



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

Fiber optic module-core cables, aramid-yarn armoured, with polymer compound flame-retardant outer sheath

### Mark formation:

ОАрПно-[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

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)

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Cables are used for:

- installation in cable ducts, blocks, pipes, protection polyethylene pipes (including air installation method), without risk of damage by rodents
- in areas with exclusive fire safety requirements

Fire safety code in accordance with ДСТУ 4809:2007: ПБ101122000

Products of this mark meet the requirements:

- single wire cable flame retardance
- toxicity class Tk1 of the combustion products of nonmetallic elements (toxicity index from 13 up to 40 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 Кк2 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 μS/mm)



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**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     | 200 ... 250                           |
| Rated outer diameter of the cable (for reference only, depending on construction) ** | mm        | 14 ... 16                             |
| Minimum bending radius during laying   | mm        | 320                                   |
| Rated factory cable length and gross weight of the delivery on the drums ***         | m, t      | # 12a: 2740 · 0.7<br># 14: 3720 · 0.9 |

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 ± 10 %

**CONSTRUCTION**

1. Central dielectric strength element
2. Optic fibers
3. Tube of fiber optic module
4. PET film winding
5. Aramid-thread layer
6. 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

