



**Product:** [NTZL12AA048YEAA](#)

Indoor tight buffered distribution cable LSZH jacket 48F SM G.652.D, IEC 60332-1 rated

### Product Description

Indoor optical fiber distribution cable: 900µm LSZH tight buffer, Aramid yarn reinforcing, GRP Central strength member, Single LSZH jacket, 48 Fibers, SM G.652.D, IEC 60332-1 rated

### Technical Specifications

#### Product Overview

Product Category:	Fiber Distribution Cable
Suitable Applications:	High degree of flexibility suitable for backbone, horizontal, inner and inter-building installations; LSZH flame retardant performance for indoor application

#### Fiber Specifications

Fiber Type:	OS2, G.652.D
Fiber Core Diameter:	9 µm
Fiber Diameter:	125 µm
Buffer Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Buffer Construction:	Tight Buffer
Buffer Diameter:	900 µm
Fiber Count:	48
Fiber Color Coding:	TIA-598-D

#### Cable Construction

Number of Active Subunits:	4
Fibers Per Subunit:	12
Subunit Diameter:	5.0mm
Subunit Color:	Yellow
Subunit Strength Members:	Aramid yarn
Central Strength Member:	GRP

#### Outer Jacket Specifications

Strength Member:	Aramid Yarns
Jacket Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	14.7 mm (0.579 in)
Color:	Yellow

#### 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
Min. Bend Radius During Operation:	10 x Cable OD
Max. Tensile Strength During Installation:	1320 N (297 lbf)

Max. Tensile Strength During Operation:	400 N (90 lbf)
Crush Resistance:	Max. Crush Resistance During Installation : 1000 N/100 mm Max. Crush Resistance During Operation : 300 N/100 mm

#### 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:	185 kg/km (124 lbs/1000ft)
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#### Temperature Range

Operating Temperature Range:	-20°C to +60°C
Storage Temperature Range:	-20°C to +60°C

#### Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	IEC 60332-1-2
ISO/IEC Compliance:	IEC 60793-1-1IEC 60794-1-1, IEC 61034-2 - Smoke Density Min Transmittance = IEC 61034-2
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2)

#### Product Notes

Notes:	Subunit Identification: Sequential numbers printed on each subunit jacket.
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#### History

Update and Revision:	Revision Number: 0.56 Revision Date: 12-07-2023
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