



**Product:** [TM-1LF-006-HNA](#)

Marine, In+Outdoor, MLT, OM1, 6f, Gel Tubes 2.8mm, Sgl Jkt - LSZH, OFNG-ST1, ABS

**Product Description**

Marine Grade, Indoor/Outdoor, Multi-Loose-Tube, OM1, 6 Fibers, Gel Filled Tubes 2.8mm, Single Jacket - LSZH, OFNG-ST1, ABS Approved

**Technical Specifications**

**Product Overview**

|                        |                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------|
| Product Category:      | Fiber Multi-Loose Tube Cable                                                                                  |
| Suitable Applications: | Extended Distance Horizontal & Backbone Data/Telco Network, Noisy Environment, Indoor/Outdoor & Wet Locations |

**Fiber Specifications**

|                      |             |
|----------------------|-------------|
| Fiber Type:          | OM1         |
| Fiber Core Diameter: | 62.5/125 µm |
| Fiber Diameter:      | 250 µm      |
| Fiber Count:         | 6           |
| Fiber Color Coding:  | TIA-598-D   |

**Cable Construction**

|                            |                    |
|----------------------------|--------------------|
| Number of Active Subunits: | 1                  |
| Number of Fillers:         | 4                  |
| Fibers Per Subunit:        | 6                  |
| Subunit Waterblocking:     | Gel Filled         |
| Subunit Diameter:          | 0.110 in (2.8 mm)  |
| Subunit Color:             | TIA-598-D          |
| Central Strength Member:   | GRP                |
| Core Wrap:                 | Waterblocking tape |

**Outer Jacket Specifications**

|                     |                                                 |
|---------------------|-------------------------------------------------|
| Strength Member:    | Waterblocking Aramid Yarns                      |
| Jacket Material:    | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter:      | 0.460 in (11.7 mm)                              |
| Number of Ripcords: | 1                                               |

**Optical Characteristics**

| Wavelength                             | 850 nm     | 1300 nm    |
|----------------------------------------|------------|------------|
| Max. Attenuation                       | 3.25 dB/km | 1.0 dB/km  |
| 1 Gigabit Ethernet Performance         | 300 m      | 550 m      |
| 10 Gigabit Ethernet Performance        | 33 m       | -          |
| Min. Restricted Mode Launch            | 220 MHz.km | -          |
| Min. Overfilled Launch (OFL) Bandwidth | 200 MHz.km | 500 MHz.km |

**Mechanical Characteristics**

|                                       |              |
|---------------------------------------|--------------|
| Min. Bend Radius During Installation: | 15x Cable OD |
| Min. Bend Radius During Operation:    | 10x Cable OD |

|                                            |                        |
|--------------------------------------------|------------------------|
| Max. Tensile Strength During Installation: | 2670 N (600 lbf)       |
| Max. Tensile Strength During Operation:    | 800 N (180 lbf)        |
| Crush Resistance:                          | 220 N/cm               |
| Bulk Cable Weight:                         | 89 lbs/kft (132 kg/km) |

Temperature Range

|                                 |                |
|---------------------------------|----------------|
| Installation Temperature Range: | -10°C to +60°C |
| Operating Temperature Range:    | -40°C to +70°C |
| Storage Temperature Range:      | -40°C to +70°C |

Standards and Compliance

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor, Sunlight Resistance, Burial |
| Flammability / Reaction to Fire: | OFNG-ST1, FT4                               |
| ICEA Compliance:                 | S-104-696                                   |
| IEEE Compliance:                 | IEEE 45                                     |
| Marine Compliance:               | ABS                                         |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.21 Revision Date: 11-14-2022 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item #          | Color | Putup Type |
|-----------------|-------|------------|
| TM-1LF-006-HNAN | Black | Reel       |

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