



**Product:** [NTZL12AA012YEAA](#)

Indoor tight buffered distribution cable LSZH jacket 12F SM G.652.D, IEC 60332-1 rated

**Product Description**

Indoor optical fiber distribution cable: 900µm LSZH tight buffer, Aramid yarn reinforcing, Single LSZH jacket, 12 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:         | 12  |
| Fiber Color Coding:  | TIA-598-D                                       |

**Outer Jacket Specifications**

|                  |   |
|------------------|---|
| Strength Member: | Aramid Yarns                                    |
| Jacket Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter:   | 6.2 mm (0.24 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: | 660 N (150 lbf)   |
| Max. Tensile Strength During Operation:    | 200 N (45 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: | 40.3 kg/km (27.1 lbs/1000ft) |
|--------------------|------------------------------|

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)  |

History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.54 Revision Date: 12-07-2023 |
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