

# G202-xxUSM-4LC

TPU Single-mode Armored Fiber Optical Cable, 4-core, LC connectors

Product number:3.03

#### **Summary**

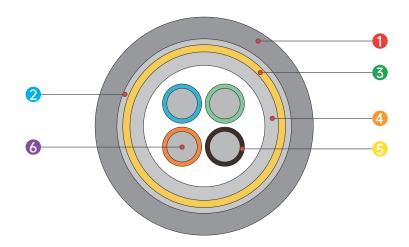
G202-xxUSM-4LC is a four-core single-mode optical fiber cable finished product, which is mainly used with audio and video optical fiber extenders. This four-core fiber with LC-type connectors can reach up to 2000 meters while maintaining a 10 Gbps bandwidth. Different from generic optical fiber cables, Beetek designed their fiber using tough and wear-resistant TPU sheathing, and the inside uses stainless steel armor, Kevlar and a metal braided structure. This structure ensures the whole cable has strong tensile and compressive strength. At the end points, the product is also equipped with integrated LC connectors, which are not easily broken like their generic counterparts. Plus, the cable comes with a captive dust cap and Beetek's patented aluminum protector connector as standard to ensure repeated use in harsh environments.

<sup>\*</sup>Beetek's optional DF and PCD Series cable reels are almost a necessary accessory for quick and tidy deployment and retracting of the fiber cables.
\*Fiber length, core quantity and connector types can all be customized.





#### Product view

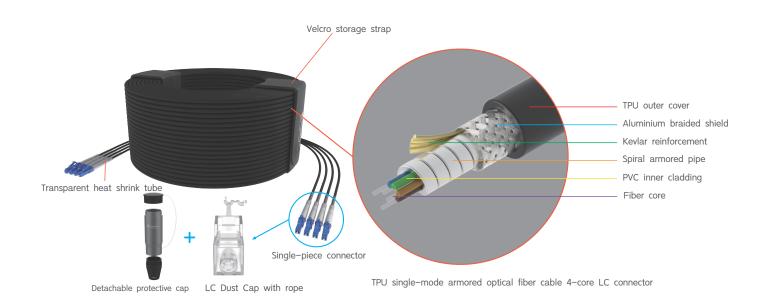


| number | name                    | number | name                 |
|--------|-------------------------|--------|----------------------|
| 0      | TPU outer quilt         | 4      | Spiral sheathed tube |
| 2      | Aluminum braided shield | 5      | PVC inner cladding   |
| 3      | Kevlar reinforcement    | 6      | Fiber core           |

## **Technical Characteristics**

- + Tactical armored optical four-core fiber with LC connectors.
- + Adopts high-quality YOFC single-mode G657.A1 fiber core.
- ◆ The transmission rate is 10Gpbs up to 2000 meters.
- The pliable yet rugged TPU outer sheath and built-in armored piping structure make the cable both durable and flexible at the same time.
- + The interior uses DuPont Kevlar and metal woven reinforcement members.
- + LC connectors are integrated into the cable for strong and reliable connections.
- Maintains the characteristics of anti-freezing, wear resistance, tensile resistance and pressure resistance. Built to last in all conditions.
- + Comes with captive LC dust caps and Beetek's patented protector connector.
- + Comes standard with Velcro straps for easy storage and deployment.
- + Optional DF and PCD Series cable reels are available for superior cable management.

### **Product Details**



# Product parameter

| name                                  | parameter  |  |
|---------------------------------------|--|--|
| Connector Type                        | LC   |  |
| Connector Color                       | Dark blue  |  |
| Fiber Type                            | Single-mode (9/125 μm)   |  |
| Fiber Wavelength                      | 1310nm ~ 1550nm  |  |
| Fiber Core Brand                      | YOFC   |  |
| Number of cores                       | 4  |  |
|                                       | 1M   |  |
| Branch Length Reinforcement Structure | 'Dupont Kevlar with metal weave  |  |
| Reinforcement Structure               | ·  |  |
| Structural Layers                     | Tightly wrapped optical fiber + spiral-armored tube<br>+ Kevlar + metal braid + outer jacket |  |
| Jacket Outer Diameter                 | 5.0mm ± 0.1mm  |  |
| Jacket Material                       | Matt frosted TPU   |  |
| Jacket Color                          | Matt Black   |  |
| Spiral Tube Diameter                  | 2. 8mm ± 0. 1mm  |  |
| Spiral Tube Material                  | SUS 201 Stainless steel  |  |
| Spiral Tube Color                     | Silver   |  |
| Core Cladding Diameter                | 0. 6mm ± 0. 05mm * 4   |  |
| Core Cladding Material                | PVC  |  |
| Core Cladding Color                   | Blue, Orange, Green, Brown   |  |
| Core Diameter                         | 9.0 $\mu$ m $\pm 0.4$ $\mu$ m  |  |
| Cladding Diameter                     | 124.8 μm ±0.7 μm   |  |
| Cladding out of roundness             | ≤ 0.7 %  |  |
| Core/cladding Concentricity Erro      |  |  |
| Coating Diameter                      | 245±5 μm   |  |
| Coating layer out of roundness        | ·  |  |
| Cladding/coating Concentricity Err    |  |  |
| Attenuation Coefficient               | 1310nm≤0.4 dB / km; 1550nm≤0.3 dB / km   |  |
| Tensile (LC connector)                | Long-term 50N; short-term 60N  |  |
| Tensile (optical cable)               | Long-term 400N; short-term 800N  |  |
| Compressive Strength                  | Long-term 2000N /10cm; short-term 3000N /10cm  |  |
| Linear Rolling                        | 300N/cm armor layer deformation <0.3mm, additional attenuation <0.2dB                        |  |
| Minimum Bending Radius                | Dynamic > 10D; Static > 20D (*D is the outer diameter of the cable)                          |  |
| Transmission Rate                     | 10Gb /s within 2000 meters   |  |
| Operating Temperature                 | −20~+85° C   |  |
| Available Lengths                     | 50、100、150、200、300M  |  |
| Included Accessories                  | Protective cap GH02 x 2, Dust cap LCF01 x 8  |  |
| Optional Products                     | Optional DF \ PCD series reel car (storage within 50-850 meters)                             |  |
| Compatible Products                   | M1 series fiber optical extenders  |  |
|                                       |  |  |

# Dimensional drawing



- Connector Type LC
- Connector size 4.52mm \* 4.52mm \* 21.2mm
- Fiber Core Brand YOFC
- Branch Length 1M

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