

## G202-xxU-6LC

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

Product number:3.02

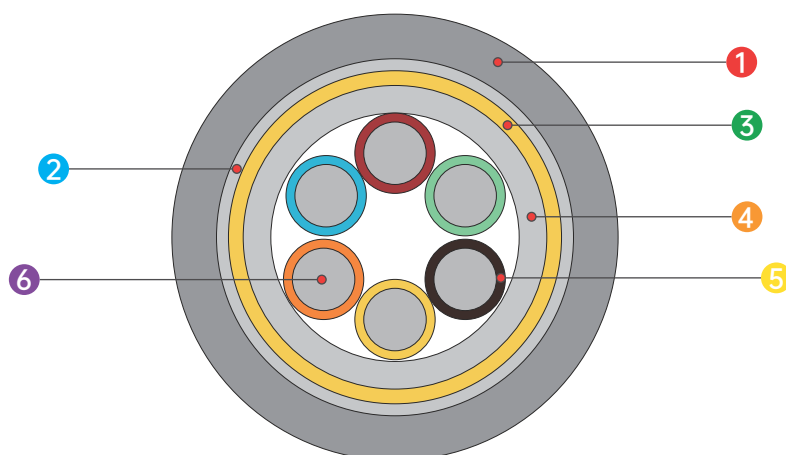
## Summary

**G202-xxU-6LC** is a six-core multi-mode optical fiber cable finished product, which is mainly used with audio and video optical fiber extenders. This six-core fiber with LC-type connectors can reach up to 300 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.

\*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

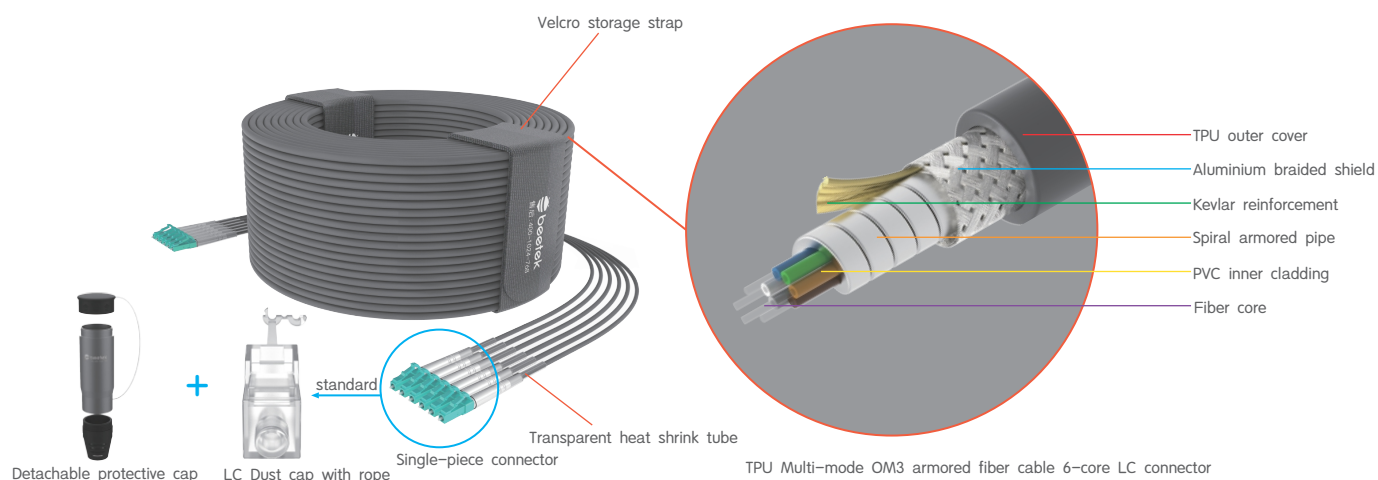


number	name	number	name
1	TPU outer quilt	4	Spiral sheathed tube
2	Aluminum braided shield	5	PVC inner cladding
3	Kevlar reinforcement	6	Fiber core

## Technical Characteristics

- ✦ Tactical armored optical six-core fiber with LC connectors.
- ✦ Adopts high-quality YOFC multi-mode OM3 fiber core.
- ✦ The transmission rate is 10Gpbs up to 300 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	Light blue
Fiber Type	Multi-mode OM3-300 (50/125 $\mu$ m)
Fiber Wavelength	850nm ~ 1300nm
Fiber Core Brand	YOFC
Number of cores	6
Branch Length	1M
Reinforcement Structure	'Dupont Kevlar with metal weave
Structural Layers	Tightly wrapped optical fiber + spiral-armored tube + Kevlar + metal braid + outer jacket
Jacket Outer Diameter	5.0mm $\pm$ 0.1mm
Jacket Material	Matt Frosted TPU
Jacket Color	Matte Gray
Spiral Tube Diameter	2.8mm $\pm$ 0.1mm
Spiral Tube Material	SUS 201 Stainless steel
Spiral Tube Color	Silver
Core Cladding Diameter	0.6mm $\pm$ 0.05mm * 6
Core Cladding Material	PVC
Core Cladding Color	Blue, Orange, Green, Brown, Gray, White
Core Diameter	50.0 $\mu$ m $\pm$ 2.5 $\mu$ m
Cladding Diameter	124.8 $\mu$ m $\pm$ 1.0 $\mu$ m
Cladding out of roundness	$\leq$ 1.0 %
Core/cladding Concentricity Error	$\leq$ 1.5 $\mu$ m
Coating Diameter	245 $\pm$ 7 $\mu$ m
Coating layer out of roundness	$\leq$ 6.0 %
Cladding/coating Concentricity Error	$\leq$ 12.0 $\mu$ m
Full Bandwidth	850nm $\geq$ 1500MHz · km; 1300nm $\geq$ 500MHz · km
Effective Bandwidth	850nm $\geq$ 2000MHz · km; 1300nm $\geq$ 500MHz · km
Attenuation Coefficient	850nm $\leq$ 3.5 dB / km; 1300nm $\leq$ 1.5 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 300 meters
Operating Temperature	-20~+85 $^{\circ}$ 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	Fiber Optic Extender Products of M1 Series

## Dimensional drawing



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