

# CLEERLINE SSF™ UNIBOOT PATCH CORDS

## For High Density/Data Environments

3.0 mm Diameter, LC, Riser Rated Jacket



Cleerline SSF™ Uniboot Patch Cables provide high bandwidth signal transmission in a design optimized for high density environments. Each uniboot connector has a removable cover, allowing easy polarity adjustment without additional tools. Additionally, connectors feature a removable pull bar ideal for quick connector changes in tight spaces. All cables have robust strain relief to maximize glass protection.

Cleerline SSF™ Uniboot Patch Cables are constructed using SSF™ fiber optic technology for increased flexibility and strength. Each cable contains 2 strands of SSF™ fiber within a 3.0 mm jacket, reducing the required cable space by 50% compared to a duplex patch cable.

Cables have a riser rated outer jacket and are color-coded according to TIA standards. Uniboot patch cables are available in OM3 or OM4 multimode or OS2 single mode, with additional OS2 APC and APC to UPC options.

**Custom lengths and jacket types available on request.**

### APPLICATIONS

- High density environments, data centers, telecommunications network
- High bandwidth networks
- FTTX



### FEATURES AND BENEFITS

- LC Uniboot Connector
- Removable connector cover for easy polarity adjustment
- Removable pull bar
- Increased flexibility ideal for high density environments
- Compatible with standard duplex LC adapter and feedthroughs
- High mechanical strength, superior fatigue
- Integral SSF™ coating provides glass protection
- Conform to IEC, EIA-TIA, and Telecordia requirements
- TIA color-coded
- Riser rated OFNR jacket type
- Custom lengths and jacket types available.

PART NUMBER	OUTER DIAMETER	FIBERS	FIBER TYPE	POLISH	XX = LENGTH (METERS)	JACKET
3UOM3LCLCXXm	3.0 mm	2	OM3 MM	Ultra Physical Contact	01 / 02 / 03 / 04 / 05 / 07 / 10	Riser
3UOM4LCLCXXm	3.0 mm	2	OM4 MM	Ultra Physical Contact	01 / 02 / 03 / 04 / 05 / 07 / 10	Riser
3UOS2LCLCXXm-UPC	3.0 mm	2	OS2 SM	Ultra Physical Contact	01 / 02 / 03 / 04 / 05 / 07 / 10	Riser
3UOS2LCLCXXm-APC	3.0 mm	2	OS2 SM	Angled Physical Contact	01 / 02 / 03 / 04 / 05 / 07 / 10	Riser
3UOS2LCLCXXm-UPC-APC	3.0 mm	2	OS2 SM	UPC to APC	01 / 02 / 03 / 04 / 05 / 07 / 10	Riser

### CLEERLINE TECHNOLOGY GROUP, LLC

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### CABLE CHARACTERISTICS

#### MULTIMODE

Connector Insertion Loss	Max 0.5 dB
Connector Color	Aqua
Outer Diameter	3.0 mm
Minimum Bend Radius	10 x OD

#### SINGLE MODE

Connector Insertion Loss	Max 0.5 dB
Connector Color	Blue
Outer Diameter	3.0 mm
Minimum Bend Radius	10 x OD

### OPTICAL FIBER CHARACTERISTICS

#### PHYSICAL CHARACTERISTICS - MULTIMODE

Core Diameter	50.0 ± 2.5 µm
Core Non-circularity	≤ 5.0 %
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
Fiber Curl	≥ 2 m
Proof Test	100 Kps
Bend Induced Attenuation at 1300 nm	≤ 1.0 dB

#### PHYSICAL CHARACTERISTICS - SINGLE MODE

Mode Field Diameter	1310 nm Wavelength	8.6 ± 0.4 µm
Mode Field Diameter	1550 nm Wavelength	9.7 ± 0.5 µm
Core/Hybrid Cladding Concentricity Error		≤ 0.5 µm
Hybrid Cladding Diameter		125 ± 0.7 µm
Hybrid Cladding Non-Circularity Error		≤ 1.0 %
Fiber Curl		≥ 2 m
Proof Test		100 kpsi
Bend Induced Attenuation, 1550nm	1 turn around 10 mm radius	≤ 0.3 dB
	10 turns around 15mm radius mandrel	≤ 0.03 dB
Bend Induced Attenuation, 1625 nm	1 turn around 10mm radius	≤ 1.0 dB

#### OPTICAL CHARACTERISTICS - OM3

Attenuation Coefficient	850 nm	≤ 3.0 dB/km
	1300 nm	≤ 1.0 dB/km
Numerical Aperture		0.200 ± 0.015
Overfilled Modal Bandwidth	850 nm	≥ 1500 MHz · km
	1300 nm	≥ 500 MHz · km
High Performance EMB	850 nm	≥ 2000 MHz · km

#### OPTICAL CHARACTERISTICS - OM4

Attenuation Coefficient	850 nm	≤ 3.0 dB/km
	1300 nm	≤ 1.0 dB/km
Numerical Aperture		0.200 ± 0.015
Overfilled Modal Bandwidth	850 nm	≥ 3500 MHz · km
	1300 nm	≥ 500 MHz · km
High Performance EMB	850 nm	≥ 4700 MHz · km

#### OPTICAL CHARACTERISTICS - OS2

Attenuation Coefficient	1310 nm	≤ 0.35 dB/km
	1550 nm	≤ 0.21 dB/km
Mode Field Diameter	1310 nm	8.6 ± 0.4 µm
	1550 nm	9.7 ± 0.5 µm
Cable Cut-Off Wavelength		≤ 1260 nm
Zero Dispersion Wavelength		1310 nm - 1324 nm

#### COMPLIANCE

UL Listed Type OFNR, CSA FT4, IECA S-83-596.  
 RoHS Compliant Directive 2011/65/EU  
 SSF™ conforms to the requirement of IEC 60793-2-10 A1a.3, ISO/IEC 11801 & ITU-T G.651.1.850 nm Laser-Optimized 50 µm multimode fiber for 10 Gb/s & above applications  
 SSF™ complies or exceeds the ITU-T recommendations G.657 A2, and G.652 D, the IEC International Standard 60793-2-50 type B.1.3 and B.6.A&B Optical Fiber Specification.

