

# CLEERLINE SSF™ XD PATCH CORDS

For Premises / Data Environments

1.6 mm or 3.0 mm Diameter, Riser, LC or SC



Cleerline SSF™ XD fiber optic patch cords deliver extreme performance and reliability for all system connections. XD series patch cords incorporate Cleerline's exclusive SSF™ integral polymer as part of the fiber optic glass technology.

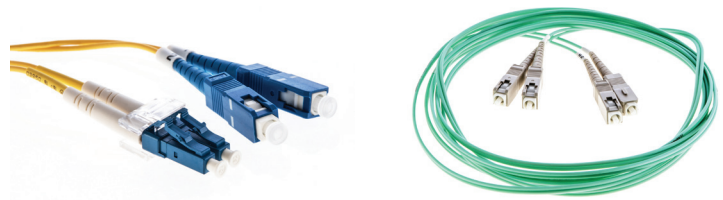
Designed for reliability in all applications, XD series patch cords provide flexible interconnection to active equipment, passive optical devices, and cross-connects. XD series patch cords exhibit lower optical power loss under bend than standard cables and are compatible with all conventional cabling.

Available in duplex configuration OM2, OM3, OM4 (multimode), and OS2 (single mode) type fibers. LC style are clipped.

**Custom lengths and styles also available.**

## FEATURES AND BENEFITS

- High mechanical strength, superior fatigue
- Up to 10,000x the bend of traditional fiber
- Integral SSF™ coating provides glass protection
- Exclusive 250 µm Soft Peel acrylate
- Conform to IEC, EIA-TIA, and Telecordia requirements
- LC and SC connector types, TIA color-coded
- Riser rated OFNR jacket type
- Custom configurations available upon request



## APPLICATIONS

- Data centers, telecommunications network
- High bandwidth networks
- FTTX

## COMPLIANCE

- ROHS Compliant Directive 2011/65/EU
- UL Listed Type OFNR, CSA FT4, IECA S-83-596
- 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, G.657 B2, and G.652 D, the IEC International Standard 60793-2-50 type B.1.3 and B.6.A&B Optical Fiber Specification

EXAMPLE IMAGE	PART NUMBER	OUTER DIAMETER	FIBERS	FIBER TYPE	CONNECTOR	XX = LENGTH (METERS)	JACKET
	DOM2LCLCXXm	1.6 mm	2	OM2 MM	LC - LC	01 / 02 / 03 / 05 / 10 m	Riser
	DOM2SCSCXXm	1.6 mm	2	OM2 MM	SC - SC	01 / 02 / 03 / 05 / 10 m	Riser
	DOM2LCSCXXm	1.6 mm	2	OM2 MM	LC - SC	01 / 02 / 03 / 05 / 10 m	Riser
	DOM3LCLCXXm	1.6 mm	2	OM3 MM	LC - LC	01 / 02 / 03 / 05 / 10 m	Riser
	DOM3SCSCXXm	1.6 mm	2	OM3 MM	SC - SC	01 / 02 / 03 / 05 / 10 m	Riser
	DOM3LCSCXXm	1.6 mm	2	OM3 MM	LC - SC	01 / 02 / 03 / 05 / 10 m	Riser
	3DOM3LCLCXXm	3.0 mm	2	OM3 MM	LC - LC	01 / 02 / 03 m	Riser
	3DOM3SCSCXXm	3.0 mm	2	OM3 MM	SC - SC	01 / 02 / 03 m	Riser
	3DOM3LCSCXXm	3.0 mm	2	OM3 MM	LC - SC	01 / 02 / 03 m	Riser
	DOM4LCLCXXm	1.6 mm	2	OM4 MM	LC - LC	01 / 02 / 03 / 05 / 10 m	Riser
	DOM4SCSCXXm	1.6 mm	2	OM4 MM	SC - SC	01 / 02 / 03 / 05 / 10 m	Riser
	DOM4LCSCXXm	1.6 mm	2	OM4 MM	LC - SC	01 / 02 / 03 / 05 / 10 m	Riser
	DOS2LCLCXXm-UPC	1.6 mm	2	OS2 SM	LC - LC UPC	01 / 02 / 03 / 05 / 10 m	Riser
	DOS2SCSCXXm-UPC	1.6 mm	2	OS2 SM	SC - SC UPC	01 / 02 / 03 / 05 / 10 m	Riser
	DOS2LCSCXXm-UPC	1.6 mm	2	OS2 SM	LC - SC UPC	01 / 02 / 03 / 05 / 10 m	Riser
	DOS2LCLCXXm-APC	1.6 mm	2	OS2 SM	LC - LC APC	01 / 02 / 03 / 05 / 10 m	Riser
	DOS2SCSCXXm-APC	1.6 mm	2	OS2 SM	SC - SC APC	01 / 02 / 03 / 05 / 10 m	Riser
	DOS2LCSCXXm-APC	1.6 mm	2	OS2 SM	LC - SC APC	01 / 02 / 03 / 05 / 10 m	Riser

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## CUSTOM CONFIGURATION MATRIX

Example: P/N 3DOM3LCSC05m = 3.0mm Outer Diameter, Duplex, Multimode OM3, LC to SC, 5 meter patch cord

OUTER DIAMETER	STYLE	FIBER TYPE	CONNECTOR	LENGTH	POLISH (SINGLE MODE ONLY)
<b>X</b>	<b>X</b>	<b>XXX</b>	<b>XXXX</b>	<b>XXX</b>	<b>-XXX</b>
Blank = 1.6 mm	D = Duplex	OM2 = Multimode OM2 (Orange)	LCLC = LC to LC	Meters	-UPC (Ultra)
3 = 3.0 mm		OM3 = Multimode OM3 (Aqua)	LCSC = LC to SC	Ex: 03m	-APC (Angled)
		OM4 = Multimode OM4 (Magenta)	SCSC = SC to SC		
		OS2 = Single Mode OS2 (Yellow)			

## 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
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

### 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 %
Soft Peel Jacket Identifier Diameter		250 ± 0.7 µm
Coating Strip Force		≤ 100 g
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 - OM2

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	≥ 700 MHz · km
	1300 nm	≥ 500 MHz · km
High Performance EMB	850 nm	≥ 950 MHz · km

### 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