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## Micro Tube-HF 288 \* (24х12)-1.7 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 288[c](24x12)-1.7

[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 288A(24x12)-1.7

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/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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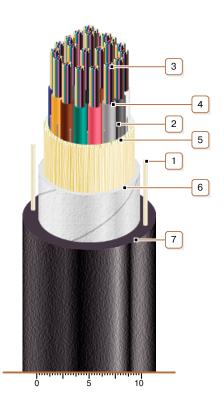
## **TECHNICAL SPECIFICATIONS**

Number of optical micro-tube in cable		24	
Number of optical fibers in cable	units	288	
Permissible tensile force (short-term)	N	1700	
Permissible tensile force (continuous)	N	850	
Permissible crushing force, no less than	N/10 sm	1500	
Ambient temperature			
during operation	°C	-30 +70	
<ul> <li>during storage and transportation</li> </ul>	°C	-30 +70	
<ul> <li>during laying and installation</li> </ul>	°C	-10 +40	
Cable weight (approximate)	kg/km	100	
Rated outer diameter of the cable (for reference) **	mm	11.5	
Minimum bending radius during laying	mm	230	
Minimum bending radius during operation	mm	115	

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