



ОApΠ * 12 – 20
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]12(12x[e])-20

[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
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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)

ОApΠ-72A12(12x6)-20 • TY Y 31.3-00214534-036-2004

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	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	20
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	335 ... 400
Rated outer diameter of the cable (for reference only, depending on construction) **	mm	21 ... 23
Minimum bending radius during laying	mm	460

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 ± 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 inner sheath
8. Aramid-thread layer
9. 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

