



Product: [FOLU12MA004BKAA-C](#)

Universal OFC MLT: Dry Tubes (4F/T), Dry Core, Glass Yarn + CST + LSZH Outer Jacket (black) 4f SM G.652.D. IEC 60332-3-24 rated.

Product Description

Universal (Indoor/Outdoor) Dry tubes (4F/T), Dry core, optical fiber Multi Loose Tube cable with Glass Yarn strength member, Corrugated Steel Tape armor and Low Smoke Zero Halogen outer jacket (black), 4 fibers SM G.652.D. IEC 60332-3-24 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:	OS2, G.652.D
Fiber Core Diameter:	9 µm
Fiber Diameter:	125 µm
Buffer Material:	PBT – Polybutylene Terephthalate
Fiber Count:	4
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	1
Number of Fillers:	5
Fibers Per Subunit:	4
Subunit Waterblocking:	Gel Free
Subunit Color:	TIA-598-D
Central Strength Member:	GRP
Cable Core Waterblocking:	Waterblocking Yarns + Tape

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:	12.1 mm (0.476 in)
Color:	Black

Optical Characteristics

Wavelength	1310 nm	1550 nm
Max. Attenuation	0.36 dB/km	0.22 dB/km
Mode Field Diameter	9.2 µm	10.4 µm

Mechanical Characteristics

Min. Bend Radius During Installation:	20 x Cable OD
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Min. Bend Radius During Operation:	10 x Cable OD
Max. Tensile Strength During Installation:	2700 N (610 lbf)
Max. Tensile Strength During Operation:	900 N (200 lbf)
Crush Resistance:	2200N/100mm for Short Term & 1100N/100mm for Long Term

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
Cable Impact Resistance	IEC 60794-1-21-E4
Waterblocking	IEC 60794-F5

Bulk Cable Weight:	148 kg/km (99.5 lbs/1000ft)
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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, Non-Halogenated, Burial
Flammability / Reaction to Fire:	IEC 60332-3-24
ISO/IEC Compliance:	IEC 60793-1-1IEC 60794-1-1, IEC 61034-2 - Smoke Density Min Transmittance = 60%
European Halogen Free Standards:	IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 , IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2)

History

Update and Revision:	Revision Number: 0.6 Revision Date: 07-18-2024
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