



Product: [TE-1LD-048-LX5N](#) 

Mining Grade Indoor/Outdoor Multi-Loose-Tube OM1 48 Fibers Dry Tubes
2.5mm Rodent Resistant Double Jacket LSZH OFNR-ST1 Ozone-UV-Chem
Resistant MSHA

Product Description

Mining Grade, Indoor/Outdoor, Multi-Loose-Tube, OM1, 48 Fibers, Dry Tubes 2.5mm, Rodent Resistant, Double Jacket, Black, LSZH, OFNR-ST1, Ozone-UV-Chem Resistant, MSHA Approved

Technical Specifications

Product Overview

Product Category:	Fiber Multi-Loose Tube Cable
Suitable Applications:	Mining, Harsh Environment, IoT, Factory or Process Automation, IP Cameras And Devices, Data Communication

Fiber Specifications

Fiber Type:	OM1
Fiber Core Diameter:	62.5/125 µm
Fiber Diameter:	250 µm
Fiber Count:	48
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	4
Number of Fillers:	1
Fibers Per Subunit:	12
Subunit Waterblocking:	Gel Free
Subunit Diameter:	0.098 in (2.5 mm)
Central Strength Member Type:	GRP

Inner Jacket Specifications

Inner Jacket Strength Member:	Fiberglass Yarns
Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nominal Diameter@InnerJacket1 (cnv):	0.371 in (9.4 mm)
Color:	Black
Number of Inner Jacket Ripcords:	1

Outer Jacket Specifications

Strength Member:	Fiberglass Yarns
Jacket Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	0.539 in (13.7 mm)
Outer Jacket Color:	Black
Outer Jacket Ripcord:	1

Optical Characteristics

Wavelength	850 nm	1300 nm
Max. Attenuation	3.5 dB/km	1.25 dB/km
10 Gigabit Ethernet Performance	33 m	--
Min. Overfilled Launch (OFL) Bandwidth	200 MHz.km	500 MHz.km

Mechanical Characteristics

Minimum Bend Radius During Installation:	15x Cable OD
Minimum Bend Radius During Operation:	10x Cable OD
Max. Tensile Strength During Installation:	4448 N (1000lbf)
Max. Tensile Strength During Operation:	1320 N (300lbf)
Crush Resistance:	440 N/cm
Bulk Cable Weight:	109 lbs/kft (162 kg/km)

Temperature Range

Installation Temperature Range:	-30°C to +60°C
Operating Temperature Range:	-50°C to +85°C
Storage Temperature Range:	-50°C to +85°C

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1666, UL 1685
NEC / UL Compliance:	OFNR-ST1
CEC / C(UL) Compliance:	OFNG-ST1
ICEA Compliance:	S-104-696
TIA/EIA Compliance:	568.3, 598-D
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment)

Product Notes

Notes:	Ozone Resistance, PMSHA - 07-KA250004-MSHA
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History

Update and Revision:	Revision Number: 0.2 Revision Date: 05-26-2026
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Part Numbers

Variants

Item #	Color	Putup Type
TE-1LD-048-LX5N	Black	Reel

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