



**ОApΠ \* 8 – 7**  
**TY Y 31.3-00214534-036-2004**

Fiber optic module-core cables, aramid-yarn armoured, with polyethylene outer sheath

**Mark formation:**

ОApΠ-[a]-[b] [c]8(8x[e])-7

[a] central strength element

- C – steel
- No marks – dielectric

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

- 32, 48, 64, 80, 96, 104, 112, 120, 128

[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)

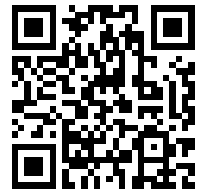
It is possible to manufacture cables with a number of core elements up to and including 18

Order placing: sample of indication (corresponds to configuration pattern)

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Cables are used for:

- suspensions between buildings and facilities, at power substations, at contact-line supports, at communication and lightning, power transmission lines supports



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**TECHNICAL SPECIFICATIONS**

Number of cable core elements	units	8
Number of optical fibers in cable	units	32 ... 128
Electrical resistance of sheath insulation, not less than	MOhm · km	2000
Permissible tensile force	kN	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	170 ... 200
Rated outer diameter of the cable (for reference only, depending on construction) **	mm	15 ... 16
Minimum bending radius during laying	mm	320
Rated factory cable length and gross weight of the delivery on the drums	m, t	# 12a: 2360 · 0.5 # 14: 3210 · 0.7

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
2. Optic fibers
3. Tube of fiber optic module
4. PET film winding
5. Polyethylene inner sheath
6. Aramid-thread layer
7. Polyethylene 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

