



**Product:** [GBNJD44](#) 

Outdoor OFC MLT: ARAMID + PE + PA with 12 Tubes of Ø1.9mm 144f MM OM3.

### Product Description

Outdoor dry core optical fiber Multi Loose Tube cable with aramid yarns as strength member and polyethylene outer jacket plus termite protection by polyamide layer. Existing out of 12 tubes with a diameter of 1.9mm with 144 fibers MM OM3.

### Technical Specifications

#### Product Overview

Construction Type:	Multi Loose Tube
Environmental Space:	Outdoor
Suitable Applications:	For outdoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone (riser) and/or horizontal cabling. For outdoor 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.

#### Construction

##### Fiber Cable Construction

Fiber Type	Fiber Count	Subunit Color
OM3	144	TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua
Fiber Color Coding:	TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua	
Central Strength Member:	GRP	
Cable Core Water Tight:	Yes	
Cable Core Water Blocking:	Waterblocking Aramid Yarns + Tape	
Bulk Cable Weight:	149 kg/km	

#### SubUnit Specifications

Number of Active Subunits:	12
Number of Subunit Positions:	12
Fibers Per Subunit:	12
Subunit Diameter:	1.9 mm
Subunit Waterblocking:	Gel Filled

#### Jacket Specifications

Number of Jackets:	Double Jacket
Type of Armor:	Non-Armored

#### Outer Jacket Specifications

##### Outer Jacket

Material	Color	Nominal Diameter	Ripcord
PE - Polyethylene	Black	12.7 mm	1
Nylon		13.7mm	

#### Optical Characteristics

Fiber Core Diameter:	50 µm
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Max. Attenuation at 1300 nm:	1.0 dB/km
Max. Attenuation at 850 nm:	2.9 dB/km

## Mechanical Characteristics

### Mechanical Tests

Description	Tested Standard	Requirement/Value	According to Family Specification
Cable Min. Bend Radius Installation (Short Term)	IEC 60794-1-21-E6	274 mm	IEC 60794-3-10
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	205.5 mm	IEC 60794-3-10
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	2850 N (641 lbf)	IEC 60794-3-10
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	950 N (214 lbf)	IEC 60794-3-10
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	15 kN/m	IEC 60794-3-10
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3	7.5 kN/m	IEC 60794-3-10
Cable Impact Resistance	IEC 60794-1-21-E4	10 J, 300 mm Radius, 3 Cycles	IEC 60794-3-10
Cable Torsion Resistance	IEC 60794-1-21-E7	180°, 2 m, 10 cycles	IEC 60794-3-10

### Temperature Range

Operating Temp Range:	-30 °C to +70 °C
Installation Temp Range:	-5 °C to +50 °C
Storage Temp Range:	-30 °C to +70 °C

### Standards

UL Rating/Flame Test:	Non-UL Rated
REACH:	Compliant
ISO/IEC Compliance:	IEC 60794
EU Directive 2011/65/EU (RoHS 2):	Compliant
UV/ Sunlight Protection:	Yes

### History

Update and Revision:	Revision Number: 0.52 Revision Date: 12-15-2021
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