



ОБГПно * 10 – 3.5 ТУ У 31.3-00214534-050:2005

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

Mark formation:

ОБГПно-[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

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)

ОБГПно-80A10(10x8)-3.5 • ТУ У 31.3-00214534-050:2005

Cables are used for:

- installation in pipes (including air installation method), blocks, collectors at risk of damage by rodents
- 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 ДТк1 on smoke-forming ability by smouldering 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 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 | 2000 |
| Operating temperature range | °C | -40 ... +60 |
| Operating temperature range (in climate version F) | °C | -60 ... +60 |
| Cable weight (approximate, depending on construction) | kg/km | 240 ... 285 |
| Rated outer diameter of the cable (for reference only, depending on construction) ** | mm | 15 ... 17 |
| Minimum bending radius during laying | mm | 340 |
| Rated factory cable length and gross weight of the delivery on the drums | m, t | # 14: 2460 · 0.8 |

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. 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. Lapping layer of water-blocking tape or thread

6. Armour of corrugated steel tape, polyethylene-laminated

7. 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

