



**Product:** [NTCL12AA024YEAA](#)

Indoor tight buffered optical fiber distribution cable with Single LSZH jacket  
24F SM G652.D, GB 31247 B1 rated

**Product Description**

Indoor optical fiber distribution cable: 900µm LSZH tight buffer, aramid yarn reinforcing, Single LSZH jacket, 24 fibers, SM G652.D - GB 31247 B1 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; Excellent burning behavior performance LSZH(low smoke emission and low smoke toxicity) is ideal for the buildings with very high safety requirements

**Fiber Specifications**

Fiber Type:	OS2, G.652.D
Fiber Core Diameter:	9 µm
Fiber Diameter:	125 µm
Buffer Material:	LSZH
Buffer Construction:	Tight buffer
Buffer Diameter:	900 µm
Fiber Count:	24
Fiber Color Coding:	TIA-598-D

**Outer Jacket Specifications**

Strength Member:	Aramid Yarns
Jacket Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	8.3 mm (0.33 in)
Color:	Yellow

**Optical Characteristics**

Wavelength	1310 nm	1550 nm
Max. Attenuation	0.36 dB/km	0.22 dB/km
Mode Field Diameter	8.8 µm	9.9 µm

**Mechanical Characteristics**

Min. Bend Radius During Installation:	20 x OD
Min. Bend Radius During Operation:	10 x OD
Max. Tensile Strength During Installation:	660 N (150 lbf)
Max. Tensile Strength During Operation:	200 N (45 lbf)
Crush Resistance:	Max Crush Resistance During Installation: 1000N/100mm, Max Crush Resistance During Operation: 300N/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:	62 kg/km (42 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
GB Compliance:	GB 31247 B1 (d0, t1, a1)
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 = 2.5 , IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment)

History

Update and Revision:	Revision Number: 0.31 Revision Date: 12-07-2023
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