Cleerline SSF™ Jumpers

MTP® Multimode OM4, 3.0 mm, NR

Cleerline SSF™ Fiber Optic Jumpers

Cleerline SSF MTP jumpers 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 to exceed industry standards for insertion loss and reflectance.

Superior for High-Demand Applications

Engineered for the rigors of today's connectivity environments, Cleerline SSF Jumpers 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 MTP® cables are available in 8, 12, or 24 fiber OM3, OM4 (multimode) and OS2 (single-mode) constructions. Standard assemblies feature US Conec Elite MTP® connectors, and alternate fiber counts, genders, and polarity options are available by request. Custom lengths, trunk builds, and breakouts 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.[1]
- **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** – MTP construction; 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-S4F-12M3M3-XX	SSF, 3.0 mm, MTP-12, OM4, NR	MTP-F UPC	MTP-F UPC	0.5m, 1.0m to 10m
CTG-S4F-12M4M3-XX	SSF, 3.0 mm, MTP-12, OM4, NR	MTP-M UPC	MTP-F UPC	0.5m, 1.0m to 10m
CTG-S4F-12M4M4-XX	SSF, 3.0 mm, MTP-12, OM4, NR	MTP-M UPC	MTP-M UPC	0.5m, 1.0m to 10m
CTG-S4F-24M3M3-XX	SSF, 3.0 mm, MTP-24, OM4, NR	MTP-F UPC	MTP-F UPC	0.5m, 1.0m to 10m
CTG-S4F-24M4M3-XX	SSF, 3.0 mm, MTP-24, OM4, NR	MTP-M UPC	MTP-F UPC	0.5m, 1.0m to 10m
CTG-S4F-24M4M4-XX	SSF, 3.0 mm, MTP-24, OM4, NR	MTP-M UPC	MTP-M UPC	0.5m, 1.0m to 10m

PART NUMBER MATRIX*

Example P/N #CTG-S4F-12M3M3-03m = SSF, OM4, 3.0 mm, 12 fiber, MTP UPC female, 3 meter (default Method B, other methods available)

SSF, OM4, 3.0 MM,	FIBER COUNT	CONNECTOR SIDE A	CONNECTOR SIDE B	LENGTH
CTG-S4F-	**XX**	**XX**	**XX**	**XXm**
	12	M3 = MTP UPC Female	M3 = MTP UPC Female	Meters
	24	M4 = MTP UPC Male	M4 = MTP UPC Male	Example: 03m

*Refer to Cleerline's Patch Cable Ordering Guide for more information and additional options.

**Polarity: TIA-568.3-D Methods A, B, or C available (default Method B). Keying: key-up/key-down adapters; pinning per IEC 61754-7-1/-7-2.

OPTICAL FIBER CHARACTERISTICS

FIBER	
Fibers	8, 12, 24
Type	50/125 Multimode OM4
Coating	250 µm S-Type Primary Layer
Color Coding	Per TIA-598-D

JACKET	
Type	PVC non-rated (NR)
Color	Aqua
Outer Diameter	3.0 mm
Markings	Sequential Meter Markings
Strength Member	Aramid Yarns

CONNECTORS	
Insertion loss (mated pair)	Typ ≤ 0.15–0.20 dB, Max ≤ 0.35 dB
Return Loss	≥ 26 dB
Polish	UPC
Ferrule	Multi-fiber flat ferrule (US Conec MTP® Elite)
Color	Aqua = UPC
Gender/Pins	Female = no pins / Male = with pins

*24-fiber typical values may be up to 0.02–0.04 dB higher than 12-fiber

OPTICAL CHARACTERISTICS - MULTIMODE / OM4		
Attenuation Coefficient	850 nm	≤ 3.5 dB/km
	1300 nm	≤ 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
Operating (installed/in use):	–20 to +70 °C (–4 to +158 °F)
Storage/transport:	–40 to +75 °C (–40 to +167 °F)

COMPLIANCE

- **RoHS 2 Compliant** – Directive 2011/65/EU
- **100% Insertion Loss Tested** – Per TIA-568.3-D
- **End-Face Inspected** – IEC 61300-3-35
- **Optical Fiber Standards** – Meets or exceeds TIA-492AAAD, IEC 60793-2-10 type A1a.3
- **Jacket Material** – Non-Rated (NR); Country of Origin: Non-specific (NS)
- **MTP®** - Is a registered trademark of US Conec, Ltd