



Product: [GCIHE48](#)

Universal OFC MLT: ARAMID + LSZH + PA + SWA + LSZH with 6 Tubes of Ø1.9mm 48f MM OM4.

Product Description

Universal (Indoor/Outdoor) dry core optical fiber Multi Loose Tube cable with aramid yarns as strength member, Low Smoke Zero Halogen inner jacket, termite protection by polyamide layer, Steel Wire Armouring (Full Rodent Protected) armor and Low Smoke Zero Halogen outer jacket. Product feature: This cable has improved rodent protection by Steel Wire Armouring (Full Rodent Protected) and termite protection by polyamide layer. Existing out of 6 tubes with a diameter of 1.9mm with 48 fibers (4t x 12f) MM OM4.

Technical Specifications

Product Overview

|                        |                                                                                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction Type:     | Multi Loose Tube                                                                                                                                                                                                                                                                                             |
| Environmental Space:   | Indoor/Outdoor                                                                                                                                                                                                                                                                                               |
| Suitable Applications: | For outdoor and indoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone (riser) and/or horizontal cabling. For outdoor and indoor use in networks for industrial, telecom, cable TV and/or broadcast. Easy to install in ducts, tunnels and/or tubes. |

Construction

Fiber Cable Construction

| Fiber Type                    | Fiber Count                                                                                             | Subunit Color                                      |
|-------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| OM4                           | 48                                                                                                      | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown |
| Fiber Color Code:             | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua |                                                    |
| Central Strength Member Type: | GRP                                                                                                     |                                                    |
| Cable Core Water Tight:       | Yes                                                                                                     |                                                    |
| Cable Core Water Blocking:    | Waterblocking Aramid Yarns + Tape                                                                       |                                                    |
| Bulk Cable Weight:            | 320 kg/km                                                                                               |                                                    |

SubUnit Specifications

|                              |            |
|------------------------------|------------|
| Number of Active Subunits:   | 4          |
| Number of Subunit Positions: | 6          |
| Fibers Per Subunit:          | 12         |
| Subunit Diameter:            | 1.9 mm     |
| Subunit Waterblocking:       | Gel Filled |

Jacket Specifications

|                    |               |
|--------------------|---------------|
| Number of Jackets: | Triple Jacket |
| Type of Armor:     | Steel Wire    |

Inner Jacket

|                         |                                                 |
|-------------------------|-------------------------------------------------|
| Material:               | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Inner Jacket2 Material: | Nylon                                           |

Outer Jacket Specifications

Outer Jacket

| Material                                        | Color | Nominal Diameter | Ripcord |
|-------------------------------------------------|-------|------------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | Black | 14.3 mm          | No      |

|                            |                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Outer Jacket1 Table Notes: | Standard color: Black. Available colors: Orange, Yellow, Turquoise, Erika Violet, Red, Blue, Green, Brown, Violet, Pink, Grey, White, Black, Lime Green |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|

Optical Characteristics

|                                 |           |
|---------------------------------|-----------|
| Maximum Attenuation at 1300 nm: | 0.9 dB/km |
| Maximum Attenuation at 850 nm:  | 2.9 dB/km |

Mechanical Characteristics

Mechanical Tests

| Description                                           | Tested Standard    | Requirement/Value | According to Family Specification |
|-------------------------------------------------------|--------------------|-------------------|-----------------------------------|
| Cable Min. Bend Radius Installation (Short Term)      | IEC 60794-1-21-E6  | 286 mm            | IEC 60794-3-10                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 286 mm            | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1  | 2700 N (607 lbf)  | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Operation (Long Term)     | IEC 60794-1-21-E1  | 900 N (202 lbf)   | IEC 60794-3-10                    |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3  | 22 kN/m           | IEC 60794-3-10                    |
| Cable Max. Crush Resistance Operation (Long Term)     | IEC 60794-1-21-E3  | 11 kN/m           | IEC 60794-3-10                    |

Temperature Range

|                                 |                  |
|---------------------------------|------------------|
| Operating Temperature Range:    | -30 °C to +70 °C |
| Installation Temperature Range: | -5 °C to +50 °C  |
| Storage Temperature Range:      | -30 °C to +70 °C |

Standards

|                                                            |                            |
|------------------------------------------------------------|----------------------------|
| UL Rating/Flame Test:                                      | Non-UL Rated               |
| IEC Flammability:                                          | IEC 60332-1-2              |
| Reaction to Fire - Bundle Flame Test:                      | IEC 60332-3-22             |
| IEC 60754-1 - Halogen Amount:                              | Zero                       |
| IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity: | 10 µS/mm                   |
| IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:           | 4.3                        |
| REACH:                                                     | Compliant                  |
| ISO/IEC Compliance:                                        | IEC 60794, ISO/IEC 11801-1 |
| EU Directive 2011/65/EU (RoHS 2):                          | Compliant                  |
| UV/ Sunlight Protection:                                   | Yes                        |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.21 Revision Date: 09-17-2024 |
|----------------------|-------------------------------------------------|

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