





7, Autogennaya Str., Kharkov, 61099, Ukraine. Phone: (+38-057) 728-1244, 728-1241. Fax: (+38-057) 728-1243, (+38-0572) 946-830 E-mail: market@yuzhcable.com.ua

# Micro Tube-HF 12 \* (2x6)-0.4 ТУ У 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 12[c](2x6)-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 12A(2x6)-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: ΠБ103122000

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/m³)
- class  $\mu$ TK1 on smoke-forming ability by smouldering of non-metallic elements (coefficient of smoke formation from 50 to 500 m²/kg)
- class ДΠκ2 on smoke-forming ability by combustion (minimum luminous flux more than 60 %)
- corrosive class Kk2 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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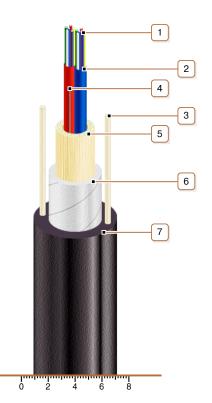
## **TECHNICAL SPECIFICATIONS**

Number of optical micro-tube in cable		2
Number of optical fibers in cable	units	12
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	25
Rated outer diameter of the cable (for reference) **	mm	5.4
Minimum bending radius during laying	mm	108
Minimum bending radius during operation	mm	54

Notes:

When ordering it is neccesary to agree the factory length of the product with the manufacturer

<sup>\*\*</sup> 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.