

CLEERLINE SSF™ UNIBOOT PATCH CORDS

For High Density/Data Environments

3.0 mm Diameter, LC, Riser Rated Jacket



Preliminary Specification - Subject to Change

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 an additional OS2 APC option.

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
3UPOM3LCLCXXm	3.0 mm	2	OM3 MM	Ultra Physical Contact	01 / 02 / 03 / 04 / 05 / 07 / 10	Riser
3UPOM4LCLCXXm	3.0 mm	2	OM4 MM	Ultra Physical Contact	01 / 02 / 03 / 04 / 05 / 07 / 10	Riser
3UPOS2LCLCXXm-UPC	3.0 mm	2	OS2 SM	Ultra Physical Contact	01 / 02 / 03 / 04 / 05 / 07 / 10	Riser
3UPOS2LCLCXXm-APC	3.0 mm	2	OS2 SM	Angled Physical Contact	01 / 02 / 03 / 04 / 05 / 07 / 10	Riser

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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.

