



**Product:** [NKXU50MA006BKAA](#) 

Universal OFC MLT: Gel Filled Tubes (6F/T), Gel Filled Core, PE Inner Jacket (black) + CST + LSZH Outer Jacket (black) 6f MM OM2 IEC 60332-1 rated.

## Product Description

Universal (Indoor/Outdoor) Gel filled tubes (6F/T), Gel filled core, optical fiber Multi Loose Tube cable with Polyethylene inner jacket (black), Corrugated Steel Tape armor and Low Smoke Zero Halogen outer jacket (black), 6 fibers MM OM2 IEC 60332-1 rated.

## Technical Specifications

### Product Overview

Product Category:	Fiber Multi-Loose Tube Cable
Suitable Applications:	For outdoor/indoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone cabling. For outdoor/indoor use in networks for industrial, telecom, cable TV and/or broadcast. Easy to install in ducts, tunnels and trenches and/or tubes. Suitable for Direct Burial.

### Fiber Specifications

Fiber Type:	OM2
Fiber Core Diameter:	50 $\mu\text{m}$
Fiber Diameter:	125 $\mu\text{m}$
Buffer Material:	PBT – Polybutylene Terephthalate
Fiber Count:	6
Fiber Color Coding:	TIA-598-D

### Cable Construction

Number of Active Subunits:	1
Number of Fillers:	7
Fibers Per Subunit:	6
Subunit Waterblocking:	Gel Filled
Subunit Diameter:	2.1 mm
Subunit Color:	Blue, Filler, Filler, Filler, Filler, Filler, Filler, Filler
Central Strength Member:	GRP
Cable Core Waterblocking:	Gel Filled

### Inner Jacket Specifications

Material:	PE - Polyethylene
Color:	Black

### Armor Specifications

Armor Type and Material:	CST - Corrugated Steel Tape
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### Outer Jacket Specifications

Jacket Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	15.8 mm (0.622 in)
Color:	Black

### Optical Characteristics

Wavelength	850 nm	1300 nm
Max. Attenuation	3.0 dB/km	1.0 dB/km

## Mechanical Characteristics

Min. Bend Radius During Installation:	25 x Cable OD
Min. Bend Radius During Operation:	12.5 x Cable OD
Max. Tensile Strength During Installation:	3000 N (670 lbf)
Max. Tensile Strength During Operation:	1000 N (220 lbf)
Crush Resistance:	3000N/100mm

## Mechanical Tests

Description	Tested Standard
Cable Min. Bend Radius Installation (Short Term)	IEC 60794-1-21-E11
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3

Bulk Cable Weight: 330 kg/km (220 lbs/1000ft)

## Temperature Range

Operating Temperature Range:	-40 °C to +70 °C
Storage Temperature Range:	-40 °C to +70 °C

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Aerial, Burial
Flammability / Reaction to Fire:	IEC 60332-1-2
ISO/IEC Compliance:	IEC 60793-1-1IEC 60794-1-1
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2)

## History

Update and Revision:	Revision Number: 0.36 Revision Date: 01-16-2024
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