




**Product:** [TM-1BB-006-LBA](#) 

Marine, In+Outdoor, BO, OM1, 6f, Subunit 2.0mm, BBA, Dbl Jkt - LSZH, OFCR-ST1, ABS

### Product Description

Marine Grade, Indoor/Outdoor, Breakout, OM1, 6 Fibers, Subunits 2.0mm 900um, Bronze Braid Armor, Double Jacket - LSZH, OFCR-ST1, ABS Approved

### Technical Specifications

#### Product Overview

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

#### Fiber Specifications

|                      |                               |
|----------------------|-------------------------------|
| Fiber Type:          | OM1                           |
| Fiber Core Diameter: | 62.5/125 $\mu$ m              |
| Fiber Diameter:      | 250 $\mu$ m                   |
| Buffer Material:     | LSZH - Low Smoke Zero Halogen |
| Buffer Diameter:     | 900 $\mu$ m                   |
| Fiber Count:         | 6                             |
| Fiber Color Coding:  | TIA-598-D                     |

#### Cable Construction

|                            |                            |
|----------------------------|----------------------------|
| Number of Active Subunits: | 6                          |
| Number of Fillers:         | 0                          |
| Fibers Per Subunit:        | 1                          |
| Subunit Waterblocking:     | Waterblocking Aramid       |
| Subunit Diameter:          | 0.078 in (2.0 mm)          |
| Subunit Color:             | Orange                     |
| Subunit Strength Members:  | Waterblocking aramid yarns |
| Central Strength Member:   | GRP                        |
| Core Wrap:                 | Waterblocking tape         |

#### Inner Jacket Specifications

|                     |   |
|---------------------|---|
| Strength Member:    | Waterblocking Aramid Yarns                      |
| Material:           | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter:      | 0.368 in (9.3 mm)                               |
| Color:              | Black   |
| Number of Ripcords: | 1   |

#### Armor Specifications

|                          |                          |
|--------------------------|--------------------------|
| Armor Type and Material: | BBA - Bronze Braid Armor |
|--------------------------|--------------------------|

#### Outer Jacket Specifications

|                |   |
|----------------|---|
| Material:      | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter: | 0.553 in (14.0 mm)                              |

## Optical Characteristics

| Wavelength                             | 850 nm     | 1300 nm    |
|--|------------|------------|
| Max. Attenuation                       | 3.5 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:      | 20x 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:                          | 440 N/cm                |
| Bulk Cable Weight:                         | 191 lbs/kft (284 kg/km) |

## Temperature Range

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

## Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor/Outdoor, Sunlight Resistance, Burial |
| Flammability / Reaction to Fire: | OFRC-ST1, FT4                               |
| ICEA Compliance:                 | S-104-696                                   |
| IEEE Compliance:                 | IEEE 45, IEEE 1580 (braid only)             |
| Marine Compliance:               | ABS   |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.13 Revision Date: 12-15-2021 |
|----------------------|---|

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