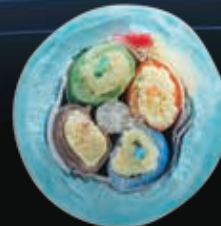


SSF BULK FIBER SOLUTIONS

**Stronger, Safer
and Faster than
standard fiber
optic cable!**

- **10,000x's THE FLEX LIFE OF STANDARD FIBER!**
Extremely high mechanical fatigue rating. This makes SSF Fiber 10,000x's less susceptible to breaking due to bending. SSF Fiber has a pull tension that is 2.5 – 4x's that of UTP!
- **NEARLY IMPOSSIBLE TO GENERATE GLASS SLIVERS DURING STANDARD USE!** SSF Fiber is completely safe to handle & will not present the inherent safety concerns that conventional glass fiber brings.
- **33% LABOR SAVINGS USING OUR FIELD TERMINABLE SC PLUGS.** The termination process for SSF Fiber is very simple; it does not require a trained/certified fiber technician.
- **THE PATENTED POLYMER COATING ON SSF FIBER.** Guarantees no contamination reaches the underlying glass. Moisture, dirt & even human skin oils are kept from the signal carrying core & cladding by the proprietary coating. This feature increases the lifetime of the fiber well above & beyond standard fiber constructions.
- **MICRO-DISTRIBUTION SSF FIBER IS THE ULTIMATE IN SMALL DIAMETER FIBER CABLE.** Have a small conduit? Pull many more fibers than standard construction tight buffer fiber solutions. Even the armored fiber measures in under ¼ inch in diameter for up to 12 fibers.



LIBERTY
AV SOLUTIONS

WWW.LibAV.COM | 800.530.8998

RUN WITH US


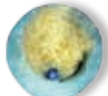





Liberty's SSF fiber solution is a leap ahead for field installation! Increasing the speed, safety & efficiency of fiber installations while reducing the tooling required to terminate fiber optic cables!

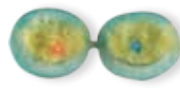






Features and Benefits

- Integral proprietary & patented coating provides incredible glass protection
- Very small diameter distribution fiber for maximum fiber counts in conduit limited installations
- Simplified termination process designed for ease of use & installation efficiency gains
- Bend longevity for 10,000x's longer life time than normal fibers
- Increased safety factor due to the incredible bend insensitivity
- Glass fiber remains protected at all times from the elements
- High mechanical strength & superior fatigue values
- Ultra low attenuation loss on tight bend radius
- Exclusive 250um Soft Peel® jacket identifier in standard fiber color codes

Products

- OM3 50 micron Laser Optimized fiber cables, OM2 & singlemode
- Two (2), four (4), & six (6) fiber Micro-Distribution format cables with a maximum diameter of 3.2mm in both plenum and riser formats
- One (1) & two (2) fiber assembly style format for simplex & duplex patch cords or one (1) & two (2) fiber installations
- Four (4) fiber Breakout format cables with 2mm sub units in plenum indoor & indoor/outdoor formats
- Easy apply SC connectors for quick & reliable field termination in convenient 10-packs
- SC-SC, LC-LC & SC-LC duplex fiber jumpers in one (1), two (2), three (3), five (5) & 10m lengths

Micro-Distribution Style FIBER OPTIC CABLE 1 FIBER OM3 50/125 MULTIMODE	1FPINSM10-D 
Micro-Distribution Style FIBER OPTIC CABLE 1 FIBER OM3 50/125 MULTIMODE	1FRINSM10-D 
Breakout Style INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE	2FPINSM10-BO 
Micro-Distribution Style INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE	2FPINSM10-D 
Assembly Style INDOOR FIBER OPTIC CABLE OM3 50/125 MULTIMODE	2FPINSM10-Z 
Breakout Style INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE	2FRINSM10-BO 
Micro-Distribution Style INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE	2FRINSM10-D 

Assembly Style INDOOR FIBER OPTIC CABLE OM3 50/125 MULTIMODE	2FRINSM10-Z 
Micro-Distribution Style INDOOR FIBER OPTIC CABLE 1 FIBER OM3 50/125 MULTIMODE	6FPINSM10-D 
Micro-Distribution Style INDOOR FIBER OPTIC CABLE 6 FIBER OM3 50/125 MULTIMODE	6FRINSM10-D 
Breakout Style INDOOR FIBER OPTIC CABLE OM3 50/125	4FPINSM10-BO 
Micro-Distribution Style INDOOR FIBER OPTIC CABLE 1 FIBER OM3 50/125 MULTIMODE	4FPINSM10-D 
Breakout Style INDOOR FIBER OPTIC CABLE 2 FIBER OM3 50/125 MULTIMODE	4FRINSM10-BO 
Micro-Distribution Style INDOOR FIBER OPTIC CABLE 1 FIBER OM3 50/125 MULTIMODE	4FRINSM10-D 

Liberty's SSF fiber redefines how optical cables can be installed and terminated. SSF fiber optics incorporate a patented polymeric coating that surrounds the glass fiber. SSF fibers are stronger, safer and allow for faster terminations compared to all other glass fibers.

SSF fiber is compatible with all common connector systems for standard 50/125 multimode and 9/125 single mode fibers and are available in today's most common cabling configurations for optical cables.

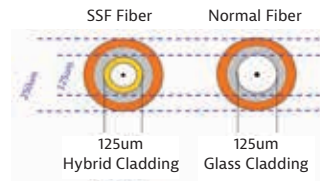
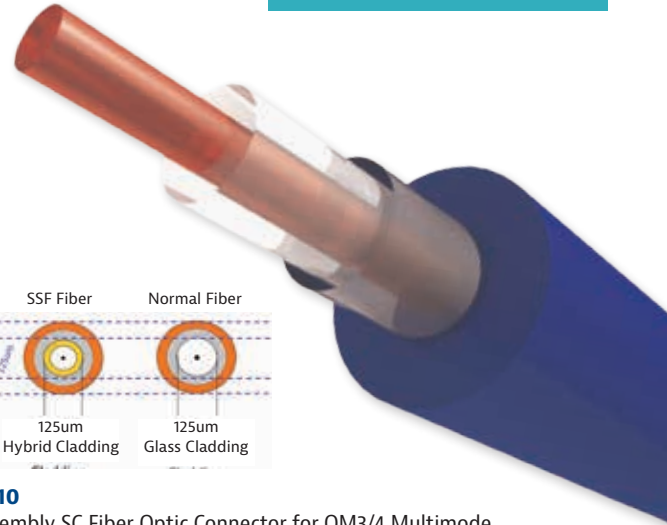
SSF fiber optic cabling eliminates many of the processes involved in the termination of fiber optic cable while adding strength and safety that is unmatched by any other optical fiber. SSF's coated fiber provides protection for bend longevity assured for 10,000 x's longer lift times and superior mechanical strength compared to all other commercially available glass fibers. This allows the installer to quickly terminate mechanical splice style connections and eliminates the imperfections or scarring of the glass caused by stripping when terminating either mechanical or epoxy style connectors. SSF supports all broadband applications.

Liberty's SSF fiber is compatible with all common connector systems on the market for 50/125um multimode and 9/125um single mode fiber optic cables. Get your connectors and the complete termination kit at Liberty!

STRONGER

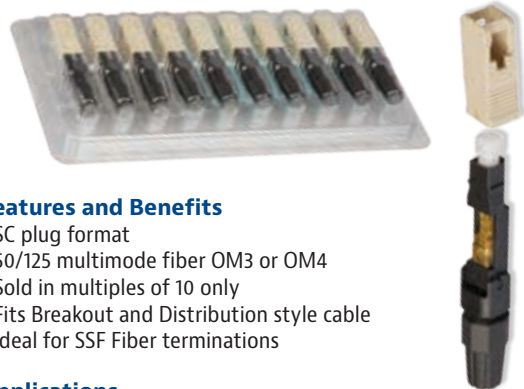
SAFER

FASTER!



FASCM10

Field Assembly SC Fiber Optic Connector for OM3/4 Multimode



Features and Benefits

- SC plug format
- 50/125 multimode fiber OM3 or OM4
- Sold in multiples of 10 only
- Fits Breakout and Distribution style cable
- Ideal for SSF Fiber terminations

Applications

- 10/100/1000BaseT ethernet, high bandwidth digital media
- Audio, video & security



CONNECTOR PACK NOT INCLUDED, PART #FASCM10

LWFOFKT

Field Assembly Fiber Optic Termination kit

Features and Benefits

- Termination tooling kit for SC, LC & ST connectors
- Includes VFL, cleaver, scissors, stripper
- Ideally set up for SSF Fiber termination

Applications

- Applying field assembly fiber optic connectors
- Can be adjusted for other brand connectors

TECH SPECS

Liberty SSF 50/125um Specialty OM3 Multimode Optical Fiber Characteristics Conditions Specified Values Unit SSF conforms to the requirement of IEC 60793 A1a, ISO/IEC 11801 & ITU-T G.651.1. 850 nm Laser-Optimized 50 µm-core multimode fiber for 10 Gb/s & above applications

PHYSICAL CHARACTERISTICS

Core Diameter 50.0 ± 2.5 (µm)
Core Non-circularity ≤ 5 (%)
Core / Hybrid Cladding Concentricity Error ≤ 3.0 (µm)
Hybrid Cladding Diameter 125 ± 1 (µm)
Hybrid Cladding Non-Circularity ≤ 3.0 (%)
Protective Coating Concentricity Error ≤ 3.0 (µm)
Soft-Peel Jacket Identifier 245 ± 5
Coating Strip Force (typical) ≤ 100 (g)
Color Coating Diameter 250 ± 10 (µm)
Fiber Curl ≤ 2 (m)
Proof Test 100 (Kps)
Bend Induced Attenuation at 1300 nm ≤ 1.0 (dB)
(100 turns around a mandrel of 75 mm diameter)
Dynamic fatigue 230C, 41%RH (nd) >30
Length (Typical) 1.0 – 8.8 (Km)

OVERFILLED MODAL BANDWIDTH

850 nm ≤ 1500 (MHz√km)
1300 nm ≤ 500 (MHz√km)
Differential Mode Delay 850nm ≤ 2000 (MHz-km)

BACKSCATTER CHARACTERISTICS

Attenuation Directional Uniformity ≤ 0.05 (dB/km)
Attenuation Uniformity ≤ 0.05 (dB)
Group Index of Refraction
850 nm 1.481
1300 nm 1.476
Attenuation Directional Uniformity ≤ 0.05 (dB/km)
Attenuation Uniformity ≤ 0.05 (dB)
Group Index of Refraction
850 nm 1.481
1300 nm 1.476

ENVIRONMENTAL CHARACTERISTICS

Temperature Dependence at 850 nm and 1300 nm ≤ 0.1 (dB/km)
Induced Attenuation – 400C to +850C
Water Soak Dependence at 850 nm and 1300 nm ≤ 0.2 (dB/km)
Induced Attenuation at 230C for 30 days
Damp Heat Dependence at 850 nm and 1300 nm ≤ 0.2 (dB/km)
Induced Attenuation at 850C, 85%R.H., 30 days
Dry Heat Dependence at 850 nm and 1300 nm ≤ 0.2 (dB/km)
Induced Attenuation at 850C, 85%R.H., 30 days

OPTICAL CHARACTERISTICS*

Attenuation Coefficient
850 nm ≤ 3.0 (dB/km)
1300 nm ≤ 1.0 (dB/km)
Numerical Aperture 0.200 ± 0.015

*Ensured via minEMBC per TIA/EIA 455-220A and IEC 60793-1-49, for high performance laser based systems.

DOM3NLCLC | Stronger, Safer, Faster (SSF) Lifetime Fiber Optic Patch cable OM3 Laser Optimized Multimode LC-L



Features and Benefits

- Duplex LC to Duplex LC FPC/SPC format connectors
- Stronger, Safer, Faster (SSF) fiber bulk cable
- 10,000 times the flex life of standard fiber cables
- Two (2) fiber 50/125 laser optimized multimode OM3 fiber
- Standard lengths 1, 2, 3, 5 & 10m
- NEC OFNR, CEC FT4 & RoHS compliant

Applications

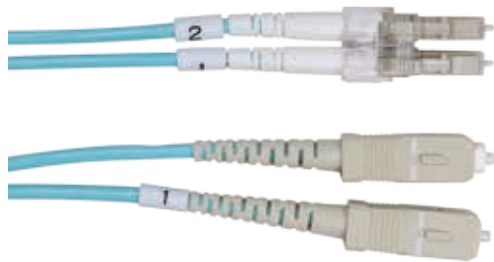
- Super strong long life duplex fiber patch cables
- LAN 10/100/1000/10G ethernet
- Digital multimedia patching & interconnection
- Crestron, AMX & Savant standard fiber specification



TECH SPECS

MODEL	Description
DOM3NLCLC-001M	3.3' Teal
DOM3NLCLC-002M	6.6' Teal
DOM3NLCLC-003M	10' Teal
DOM3NLCLC-005M	16.5' Teal
DOM3NLCLC-010M	33' Teal

DOM3NLCSC | Stronger, Safer, Faster (SSF) Lifetime Fiber Optic Patch cable OM3 Laser Optimized Multimode LC-SC



Features and Benefits

- Duplex LC to Duplex LC FPC/SPC format connectors
- Stronger, Safer, Faster (SSF) fiber bulk cable
- 10,000 times the flex life of standard fiber cables
- Two (2) fiber 50/125 laser optimized multimode OM3 fiber
- Standard lengths 1, 2, 3, 5 & 10m
- NEC OFNR, CEC FT4 & RoHS compliant

Applications

- Super strong long life duplex fiber patch cables
- LAN 10/100/1000/10G ethernet
- Digital multimedia patching & interconnection
- Crestron, AMX & Savant standard fiber specification



TECH SPECS

MODEL	Description
DOM3NLCSC-001M	3.3' Teal
DOM3NLCSC-003M	6.6' Teal
DOM3NLCSC-005M	10' Teal
DOM3NLCSC-010M	16.5' Teal

DOM3NSCSC | Stronger, Safer, Faster (SSF) Lifetime Fiber Optic Patch cable OM3 Laser Optimized Multimode SC-SC



Features and Benefits

- Duplex LC to Duplex LC FPC/SPC format connectors
- Stronger, Safer, Faster (SSF) fiber bulk cable
- 10,000 times the flex life of standard fiber cables
- Two (2) fiber 50/125 laser optimized multimode OM3 fiber
- Standard lengths 1, 2, 3, 5 & 10m
- NEC OFNR, CEC FT4 & RoHS compliant

Applications

- Super strong long life duplex fiber patch cables
- LAN 10/100/1000/10G ethernet
- Digital multimedia patching & interconnection
- Crestron, AMX & Savant standard fiber specification



TECH SPECS

MODEL	Description
DOM3NSCSC-001M	3.3' Teal
DOM3NSCSC-002M	6.6' Teal
DOM3NSCSC-003M	10' Teal
DOM3NSCSC-005M	16.5' Teal
DOM3NSCSC-010M	33' Teal