



**Product:** [TM-1D9-012-LBA](#) 

Marine, In+Outdoor, DN, OM1, 12f, Non-Unit, BBA, Dbl Jkt - LSZH, OFCR-ST1, ABS

## Product Description

Marine Grade, Indoor/Outdoor, Distribution, OM1, 12 Fibers, Non-Unit 900um, Bronze Braid Armor, Double Jacket - LSZH, OFCR-ST1, ABS Approved

## Technical Specifications

### Product Overview

Product Category:	Fiber Distribution 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

### Inner Jacket Specifications

Strength Member:	Waterblocking Aramid Yarns
Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	0.320 in (8.1 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:	0.475 in (12.1mm)

### 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:	134 lbs/kft (199 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:	OFCR-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: 04-08-2022
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