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# Micro Tube-HF 48 \* (4x12)-0.4 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)-0.4 [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)-0.4

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  $120 \text{ g/m}^3$ )

• class  $\[mu]T\kappa 1$  on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m<sup>2</sup>/kg)

• class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)

• corrosive class Kκ2 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  $\mu$ S/mm)





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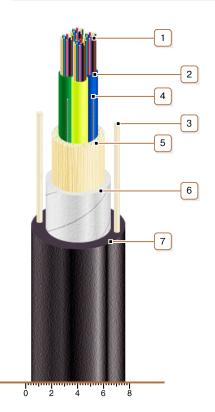
### **TECHNICAL SPECIFICATIONS**

Number of optical micro-tube in cable		4	
Number of optical fibers in cable	units	48	
Permissible tensile force (short-term)	N	400	
Permissible tensile force (continuous)	N	200	
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	30	
Rated outer diameter of the cable (for reference) **	mm	6.1	
Minimum bending radius during laying	mm	122	
Minimum bending radius during operation	mm	61	
Notes:			

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  $\pm$  10 %



## **CONSTRUCTION**

- 1. Optic fibers
- 2. Tube of fiber optic micromodule
- 3. Fiberglass rod in sheath
- 4. Water-blocking thread
- 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.