



Product: [NTBL54AA048AQAA](#) 

Indoor tight buffered distribution cable LSZH jacket 48f MM 50µm OM4. IEC 60332-3C rated.

Product Description

Indoor tight buffered optical fiber distribution cable with 900µm LSZH tight buffer, stranded together with aramid yarn reinforcing and flame retardant LSZH jacket, 48 fibers MM 50µm OM4. IEC 60332-3C 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 LSZH flame retardant performance for indoor application |

Fiber Specifications

| | |
|----------------------------|---|
| Fiber Type: | OM4 |
| Fiber Core Diameter: | 50 µm |
| Fiber Diameter: | 125 µm |
| Fiber Buffer Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Fiber Buffer Construction: | Tight Buffer |
| Fiber 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 Color: | Aqua |
| Fiber SubUnit Strength Members: | Aramid Yarns |
| Central Strength Member Type: | GRP |

Outer Jacket Specifications

| | |
|---------------------|---|
| Jacket Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter: | 14.7 mm (0.579 in) |
| Outer Jacket Color: | Aqua |

Optical Characteristics

| Wavelength | 850 nm | 1300 nm |
|--------------------------------------|-------------|-----------|
| Max. Attenuation | 3.0 dB/km | 1.0 dB/km |
| Min. Effective Modal Bandwidth (EMB) | 4700 MHz.km | |

Mechanical Characteristics

| | |
|--|---|
| Minimum Bend Radius During Installation: | 20 x Cable OD |
| Minimum Bend Radius During Operation: | 10 x Cable OD |
| Max. Tensile Strength During Installation: | 1320 N (297 lbf) |
| Max. Tensile Strength During Operation: | 660 N (150 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: | 185.0 kg/km (124.3 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 60332-3-24 |
| ISO/IEC Compliance: | IEC 60793-1-1IEC 60794-1-1 |
| European Directive Compliance: | EU Directive 2011/65/EU (RoHS 2) |

Product Notes

| | |
|--------|--|
| Notes: | Subunit Identification: Sequential numbers printed on each subunit jacket. |
|--------|--|

History

| | |
|----------------------|---|
| Update and Revision: | Revision Number: 0.16 Revision Date: 12-07-2023 |
|----------------------|---|

© 2026 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.