

# essential-OF MT LSZH 48-96C - APAC

- Micro Tube optical fiber cable
- Small, but mechanical strong cable
- Designed for splicing with pigtails
- 48-96 fibers

## Description and Application

The new Micro Tube technology from Aginode allows to manufacture a flexible and small tube. This Micro Tube is the central part of the new “Essential-OF Micro Tube Cable” design, it contains 12 fibers with a fiber diameter of 250 um. Termination of these fibers is done with splicing with pigtails. Up to 8 Micro Tube are arranged around a central strength element. Aramid yarns provide additional strength and make the cable installer friendly. The combination of the Micro Tube technology, the central strength element and aramid yarns result in a mechanical robust, but also small and flexible cable. This makes it an optimized cable for datacenters and backbones.

The small bending radius of the Essential-OF Micro Tube Cable makes the cable easy to arrange in patch panels, in cable trays and in ducts. The Essential-OF Micro Tube Cable complies with the indoor fire requirements. Since there is no drip effect of the very limited amount of gel the cable is optimized for both horizontal and vertical installations.

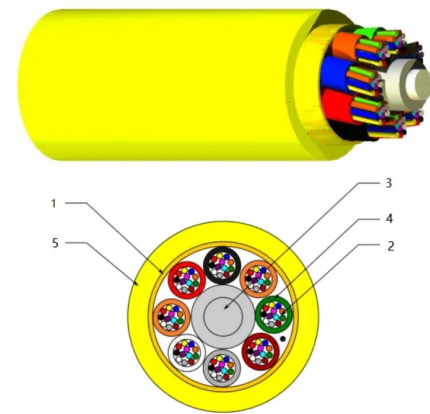
## Construction

Legend accompanying the cross-section drawing:

1. Aramid yarn
2. 250um fiber
3. Central strength member
4. Inner jacket
5. LSZH Outer Jacket

## Characteristics

- Micro Tube Cable design for easy installation
- Indoor cable for horizontal and vertical installations
- Flame retardant (IEC 60332-1)
- Fire retardant (IEC 60332-3-24)
- All dielectric design
- Designed for termination by splicing
- Aramid yarns for ease of handling and as strength element
- Up to 12 fibres per Micro Tube
- Available in 48, 72 and 96 fibers



## STANDARDS

- ANSI/TIA-568-C.3
- IEC 60332-1
- IEC 60332-3-24 Cat.C
- IEC 60793-2-10
- ISO/IEC 11801

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## CHARACTERISTICS

### Construction characteristics

|                  |            |
|------------------|------------|
| Colour           | Orange     |
| Fiber optic type | OM3 50/125 |

### Dimensional characteristics

|                          |        |
|--------------------------|--------|
| Outer Diameter           | 6.5 mm |
| Number of optical fibres | 48     |

### Mechanical characteristics

|   |                      |
|---|----------------------|
| Mechanical resistance to impacts (IEC 60794-1-E4) | 100 impacts of 1 N.m |
| Crush resistance (IEC 60794-1-E3)                 | 1000 N/100mm         |
| Maximum pulling force (IEC 60794-1-2-E1)          | 1500 N               |

### Usage characteristics

|  |             |
|--|-------------|
| Operating temperature, range             | -20...60 °C |
| Minimum dynamic operating bending radius | 130.0 mm    |
| Minimum static operating bending radius  | 65 mm       |
| Storage temperature, range               | -20...60 °C |
| Installation temperature, range          | 0...60 °C   |

## Product list

|   | Aginode ref. | Country ref. | 名前  |
|---|--------------|--------------|---|
| ☎ | N275.MT480   | -            | essential-OF Micro Tube Cable 48F LSZH Multimode OM3 50/125 Orange          |
| ☎ | N274.MT48Y   | -            | essential-OF Micro Tube Cable 48F LSZH Single mode OS2 G.652.D 9/125 Yellow |
| ☎ | N275.MT720   | -            | essential-OF Micro Tube Cable 72F LSZH Multimode OM3 50/125 Orange          |
| ☎ | N274.MT96Y   | -            | essential-OF Micro Tube Cable 96F LSZH Single mode OS2 G.652.D 9/125 Yellow |
| ☎ | N275.MT96O   | -            | essential-OF Micro Tube Cable 96F LSZH Multimode OM3 50/125 Orange          |
| ☎ | N274.MT72Y   | -            | essential-OF Micro Tube Cable 72F LSZH Single mode OS2 G.652.D 9/125 Yellow |

☎ = Make to order, 📦 = In Stock

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