

### Cleerline BendSafe® Fiber Optic Patch Cords

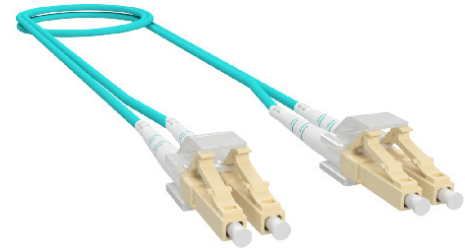
Cleerline BendSafe patch cords are engineered with enhanced bend-insensitive optical fiber that outperforms traditional fiber in durability, flexibility, and real-world reliability. With its proprietary layered glass construction, BendSafe delivers exceptional strength, durability and bend tolerance—without the bulk of armored designs. Cables built with Cleerline BendSafe fiber provide a performance tier above conventional bend-insensitive options, making them an ideal choice for mission-critical applications and rough installations. Each cable is 100% tested to exceed industry standards for insertion loss and reflectance.

### Ideal Choice for Demanding Applications

Designed for demanding environments, Cleerline BendSafe patch cords deliver robust performance for data centers, broadband systems, industrial automation, security networks, audio-visual installations and other applications demanding reliable fiber performance. With enhanced durability and bend tolerance that outperform traditional bend-insensitive fibers, BendSafe offers improved resilience, simplified handling, and long-term reliability.

### Flexible Configurations and Custom Options

Cleerline BendSafe patch cords are available in duplex OM3, OM4 (Multimode), and OS2 (Single-mode) constructions. LC connectors are clipped as standard, with SC and other connector styles available by request. Custom lengths and cable builds are available to meet your project's exact requirements—delivering optimized performance and installation flexibility.



### FEATURES AND BENEFITS

- **Proprietary BendSafe® Glass** – Engineered with advanced glass construction to deliver superior bend tolerance and durability, outperforming traditional bend-insensitive fiber options.
- **Rated for BendPerformance™** – with significantly greater bend resilience for easier installation in tight or complex spaces.
- **Armor-Free Design** – Combines durability and strength without the bulk of armor, making it ideal for standard-density and space-conscious applications.
- **100% Performance Tested** – Every cable exceeds industry standards for insertion loss and reflectance, ensuring consistent, high-quality results.
- **Available in OM3, OM4, and OS2** – Duplex construction with clipped LC connectors; SC and other connector styles available upon request.
- **Custom Lengths and Configurations** – Tailored cable lengths and connector options to precisely meet your project's unique requirements.

| PART NUMBER        | CONSTRUCTION                      | SIDE A | SIDE B | XX = LENGTH (METERS)       |
|--------------------|-----------------------------------|--------|--------|----------------------------|
| CTG-B3C-02LULU-XXm | BendSafe, 1.6 mm, Duplex, OM3, NR | LC UPC | LC UPC | 0.5m, 1.0m to 10m - custom |
| CTG-B3C-02LUSU-XXm | BendSafe, 1.6 mm, Duplex, OM3, NR | LC UPC | SC UPC | 0.5m, 1.0m to 10m - custom |
| CTG-B3C-02SUSU-XXm | BendSafe, 1.6 mm, Duplex, OM3, NR | SC UPC | SC UPC | 0.5m, 1.0m to 10m - custom |

## PART NUMBER MATRIX\*

Example P/N #CTG-B3C-02LULU-03m = BendSafe, OM3, 1.6 mm Duplex, LC UPC to LC UPC, 3 meter patch cable

| BENDSAFE, OM3, 1.6 MM DUPLEX | CONNECTOR SIDE A | CONNECTOR SIDE B | LENGTH     |
|------------------------------|------------------|------------------|------------|
| CTG-B3C-02                   | <b>XX</b>        | <b>XX</b>        | <b>XXm</b> |
|                              | LU = LC UPC      | LU = LC UPC      | Meters     |
|                              | SU = SC UPC      | SU = SC UPC      |            |

\*Refer to Cleerline's Patch Cable Ordering Guide for complete part matrix and information.

## OPTICAL FIBER CHARACTERISTICS

| FIBER        |                               |
|--------------|-------------------------------|
| Fibers       | 2                             |
| Type         | BendSafe 50/125 Multimode OM3 |
| Coating      | 250 µm & 900 µm Tight Buffer  |
| Color Coding | Per TIA-598-D                 |

| JACKET          |                           |
|-----------------|---------------------------|
| Type            | PVC non-rated (NR)        |
| Color           | Aqua                      |
| Outer Diameter  | 1.6 mm x 2 (3.4 mm)       |
| Markings        | Sequential Meter Markings |
| Strength Member | Aramid Yarns              |

| CONNECTORS           |                              |
|----------------------|------------------------------|
| Polish               | UPC                          |
| Insertion loss       | Typ ≤ 0.15 dB, Max ≤ 0.35 dB |
| Return Loss, Typical | ≥ 26 dB                      |
| Ferrule              | Ceramic                      |
| Color                | Beige                        |

| OPTICAL CHARACTERISTICS - MULTIMODE / OM3 |         |                 |
|-------------------------------------------|---------|-----------------|
| Attenuation Coefficient                   | 850 nm  | ≤ 2.4 dB/km     |
|                                           | 1300 nm | ≤ 0.6 dB/km     |
| Numerical Aperture                        |         | 0.200 ± 0.015   |
| Overfilled Launch Bandwidth               | 850 nm  | ≥ 1500 MHz · km |
|                                           | 1300 nm | ≥ 500 MHz · km  |
| Effective Modal Bandwidth                 | 850 nm  | ≥ 2000 MHz · km |
| High Performance EMB                      | 850 nm  | ≥ 4700 MHz · km |

| PHYSICAL CHARACTERISTICS - MULTIMODE / OM3          |               |
|-----------------------------------------------------|---------------|
| Core Diameter                                       | 50.0 ± 2.5 µm |
| Core Non-circularity                                | ≤ 6%          |
| Core / Hybrid Cladding Concentricity Error          | ≤ 3.0 µm      |
| Hybrid Cladding Diameter                            | 125 ± 2 µm    |
| Hybrid Cladding Non-Circularity                     | ≤ 2.0%        |
| Soft Peel Jacket Identifier                         | 245 ± 10 µm   |
| Coating Strip Force                                 | 100 g         |
| Fiber Curl                                          | ≥ 2 m         |
| Proof Test                                          | 100 kpsi      |
| Dynamic Fatigue (n <sub>d</sub> )<br>23°C, 41% R.H. | = 27          |
| Environmental                                       | -20 to +70 °C |

## COMPLIANCE

- **RoHS 2 Compliant** – Directive 2011/65/EU
- **100% Insertion Loss Tested** – Per TIA-568.3-D
- **End-Face Inspected** – Verified to IEC 61300-3-35 standards
- **Optical Fiber Standards** – Meets or exceeds TIA-492AAAC, IEC 60793-2-10 type A1a.2
- **Jacket Material** – PVC (NR); Country of Origin: Non-specific

