter of the cable (for reference only,    | mm        | 18 20   |
| depending on construction) **                             |           |         |
| Minimum bending radius during laying                      | mm        | 400     |
| Notes:  |           |         |

When ordering it is neccesary 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. Central dielectric strength element

Note: Manufacturing of cables with steel strength element is possible

- 2. Optic fibers
- 3. Tube of fiber optic module
- 4. PET film winding
- 5. Polymer compound inner sheath
- 6. Lapping layer of water-blocking tape or thread

7. Armour of corrugated steel tape, polyethylene-laminated Note: Manufacturing of cables with dielectric armour (of glass fiber rod) is possible

8. Flame-retardant polymer compound outer sheath

Notes:

Optical module twisting is not illustrated.

• It is possible to manufacture cables with gel-filled core or dry core (with water-blocking yarns and tapes)

 It is possible to manufacture cables with a number of core elements up to and including 18