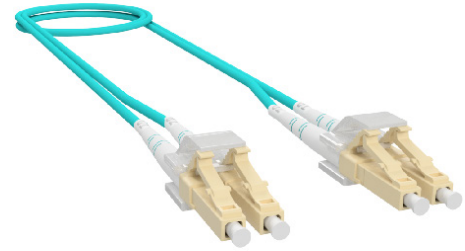


Cleerline SSF™ Fiber Optic Patch Cords

Cleerline SSF patch cords are built with our proprietary SSF glass—the strongest optical fiber in the industry. Unlike traditional fiber, SSF features an integral polymer coating that dramatically increases bend tolerance and durability while eliminating the need for bulky armored construction. Rated for ExtremeBend, these patch cables are designed to maintain optical performance even under tight bends, providing exceptional reliability and ease of installation in space-constrained environments. Each cable is 100% performance-tested for insertion loss and reflectance.



Superior for High-Demand Applications

Engineered for the rigors of today's connectivity environments, Cleerline SSF patch cords are an ideal solution for high-density data centers, broadband infrastructure, industrial control networks, and security or surveillance systems. The strength and flexibility of SSF glass makes these cables especially well-suited for mission-critical applications where uptime, resilience, and simplified handling are essential.

Flexible Configurations and Custom Options

Cleerline SSF patch cords are available in duplex OM3, OM4 (Multimode) and OS2 (Single-mode) constructions. Standard LC connectors are provided clipped, SC, and other connector types available by request. Custom lengths, connector styles, and cable builds are available to meet specific project needs—delivering performance and versatility tailored to your exact requirements.

FEATURES AND BENEFITS

- **Proprietary SSF™ Glass** – Delivers industry-leading durability with an Nd=30 rating and up to 10,000× the bend resistance over traditional fibers.
- **Rated for ExtremeBend®** – Maintains optical performance in tight routing spaces with ultra-low bend loss.
- **Armor-Free Design** – Superior SSF strength without added bulk, ideal for high-density environments
- **Built for Mission-Critical Applications** – Optimized for maximum uptime and reliability in data center, broadband, and industrial deployments
- **100% Performance Tested** – Each cable exceeds industry standards for insertion loss and reflectance
- **Available in OM3, OM4, and OS2** – Duplex construction with clipped LC connectors; other options available
- **Custom Configurations Available** – Tailored lengths and connector types to meet exact project specifications

PART NUMBER	CONSTRUCTION	SIDE A	SIDE B	XX = LENGTH (METERS)
CTG-S4E-02LULU-XXm	SSF, 2.0 mm, Duplex, OM4, NR	LC UPC	LC UPC	0.5m, 1.0m to 10m
CTG-S4E-02LUSU-XXm	SSF, 2.0 mm, Duplex, OM4, NR	LC UPC	SC UPC	0.5m, 1.0m to 10m
CTG-S4E-02SUSU-XXm	SSF, 2.0 mm, Duplex, OM4, NR	SC UPC	SC UPC	0.5m, 1.0m to 10m

PART NUMBER MATRIX*

Example P/N #CTG-S4E-02LULU-03m = SSF, OM4, 2.0 mm Duplex, LC UPC to LC UPC, 3 meter patch cable

SSF, OM4, 2.0 MM DUPLEX	CONNECTOR SIDE A	CONNECTOR SIDE B	LENGTH
CTG-S4E-02	XX	XX	XXm
	LU= LC UPC	LU= LC UPC	Meters
	SU = SC UPC	SU = SC UPC	Example: 03m

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

OPTICAL FIBER CHARACTERISTICS

FIBER	
Fibers	2
Type	50/125 Multimode OM4
Coating	250 um & 900um Tight Buffer
Color Coding	Per TIA/EIA 598D

JACKET	
Type	PVC non-rated (NR)
Color	Aqua (Option: Magenta)
Outer Diameter	2.0 mm x 2 (4.2 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 / OM4		
Attenuation Coefficient	850 nm	≤ 3.5 dB/km
	1300	≤ 1 dB/km
Bend Induced Attenuation, 850 nm	2 turns, 7.5mm	≤ 0.2 dB
	2 turns, 15mm	≤ 0.5 dB
Overfilled Modal Bandwidth	850 nm	≥ 3500 MHz · km
	1300 nm	≥ 500 MHz · km
High Performance EMB	850 nm	≥ 4700 MHz · km

PHYSICAL CHARACTERISTICS - MULTIMODE / OM4	
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 _d) 23°C, 41% R.H.	= 30
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-492AAAD, IEC 60793-2-10 type A1a.3
- **Jacket Material** – PVC (NR); Country of Origin: Non-specific

