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500102-010040002048

ОПн * 4 – 1
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]4([d]x[e]+[f])-1
[a] central strength element
• *C – steel*
• *No marks – dielectric*
[b] quantity of optical fibers in the cable, possible values
• *2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 28, 30, 32, 36, 40, 48, 52, 56, 60, 64*
[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)*
[d] 1 … 4 – number of optical modules in cable
[e] quantity of optical fibers in the module:
• *1 … 16*
(f) quantity of insulated copper conductors in cable
Optical modules are completed with string fillers up to total number of core elements

Manufacturing of cables with two copper insulated remote power conductors instead of two string fillers is possible
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)
ОПн-30А4(3х10)-1 • ТУ У 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 Тк1 of the combustion products of nonmetallic elements (toxicity index from 13 up to 40 g/m^3)*
• *class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m^2/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 mg/g, pH more than 4.3, specific conductivity less than 10 μS/mm)*

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ОПн * 4 – 1
ТУ У 31.3-00214534-036-2004

Fiber optic module-core cables with polymer compound flame-retardant outer sheath

TECHNICAL SPECIFICATIONS

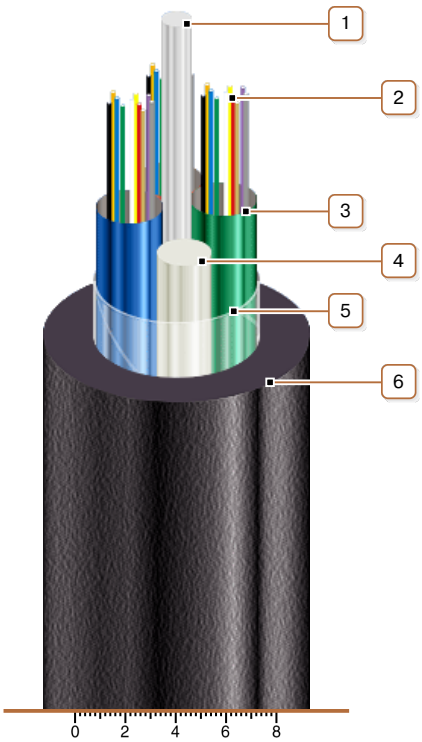
Number of cable core elements	units	4
Number of optical fibers in cable	units	2 ... 64
Electrical resistance of sheath insulation, not less than	MOhm • km	2000
Permissible tensile force	kN	1
Permissible crushing force, no less than	N/10 sm	3000
Operating temperature range	˚C	-40 ... +60
Operating temperature range (in climate version F)	˚C	-60 ... +60
Cable weight (approximate, depending on construction)	kg/km	90 ... 120
Rated outer diameter of the cable (for reference only, depending on construction) **	mm	9 ... 11
Minimum bending radius during laying	mm	220
Rated factory cable length and gross weight of the delivery on the drums ***	m, t	# 10a: 3120 • 0.4 # 12a: **** 4000 • 0.5

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 ± 10 %*

***** Option delivery on not full drum*



CONSTRUCTION

1. Central dielectric strength element
Note: Manufacturing of cables with steel strength element is possible

2. Optic fibers

3. Tube of fiber optic module

4. String filler
Note: Optical modules are completed with string fillers up to total number of core elements

5. PET film winding

6. Flame-retardant polymer compound outer sheath

Notes:
- *Optical module twisting is not illustrated.*
- *Manufacturing of cables with two copper insulated remote power conductors instead of two string fillers 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*

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