





7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830 E-mail: market@yuzhcable.com.ua

ОБгПн * 12 – 2.7 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:

ОБгПн-[a]-[b] [c]12(12x[e])-2.7 [a] central strength element

- · C steel
- · No marks dielectric

[b] quantity of optical fibers in the cable, possible values

· 72, 96, 120, 144, 156, 168, 180, 192

[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-120А12(12х10)-2.7 • 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 $\pred{\mathcal{J}}$ T κ 1 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 K κ 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 μ S/mm)







7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830 E-mail: market@yuzhcable.com.ua

ОБгПн * 12 – 2.7 ТУ У 31.3-00214534-036-2004

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

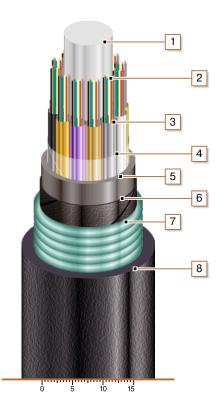
TECHNICAL SPECIFICATIONS

| Number of cable core elements | units | 12 |
|---|-----------|---------|
| Number of optical fibers in cable | units | 72 192 |
| Electrical resistance of sheath insulation, not less than | MOhm • km | 2000 |
| Permissible tensile force | kN | 2.7 |
| 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 | 410 500 |
| Rated outer diameter of the cable (for reference only, | mm | 20 22 |
| depending on construction) ** | | |
| Minimum bending radius during laying | mm | 440 |
| | | |

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
- 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
- 8. Flame-retardant polymer compound outer sheath

Note: optical module twisting is not illustrated