



**Product:** [TM-SD9-012-LBA](#)

Marine, In+Outdoor, DN, OS2, 12f, Non-Unit, BBA, Dbl Jkt - LSZH, OFCR-ST1, ABS

**Product Description**

Marine Grade, Indoor/Outdoor, Distribution, OS2, 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:          | OS2                           |
| Fiber Core Diameter: | 8.2/125 µm                    |
| Fiber Diameter:      | 250 µm                        |
| Buffer Material:     | LSZH - Low Smoke Zero Halogen |
| Buffer Diameter:     | 900 µm                        |
| 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 |
|--------------------------|--------------------------|

**Outer Jacket Specifications**

|                  |                                                 |
|------------------|-------------------------------------------------|
| Jacket Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter:   | 0.475 in (12.1mm)                               |

**Optical Characteristics**

| Wavelength                      | 1310 nm    | 1550 nm    |
|---------------------------------|------------|------------|
| Max. Attenuation                | 0.50 dB/km | 0.50 dB/km |
| Mode Field Diameter             | 9.2 µm     | 10.4 µm    |
| 1 Gigabit Ethernet Performance  | 5000 m     | -          |
| 10 Gigabit Ethernet Performance | 10,000 m   | 40,000 m   |

**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 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: | 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: 0.18 Revision Date: 11-14-2022 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item #          | Color | Putup Type |
|-----------------|-------|------------|
| TM-SD9-012-LBAN | Black | Reel       |

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