



Product: [NYLU54BA012BKAA](#)

Universal OFC CLT (jelly filled): ARAMID YARNS + CST + LSZH Jacket 12f MM OM4 IEC 60332-1 rated.

Product Description

Universal (Indoor/Outdoor) optical fiber Central Loose Tube (jelly filled tube) cable with aramid yarns as flexible non-metallic strength member, Corrugated Steel Tape armor and flame retardant LSZH jacket, 12 fibers MM OM4 IEC 60332-1 rated.

Technical Specifications

Product Overview

Product Category:	Central Loose Tube
Suitable Applications:	For Indoor/Outdoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone 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.

Fiber Specifications

Fiber Type:	OM4
Fiber Core Diameter:	125 μ m
Fiber Diameter:	250 μ m
Fiber Count:	12
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	1
Fibers Per Subunit:	12
Subunit Waterblocking:	Gel Filled
Subunit Diameter:	3.0 mm
Subunit Color:	Natural

Armor Specifications

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

Strength Member:	Aramid Yarns
Jacket Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	7.3 mm (0.29 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:	20 x Cable OD
Min. Bend Radius During Operation:	10 x Cable OD
Max. Tensile Strength During Installation:	1000 N (220 lbf)

Max. Tensile Strength During Operation:	400 N (90 lbf)
Crush Resistance:	1000 N/100 mm for short 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

Bulk Cable Weight:	68 kg/km (46 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
Flammability / Reaction to Fire:	IEC 60332-1 Flammability
ISO/IEC Compliance:	IEC 60793-1-1IEC 60794-1-1, IEC 61034-2 - Smoke Density Min Transmittance = 60%
European Halogen Free Standards:	IEC 60754-1 - Halogen Amount = ≤ 5 mg/g, 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: 0.16 Revision Date: 03-08-2024
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