7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830
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501001-040100060120

# ОПТ * 10 – 4
# ТУ У 31.3-00214534-047:2005

Fiber optic overhead module-core cables, with polyethylene outer sheath

**Mark formation:**
ОПТ-[a]-[b] [c]10(10x[e])-4
[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 with armouring (aramid yarns and/or corrugated steel tape) is possible
Manufacturing of cables with steel or dielectric wire rope (glass fiber rod) is possible
Manufacturing of cables with flame-retardant polymer compound outer sheath 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)
ОПТ-100А10(10x10)-4 • ТУ У 31.3-00214534-047:2005

Cables are used for:
• *suspensions and operation at supports of aerial contact-lines, urban electric transport and aerial power transmission lines under impact of wind, ice or their combination loads*

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# ОПТ * 10 – 4
# ТУ У 31.3-00214534-047:2005

Fiber optic overhead module-core cables, with polyethylene outer sheath

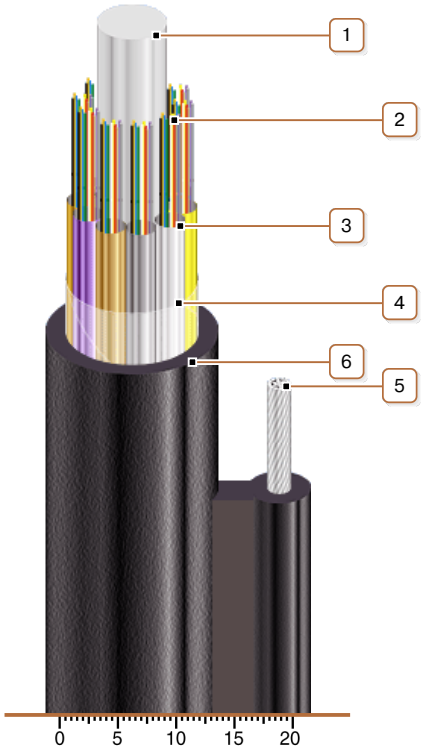
## TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| Number of cable core elements | units | 10 |
| Number of optical fibers in cable | units | 60 ... 160 |
| Electrical resistance of sheath insulation, not less than | MOhm • km | 2000 |
| Permissible tensile force | kN | 4 |
| 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 | 180 ... 220 |
| Rated outer diameter of the cable (for reference only, depending on construction) ** | mm | 13 ... 15 |
| Cable width with suspension element (for reference only, depending on construction design) | mm | 21 ... 23 |
| Minimum bending radius during laying | mm | 300 |
| Rated factory cable length and gross weight of the delivery on the drums *** | m, t | # 12a: 2360 • 0.6<br># 14: 3210 • 0.8 |

*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 %*




## 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. PET film winding*

*5. Extended strength member (rope)*
*Note: Manufacturing of cables with steel or dielectric wire rope (glass fiber rod) is possible*

*6. Polyethylene outer sheath*
*Note: Manufacturing of cables with flame-retardant polymer compound outer sheath is possible*

*Notes:*
- *Optical module twisting is not illustrated.*
- *Manufacturing of cables with armouring (aramid yarns and/or corrugated steel tape) 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*