





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

ОАрПно * 12 – 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:

OApПно-[a]-[b] [c]12(12x[e])-3.5 [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

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) OApΠHo-144A12(12x12)-3.5 • Ty y 31.3-00214534-036-2004

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/m³)
- class $\mathcal{L}T\kappa 1$ on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m²/kg)
- class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)
- corrosive class Kk2 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)







ОАрПно * 12 – 3.5 ТУ У 31.3-00214534-036-2004



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

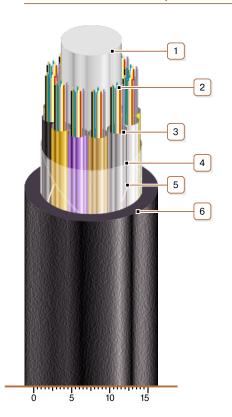
TECHNICAL SPECIFICATIONS

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	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	235 300
Rated outer diameter of the cable (for reference only,	mm	16 18
depending on construction) **		
Minimum bending radius during laying	mm	360
Rated factory cable length and gross weight of the delivery	m, t	# 14: 2180 • 0.7
on the drums ***		

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. 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