



**Product:** [TM-1BB-012-LBA](#) 

Marine, In+Outdoor, BO, OM1, 12f, Subunit 2.0mm, BBA, Dbl Jkt - LSZH, OFCR-ST1, ABS

### Product Description

Marine Grade, Indoor/Outdoor, Breakout, OM1, 12 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:	12
Fiber Color Coding:	TIA-598-D

#### Cable Construction

Number of Active Subunits:	12
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:	Upjacketed GRP
Core Wrap:	Waterblocking tape

#### Inner Jacket Specifications

Strength Member:	Waterblocking Aramid Yarns
Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	0.550 in (14.0 mm)
Color:	Black
Number of Ripcords:	1

#### Armor Specifications

Armor Type and Material:	BBA - Bronze Braid Armor
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#### Outer Jacket Specifications

Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	0.735 in (18.7 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:	307 lbf/kft (457 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: 0.11 Revision Date: 10-14-2021
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