PRODUCTION GUIDE

E-mail: market@yuzhcable.com.ua
ОПн * 10-2.7
ТУ У 31.3-00214534-036-2004
Fiber optic module-core cables with polymer compound flame-retardant outer sheath

## Mark formation:

ОПн-[a]-[b] [c]10(10x[e])-2.7
[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, sealed with alumopolymer tape is possible (for laying in partially flooded premises 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 $40 \mathrm{~g} / \mathrm{m}^{3}$ )
- class ДТК1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to $500 \mathrm{~m}^{2} / \mathrm{kg}$ )
- 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 $150 \mathrm{mg} / \mathrm{g}, \mathrm{pH}$ more than 4.3, specific conductivity less than $10 \mu \mathrm{~S} / \mathrm{mm}$ )

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## TECHNICAL SPECIFICATIONS

| Number of cable core elements | units | 10 |
| :---: | :---: | :---: |
| Number of optical fibers in cable | units | $60 \ldots 160$ |
| Electrical resistance of sheath insulation, not less than | MOhm • km | 2000 |
| Permissible tensile force | kN | 2.7 |
| Permissible crushing force, no less than | $\mathrm{N} / 10 \mathrm{sm}$ | 3000 |
| Operating temperature range | ${ }^{\circ} \mathrm{C}$ | -40 ... +60 |
| Operating temperature range (in climate version F) | ${ }^{\circ} \mathrm{C}$ | -60 ... +60 |
| Cable weight (approximate, depending on construction) | kg/km | 200... 240 |
| Rated outer diameter of the cable (for reference only, depending on construction) ** | mm | $14 \ldots 16$ |
| Minimum bending radius during laying | mm | 320 |
| Rated factory cable length and gross weight of the delivery on the drums | m, t | $\begin{aligned} & \text { \# 12a: } 2060 \cdot 0.5 \\ & \# \text { 14: } 2790 \cdot 0.7 \end{aligned}$ |

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. Flame-retardant polymer compound outer sheath

Note: optical module twisting is not illustrated

