



## Micro Tube-HF 48 \* (4x12)-1 TY Y 27.3-00214534-116:2019

Fiber optic distribution cables of micro-tube construction with flame-retardant, halogen-free and low smoking (HFFR) polymer compound sheath

### Mark formation:

Micro Tube-HF 48[c](4x12)-1

[c] type of optical fiber

- A – single-mode with extended wavelength band (ITU-T G.652D, ITU-T G.657A1)
- D - single-mode, not sensitive to losses on macro-bending (ITU-T G.657A2)

Order placing: sample of indication

Micro Tube-HF 48A(4x12)-1

Cable construction provides fast access to micro-tubes and fibres (no tools required), minimum of sealing compound and avoiding the risk of micro-tube kinking

Cables are used for:

- for digital signal transmission in optic local networks as distribution cables
- for compact outdoor installation in PE ducts by pulling or floating techniques
- in areas with exclusive fire safety requirements

Fire safety code in accordance with ДСТУ 4809:2007: ПБ103122000

Products of this mark meet the requirements:

- single wire cable flame retardance
- toxicity class Tk3 of the combustion products of nonmetallic elements (toxicity index over 120 g/m<sup>3</sup>)
- class ДТк1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/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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### TECHNICAL SPECIFICATIONS

Number of optical micro-tube in cable		4
Number of optical fibers in cable	units	48
Permissible tensile force (short-term)	N	1000
Permissible tensile force (continuous)	N	500
Permissible crushing force, no less than	N/10 sm	1500
Ambient temperature		
• during operation	°C	-30 ... +70
• during storage and transportation	°C	-30 ... +70
• during laying and installation	°C	-10 ... +40
Cable weight (approximate)	kg/km	50
Rated outer diameter of the cable (for reference) **	mm	7.7
Minimum bending radius during laying	mm	154
Minimum bending radius during operation	mm	77

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. Optic fibers
2. Tube of fiber optic micromodule
3. Water-blocking thread
4. Fiberglass rod in sheath
5. Aramid-thread or glass-thread layer
6. Lapping layer of water-blocking tape
7. Outer sheath of halogen-free flame retardant polymer composition with low smoke emission

Note: Optical module twisting is not illustrated.

