



Product: [NTZL53AA002AQAA](#)

Indoor tight buffered distribution cable LSZH jacket 2F MM 50µm OM3, IEC 60332-1 rated

Product Description

Indoor optical fiber distribution cable: 900µm LSZH tight buffer, Aramid yarn reinforcing, Single LSZH jacket, 2 Fibers, MM 50µm OM3, IEC 60332-1 rated

Technical Specifications

Product Overview

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|------------------------|---|
| 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

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| Fiber Type: | OM3 |
| Fiber Core Diameter: | 50 µm |
| Fiber Diameter: | 125 µm |
| Buffer Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Buffer Construction: | Tight Buffer |
| Buffer Diameter: | 900 µm |
| Fiber Count: | 2 |
| Fiber Color Coding: | TIA-598-D |

Outer Jacket Specifications

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| Strength Member: | Aramid Yarns |
| Jacket Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter: | 3.2 mm (0.13 in) |
| Color: | Aqua |

Optical Characteristics

| Wavelength | 850 nm | 1300 nm |
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| Max. Attenuation | 3.0 dB/km | 1.0 dB/km |
| Min. Effective Modal Bandwidth (EMB) | 2000 MHz.km | |

Mechanical Characteristics

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| 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 |

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|---|-------------------|
| Cable Max. Crush Resistance Operation (Long Term) | IEC 60794-1-21-E3 |
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|--------------------|------------------------------|
| Bulk Cable Weight: | 11.3 kg/km (7.59 lbs/1000ft) |
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Temperature Range

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|------------------------------|----------------|
| Operating Temperature Range: | -20°C to +60°C |
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|----------------------------|----------------|
| Storage Temperature Range: | -20°C to +60°C |
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Standards and Compliance

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

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