



**Product:** [TM-4D9-012-LNAN](#)

Marine Tuff Indoor/Outdoor Distribution OM4 12F Non-Unit Single Jacket  
Black LSZH OFNR-ST1 ABS

## Product Description

Marine Grade, Indoor/Outdoor, Distribution, OM4, 12 Fibers, Non-Unit 900um, Single Jacket LSZH, OFNR-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

### Fiber Specifications

Fiber Type:	OM4
Fiber Core Diameter:	50/125 µm
Fiber Diameter:	250 µm
Buffer Diameter:	900 µm
Fiber Count:	12
Fiber Color Coding:	TIA-598-D

### Outer Jacket Specifications

Strength Member:	Waterblocking Aramid Yarns
Jacket Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	0.320 in (8.1 mm)
Color:	Black
Number of Ripcords:	1

### Optical Characteristics

Wavelength	850 nm	1300 nm
Max. Attenuation	3.0 dB/km	1.0 dB/km
10 Gigabit Ethernet Performance	400 m	--
Min. Effective Modal Bandwidth (EMB)	4700 MHz.km	--
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz.km	500 MHz.km

### Mechanical Characteristics

Min. Bend Radius During Installation:	15 x Cable OD
Min. Bend Radius During Operation:	10 x Cable OD
Max. Tensile Strength During Installation:	660 N (150 lbf)
Max. Tensile Strength During Operation:	200 N (45 lbf)
Crush Resistance:	220 N/cm
Bulk Cable Weight:	36 lbs/kft (54 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
Flammability / Reaction to Fire:	UL 1666, UL 1685, FT4
NEC / UL Compliance:	OFNR-ST1
CEC / C(UL) Compliance:	OFNR-ST1
ICEA Compliance:	S-104-696
IEEE Compliance:	IEEE 45
TIA/EIA Compliance:	598-D
Marine Compliance:	ABS
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment)

History

Update and Revision:	Revision Number: 0.5 Revision Date: 04-07-2025
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