OCC®

Connections You Can Count On.™

XPRESS ULTRA™ FIBER CONNECTOR PRODUCT GUIDE

- CLEANING & INSPECTION

- TESTING AND TROUBLE SHOOTING

- XPRESS ULTRA FIBER CONNECTORS

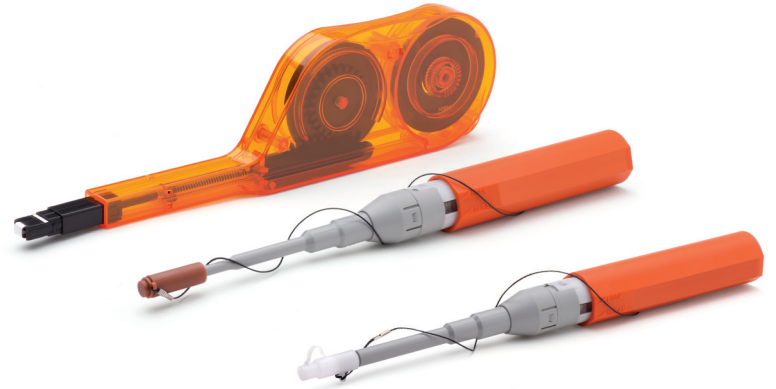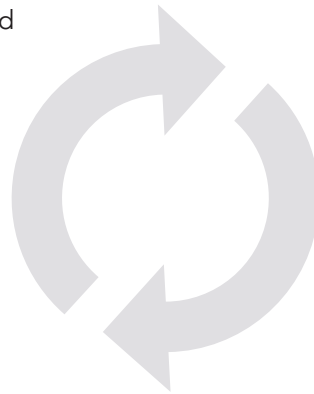- INSTALLATION KITS

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TERMINATE

The Xpress Ultra™ Installation Kit contains everything needed for installation of SC and LC Xpress Ultra™ PLUS connectors. No epoxy, polishing film, or other consumables are required, and there is no need for electrical power, allowing installers to get in and out of installation sites quickly.

CLEAN

Introducing the new cleaners for MPO, SC, and LC optical connectors. Expanding its lineup of optical cleaners, OCC is able to respond to an even wider range of its customers needs.

TEST

Quick and easy solutions to troubleshoot and test your fiber optic network.

CONNECT

The OCC Xpress Ultra™ Field Installable Connector is a pre-polished, pre-assembled connector that uses index matching gel. An internal mechanical grip gently, but effectively, holds the fiber in place and can be installed in under 2 minutes. Without polishing or adhesives, the OCC Xpress Ultra™ Field Installable Connector makes on-site installations quick and easy, diminishing the need for epoxy curing and hand polishing at the worksite.

EASY INSTALLATION
IN UNDER 2 MINUTES

The OCC Xpress Ultra™ Fiber Connector is a pre-polished, preassembled connector compatible with standard SC and LC connectors. No epoxy is required as an internal mechanical grip effectively holds the fiber in place and can be installed in under 2 minutes. Without polishing or adhesives, the Xpress Ultra™ makes on-site installations quick and easy, diminishing the need for epoxy curing and hand polishing at the work site. The Xpress Ultra™ comes with an assembly jig and fiber holder for 250µm and 900µm tight buffered fiber, ensuring accurate alignment and fiber cleave when terminating.
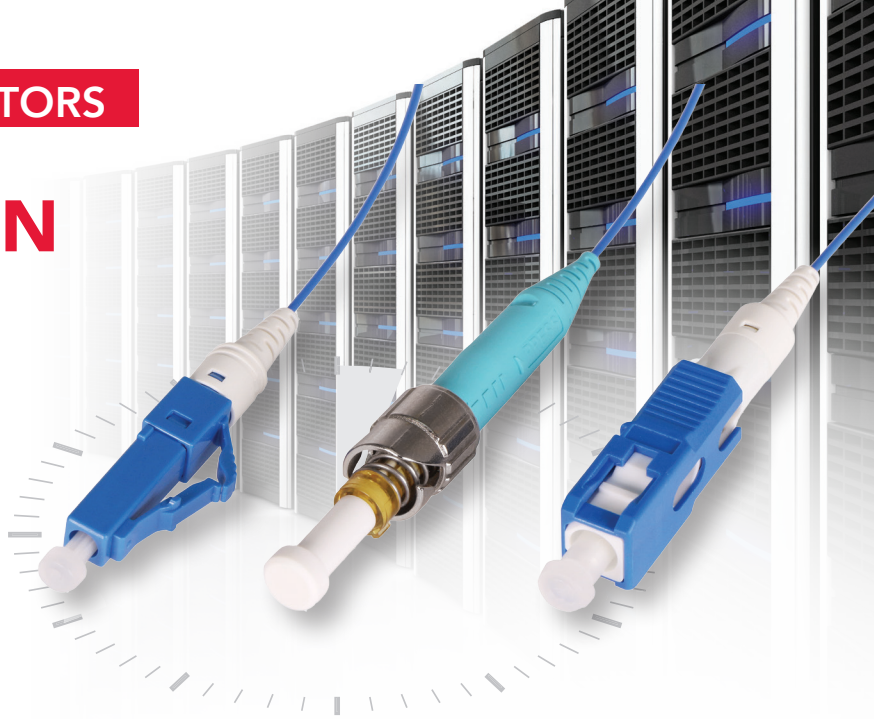
FEATURES

- Mechanical Splice *(index matching gel)*
- Highly Stable & Reliable
- Perfect Performance
- Compact Package
- RoHS Compliant
- Finished Connector meets UL94-V0 Flammability Rated
- TIA/EIA 568-C.3 Compliant

XPRESS ULTRA™ FIBER SC CONNECTOR

SPECIFICATION	SINGLEMODE	MULTIMODE
For Xpress Ultra SC	**TYPICAL**	
Insertion Loss	0.2dB (PC) and 0.3dB (APC)	0.1dB
Return Loss	55dB (PC), 60dB (APC)	35dB
Durability	<0.1dB change, 500 matings	
Operating Temperature	-40°C to +75°C	
Tensile	TIA/EIA 568-B.3	
Intermateability	IEC 61754-4	

Note: Specifications shown above were obtained using OCC recommended products and procedures. Bulk packaging available upon request.

PART NUMBER	DESCRIPTION	HOUSING	BOOT COLOR
RFC-SC6-12	Fiber Conn, Pre-Polished, SC, 62.5, 250/900, 12 Pack with tool	**Beige**	**White**
RFC-SC5-12	Fiber Conn, Pre-Polished, SC, 50um, 250/900, 12 Pack with tool	**Black**	**White**
RFC-SC5G-12	Fiber Conn, Pre-Polished, SC, OM3/OM4, 250/900, 12 Pack with tool	**Aqua**	**White**
RFC-SC8-12	Fiber Conn, Pre-Polished, SC, SM, 250/900, 12 Pack with tool	**Blue**	**White**
RFC-SCAPC-12	Fiber Conn, Pre-Polished, SC, APC, 250/900, 12 Pack with tool	**Green**	**White**
RFC-SC6-2MM-12	*Fiber Conn, Pre-Polished, SC, 62.5, 2mm, 12 Pack with tool	**Beige**	**White**
RFC-SC5-2MM-12	*Fiber Conn, Pre-Polished, SC, 50um, 2mm, 12 Pack with tool	**Black**	**White**
RFC-SC5G-2MM-12	*Fiber Conn, Pre-Polished, SC, OM3/OM4, 2mm, 12 Pack with tool	**Aqua**	**White**
RFC-SC8-2MM-12	*Fiber Conn, Pre-Polished, SC, SM, 2mm, 12 Pack with tool	**Blue**	**White**
RFC-SCAPC-2MM-12	*Fiber Conn, Pre-Polished, SC, APC, 2mm, 12 Pack with tool	**Green**	**White**
RFC-SC6-3MM-12	*Fiber Conn, Pre-Polished, SC, 62.5, 3mm, 12 Pack with tool	**Beige**	**White**
RFC-SC5-3MM-12	*Fiber Conn, Pre-Polished, SC, 50um, 3mm, 12 Pack with tool	**Black**	**White**
RFC-SC5G-3MM-12	*Fiber Conn, Pre-Polished, SC, OM3/OM4, 3mm, 12 Pack with tool	**Aqua**	**White**
RFC-SC8-3MM-12	*Fiber Conn, Pre-Polished, SC, SM, 3mm, 12 Pack with tool	**Blue**	**White**
RFC-SCAPC-3MM-12	*Fiber Conn, Pre-Polished, SC, APC, 3mm, 12 Pack with tool	**Green**	**White**

* 2mm and 3mm options coming soon. Contact your OCC Sales Representative at 1-800-622-7711 for ordering information.

XPRESS ULTRA™ FIBER LC CONNECTOR

FEATURES

- Mechanical Splice
  (index matching gel)
- Highly Stable & Reliable
- Perfect Performance
- Compact Package
- RoHS Compliant
- Finished Connector meets UL94-V0 Flammability Rated

SPECIFICATION	SINGLEMODE	MULTIMODE
For Xpress Ultra LC	**TYPICAL**	
Insertion Loss	0.2dB (PC) and 0.3dB (APC)	0.1dB
Return Loss	55dB (PC), 60dB (APC)	35dB
Durability	<0.1dB change, 500 matings	
Operating Temperature	-40°C to +75°C	
Tensile	TIA/EIA 568-B.3	
Intermateability	IEC 61754-4	

Note: Specifications shown above were obtained using OCC recommended products and procedures. Bulk packaging available upon request.

PART NUMBER	DESCRIPTION	HOUSING	BOOT COLOR
RFC-LC6-12	Fiber Conn, Pre-Polished, LC, 62.5, 250/900, 12 Pack with tool	**Beige**	**White**
RFC-LC5-12	Fiber Conn, Pre-Polished, LC, 50um, 250/900, 12 Pack with tool	**Black**	**White**
RFC-LC5G-12	Fiber Conn, Pre-Polished, LC, OM3/OM4, 250/900, 12 Pack with tool	**Aqua**	**White**
RFC-LC8-12	Fiber Conn, Pre-Polished, LC, SM, 250/900, 12 Pack with tool	**Blue**	**White**
RFC-LCAPC-12	Fiber Conn, Pre-Polished, LC, APC, 250/900, 12 Pack with tool	**Green**	**White**
RFC-LC6-2MM-12	*Fiber Conn, Pre-Polished, LC, 62.5, 2mm, 12 Pack with tool	**Beige**	**White**
RFC-LC5-2MM-12	*Fiber Conn, Pre-Polished, LC, 50um, 2mm, 12 Pack with tool	**Black**	**White**
RFC-LC5G-2MM-12	*Fiber Conn, Pre-Polished, LC, OM3/OM4, 2mm, 12 Pack with tool	**Aqua**	**White**
RFC-LC8-2MM-12	*Fiber Conn, Pre-Polished, LC, SM, 2mm, 12 Pack with tool	**Blue**	**White**
RFC-LCAPC-2MM-12	*Fiber Conn, Pre-Polished, LC, APC, 2mm, 12 Pack with tool	**Green**	**White**
RFC-LC6-3MM-12	*Fiber Conn, Pre-Polished, LC, 62.5, 3mm, 12 Pack with tool	**Beige**	**White**
RFC-LC5-3MM-12	*Fiber Conn, Pre-Polished, LC, 50um, 3mm, 12 Pack with tool	**Black**	**White**
RFC-LC5G-3MM-12	*Fiber Conn, Pre-Polished, LC, OM3/OM4, 3mm, 12 Pack with tool	**Aqua**	**White**
RFC-LC8-3MM-12	*Fiber Conn, Pre-Polished, LC, SM, 3mm, 12 Pack with tool	**Blue**	**White**
RFC-LCAPC-3MM-12	*Fiber Conn, Pre-Polished, LC, APC, 3mm, 12 Pack with tool	**Green**	**White**

* 2mm and 3mm options coming soon. Contact your OCC Sales Representative at 1-800-622-7711 for ordering information.

XPRESS ULTRA™ FIBER ST CONNECTOR

FEATURES

- Mechanical Splice
  (index matching gel)
- Highly Stable & Reliable
- Perfect Performance
- Compact Package
- RoHS Compliant
- Finished Connector meets UL94-V0 Flammability Rated

SPECIFICATION	SINGLEMODE	MULTIMODE
For Xpress Ultra ST	**TYPICAL**	
Insertion Loss	0.2dB (PC)	0.1dB
Return Loss	55dB (PC)	35dB
Durability	<0.1dB change, 500 matings	
Operating Temperature	-40 °C to 75 °C	
Tensile	TIA/EIA 568-B.3	
Intermateability	TIA/EIA 568-B.3	

Note: Specifications shown above were obtained using OCC recommended products and procedures. Bulk packaging available upon request.

PART NUMBER	DESCRIPTION	HOUSING	BOOT COLOR
RFC-ST6-12	Fiber Conn, Pre-Polished, ST, 62.5, 250/900, 12 Pk with tool	**Beige**	**Beige**
RFC-ST5G-12	Fiber Conn, Pre-Polished, ST, OM3/OM4, 250/900, 12 Pack with tool	**Natural**	**Aqua**
RFC-ST8-12	Fiber Conn, Pre-Polished, ST, SM, 250/900, 12 Pack with tool	**Blue**	**Blue**

XPRESS ULTRA™ INSTALLATION KIT

1. OCC Soft Case & Termination Pad
2. Fiber Disposal Unit
3. Standard Cleaver
4. Launch Cables
5. Fiber Checker
6. Buffer Remover
7. Fiber Stripper
8. Kevlar Scissors
9. Lint Free Wipes

EASY INSTALLATION IN UNDER 2 MINUTES

The Xpress Ultra™ Installation Kit contains everything needed for installation of SC and LC Xpress Ultra™ PLUS connectors. No epoxy, polishing film, or other consumables are required, and there is no need for electrical power, allowing installers to get in and out of installation sites quickly.

FEATURES

- Fast installation to minimize on-site labor costs
- Compatible with conventional LC & SC connectors and adaptors
- Easy operation
- Quick assembly in under 2 minutes
- No adhesive or polishing required
- Compact tool without electric power

ORDER CODE	DESCRIPTION
RFCTK	Xpress Ultra™ Field Installation Kit with Flat Cleaver - Standard

DESCRIPTION	OCC PN
Xpress Ultra™ Field Installation Kit with Flat Cleaver - PREMIUM	RFCTK
Jacket and 250µm Fiber Stripper + 125µm Buffer Remover	RFCFS
Thermal Buffer Removal Tool	RFCTBRT
Replacement Blade Set	RFCTBRB
Lint Free Dry Wipes	RFCLFDW
Fiber Optic Cleaning Pen	RFCCP
Kevlar Scissors	RFCKS
Fiber Disposal Unit	RFCFD
Fine Permanent Marker Pen	RFCPMP
Fiber Checker	RFCSCSM
2.5mm to 1.25mm Adapter	RFCSCADAPT
Launch Cables	RFCLCB
OCC Soft Case & Termination Pad	RFCCASE
Precision Cleave Tool (Flat) - Standard	FOCT

WHAT DO THE STANDARDS SAY?

The test procedures specified by 568-C require tools and procedures for **ensuring connector quality**.

- End faces on cords and trunks shall be in accordance to IEC 6100-3-35.

- Use a microscope that is compatible with IEC 61300-3-35.

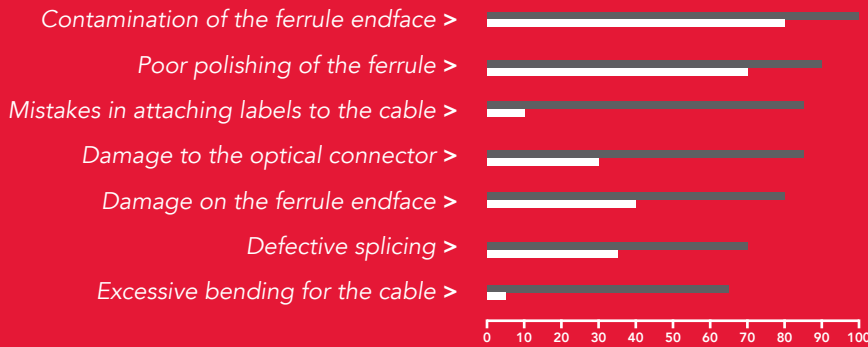- The microscope must use adapters that are compatible with connectors.

WHAT IS IEC 61300-3-35?

- A set of requirements for Fiber Optic connector quality.

- Designed to guarantee insertion loss and return loss performance

- Used as reference between supplier and customer

- Used as condition for accurate testing of components and links.

GENERAL ACCEPTANCE CRITERIA

Separate criteria for different connector types and performance.

- SM-UPC IL <= 0.30dB/RL>55dB

- SM-APC IL <=0.35dB/RL>65dB

- MM-PC IL <0.35dB

- Multi Fiber SM IL <0.50dB/RL> 60dB

- Multi Fiber MM IL <0.50dB

Contamination of the ferrule endface >
Poor polishing of the ferrule >
Mistakes in attaching labels to the cable >
Damage to the optical connector >
Damage on the ferrule endface >
Defective splicing >
Excessive bending for the cable >
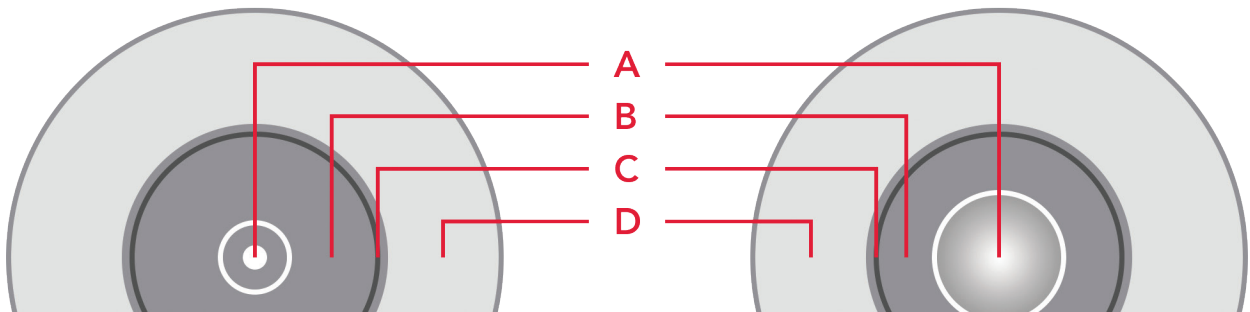
0 10 20 30 40 50 60 70 80 90 100

■ Cable Installers   □ Network Installers

In a recent study, 98% of installers and 80% of network owners reported that issues with connector contamination was the greatest cause of network failure.

Source of data NTT

EXAMPLE OF FIBER ENDFACES AND RESPECTIVE ZONES

A
B
C
D

SINGLE MODE UPC

ZONE NAME		SCRATCHES	DEFECTS
A	CORE (0-25μm)	None	None
B	CLADDING (25-120μm)	No Limit <= 3μm None > 3μm	No Limit < 2μm 5 from 2-5μm None > 5μm
C	ADHESIVE (120-130μm)	No Limit	No Limit
D	CONTACT (130-250μm)	No Limit	None => 10μm

MM CONNECTOR

| ZONE NAME		SCRATCHES	DEFECTS
A	CORE (0-65μm)	None	4 <= 5μm None > 5μm
B	CLADDING (65-120μm)	No Limit <= 3μm None > 3μm	No Limit < 2μm 5 from 2-5μm None > 5μm
C	ADHESIVE (120-130μm)	No Limit	No Limit
D	CONTACT (130-250μm)	No Limit	None => 10μm

OPTICAL CONNECTOR CONTAMINATION

WHAT HAPPENS IF THE OPTICAL CONNECTOR ENDFACE BECOMES CONTAMINATED?

Examples of common contaminants adhering to end face:

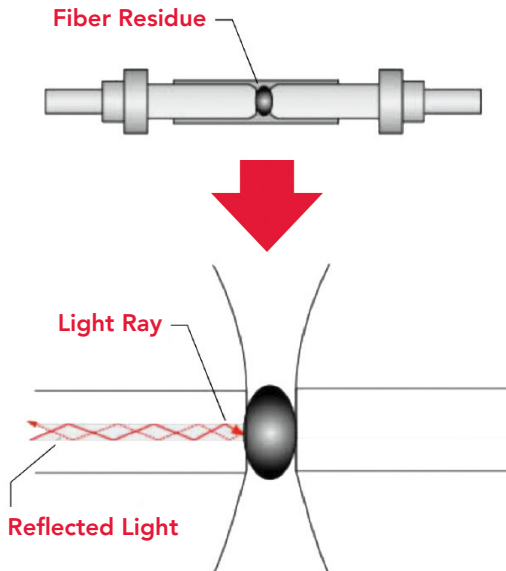**Hand Lotion**   **Fiber Residue**   **Dirt and Dust**
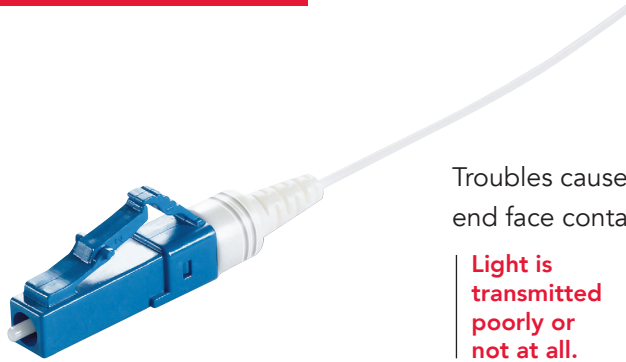
Troubles caused by connector end face contamination:

| Light is transmitted poorly or not at all. | Light is reflected back to connection point* |

*returning to the transmission point, causing equipment breakdown or bit errors.

Fiber Residue

Light Ray

Reflected Light

**Optical connector must have no contamination prior to mating**

What can happen when the optical end face is dirty? The beam of light may not be able to travel through the core. Optical connectors become contaminated from a variety of reasons. Usually 2 - 15 micron sized contaminants will have an impact on the signal transmission and could cause damage to the optical end face. The majority of network down time is caused by optical connector contamination.

Light beam is prevented from passing through due to contaminants on the end face, resulting in light reflection.

WHAT CAN HAPPEN WHEN CONTAMINANTS ADHERE TO THE CORE?
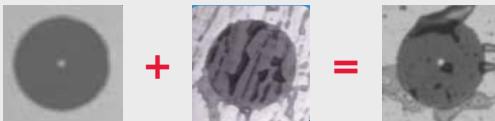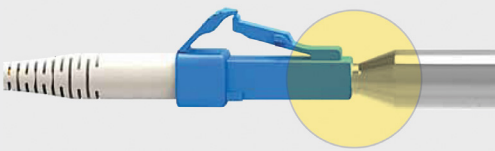
Contaminants at the side of the ferrule prevent light from properly passing through due to poor alignment.

Mating a clean connector to a dirty connector

When the unclean optical connector is mated, the contaminant is forced into the ferrule and may become permanently damaged. In this situation, the damage cannot be removed with an optical cleaner.

When contaminants adhere to the core, they will cause increase in signal interruption and increase amount of insertion loss and degradation of return loss. Also, these kinds of contaminants can cause chips, pits, and scratches in the connector end face under the pressure of the physical connection. Large contaminants can result in gaps in the physical connection, resulting in increased loss. These kinds of contaminants can actually spread and migrate by the physical connection.

XPRESS ULTRA™ CLEANER

FOR FIBER CLEANING

Xpress Ultra™ **Mini**

for **SC, FC, ST, E-2000**

for **MPO**
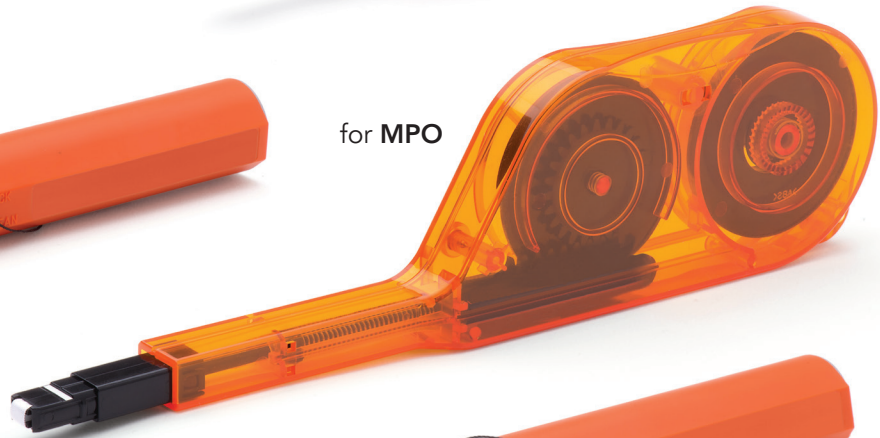
for **LC, MU**

FEATURES

- Designed for all types of connectors
- Compact size for easy hand held operations
- Dry clean without the use of harmful substances
- Cleaning micro fibers are densely stranded and debris free
- Replaceable cartridge
- Constructed with anti-static material
- 750+ cleanings per unit
- Easy pushing motion engages connector and initiates cleaner
- Extendable tip reaches recessed connectors
- Cleaning system rotates 180 for a full sweep

The Xpress Ultra™ Cleaner is a dry cloth cleaner specifically designed to clean connections of patch cords in adapter, faceplates, and bulkheads.
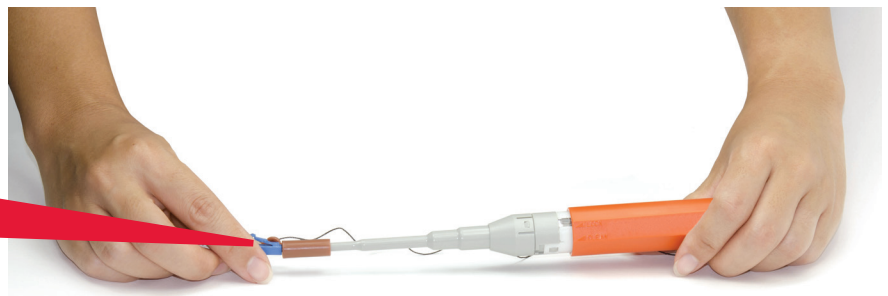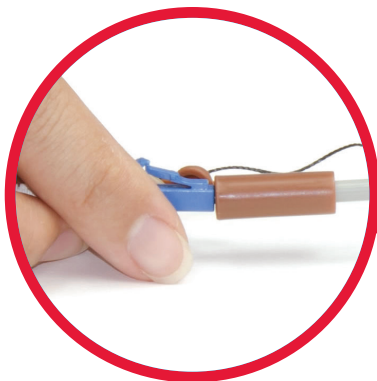
XPRESS ULTRA™ CLEANER
REPLACEMENT CARTRIDGE TYPE

750+

CLEANINGS
FOR EACH
CLEANER

for **LC, MU**

for **SC, FC, ST, E-2000**

ORDER CODE	DESCRIPTION
RFCSC1	Xpress Ultra™ Cleaner 1.25 for LC, MU
RFCSC2	Xpress Ultra™ Cleaner 2.50 for SC, FC, ST, E-2000

SPECIFICATIONS		
Product Name	Xpress Ultra™ Cleaner 1.25	Xpress Ultra™ Cleaner 2.50
Compatible Connectors	MU, LC, PC and APC	SC, FC, ST, E-2000 PC and APC
Attachment Color	Brown	White

Designed to especially work well with the LC/MU and SC/FC/ST/E-2000 connectors, this instrument cleans the ferrule end faces to remove dust, oil, and other debris without nicking or scratching the end face. The Xpress Ultra™ Fiber Optic Cleaner for simplex connections is a dry cloth cleaner specially designed to clean single fiber connectors. Designed as an adapter, the dust cap of the cleaner acts as an adapter for cleaning unmated connectors.

- Designed for all types of connectors
- Compact size for easy hand held operations
- Dry clean without the use of harmful substances
- Cleaning micro fibers are densely stranded and debris free
- Constructed with anti-static material
- 400+ cleanings per unit

XPRESS ULTRA™ REPLACEMENT CARTRIDGES
XPRESS ULTRA™ CLEANER 1.25 AND 2.50

750+

CLEANINGS
FOR EACH
CLEANER

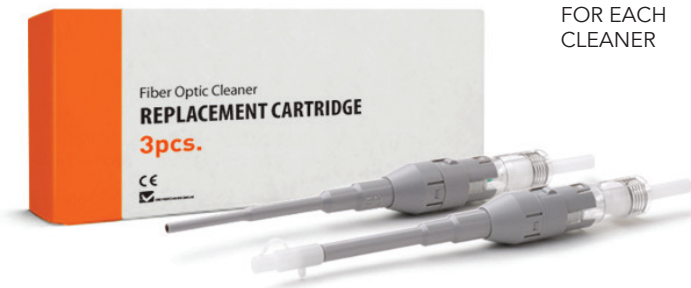| ORDER CODE	DESCRIPTION
RFCRC1	Xpress Ultra™ Replacement Cartridge for 1.25 (LC, MU)
RFCRC2	Xpress Ultra™ Replacement Cartridge for 2.50 (SC, FC, ST, E-2000)

SPECIFICATIONS		
Product Name	Xpress Ultra™ Cleaner 1.25	Xpress Ultra™ Cleaner 2.50
Compatible Connectors	MU, LC, PC and APC	SC, FC, ST, E-2000 PC and APC
Attachment Color	Brown	White

OCC's Xpress Ultra™ Cleaner is composed of a replaceable cartridge containing the cleaning string and the retaining handle that holds it. The handle unit and the cartridge are sold as one unit, while replacement cartridges may also be purchased separately. Each pack contains three replacement cartridges (750+ cleanings for each cartridge).

XPRESS ULTRA™ CLEANER MINI

400+

CLEANINGS
FOR EACH
CLEANER

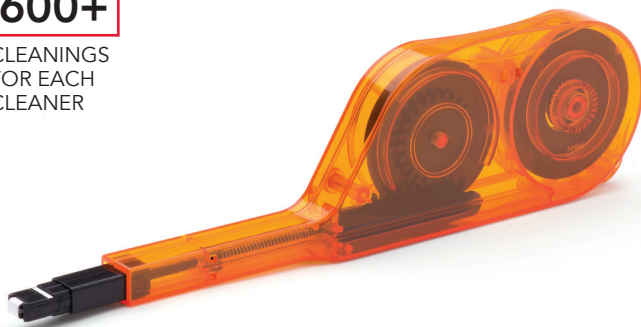| ORDER CODE	DESCRIPTION
RFCSCM1	Xpress Ultra™ Cleaner Mini 1.25 for LC, MU
RFCSCM2	Xpress Ultra™ Cleaner Mini 2.50 for SC, FC, ST

SPECIFICATIONS		
Product Name	Xpress Ultra™ Cleaner Mini 1.25	Xpress Ultra™ Cleaner MIni 2.50
Compatible Connectors	MU, LC, PC and APC	SC, FC, ST, E-2000 PC and APC
Attachment Color	Brown	White

Designed to work well with the LC/MU and SC/FC/ST/E-2000 connectors, this instrument cleans the ferrule end faces to remove dust, oil, and other debris without nicking or scratching the end face. The Xpress Ultra™ Fiber Optic Cleaner for simplex connections is a dry cloth cleaner specially designed to clean single fiber connectors. Designed as an adapter, the dust cap of the cleaner acts as an adapter for cleaning unmated connectors.

- Designed for all types of simplex connectors
- Compact size for easy hand held operations
- Dry clean without the use of harmful substances
- Cleaning micro fibers are densely stranded and debris free
- Constructed with anti-static material
- 400+ cleanings per unit
- Easy pushing motion engages connector and initiates cleaner
- Extendable tip reaches recessed connectors
- Cleaning system rotates 180 for a full sweep

XPRESS ULTRA™ CLEANER FOR MPO

600+

CLEANINGS
FOR EACH
CLEANER

ORDER CODE	DESCRIPTION
RFCSCMPO	Xpress Ultra™ Cleaner MPO

SPECIFICATIONS	
Product Name	Xpress Ultra™ Cleaner MPO
Compatible Connectors	MPO, MTP
Compatible End Face	Compatible with flat and 8 degree angled endface with or without guide pins

Designed to work with MPO connectors, this instrument cleans the ferrule end faces to remove dust, oil, and other debris without nicking or scratching the end face. The Xpress Ultra™ Cleaner for MPO is a dry cloth cleaner to clean MPO connector with "push and click" mechanism. Like the other Xpress Ultra™ Cleaner series, the cleaner the dust cap of the cleaner acts as an adapter for cleaning unmated connectors.

- Designed for all types of multifiber connectors
- Cleans jumper end face both male and female
- Compact size for easy hand held operations
- Dry clean without the use of harmful substances
- Cleaning micro fibers are densely stranded and debris free
- Constructed with anti-static material
- 600+ cleanings per unit
- Easy pushing motion engages connector and initiates cleaner

XPRESS ULTRA™ CASSETTE CLEANER

400+
CLEANINGS FOR EACH CLEANER

ORDER CODE	DESCRIPTION
RFCCC	Xpress Ultra™ Cassette Cleaner

SPECIFICATIONS	
Product Name	Xpress Ultra™ Cassette Cleaner
Compatible Connectors	SC, MU, ST, E-2000, LC, MU, PC and APC
Cleanings	400+ (tape cannot be replaced)
Dimensions	W 115mm x H 55mm x D 25mm

The Xpress Ultra™ Cassette Cleaner wipes away contaminants from optical connector end face with ease. Just as with our previous products, the cleaning tape does not produce dust, and provides special cleaning strength while resisting foreign particles to mix into the tape. The main body also is made from anti-static material. The tape advance mechanism has been simplified, reducing the number of assembly parts to a minimum and resulting in cost reductions for both manufacturing and assembly.

- Designed for all types of connectors
- Compact size for easy hand held operations
- Dry clean without the use of harmful substances
- Cleaning micro fibers are densely stranded and debris free
- Constructed with anti-static material
- 400+ cleanings per unit

CLEANING ACCESSORIES

4x4 NON-WOVEN WIPES

Non-Woven cloth wipes can be used alone or with alcohol or solvents. Provides superior cleaning of fiber optic connector ferrules without risk of scratching or lint residue.

FIBER OPTIC CLEANING PEN

This precision cleaner quickly cleans the end faces of fiber optic connectors, while eliminating electrostatic charge, which can attract airborne contaminants to the end face.

LINT FREE WIPES

These inexpensive tissues can be used dry or with several cleaning solvents to clean off ferrule end faces or prepare fibers for termination and/or splicing.

CLEANING SOLVENT

This fast-acting cleaner can be used with dry fiber wipes or tissues to remove dirt and soil from optical fibers prior to termination and fiber optic splicing or to clean the end of connector ferrules.

CLEANING STICK 1.25 OR 2.50

1 OCC Soft Case

2 4x4 Non-Woven Wipes

3 Xpress Ultra™ Cassette Cleaner

4 Xpress Ultra™ Cleaner

5 Cleaning Solvent

6 Lint Free Wipes

7 Fiber Optic Cleaning Pen

XPRESS ULTRA™ FIBER CLEANING KIT

Ensure clean connectors every time. Most common problems when installing fiber occur at the connection point. OCC's Xpress Ultra™ Fiber Cleaning Kit contains everything you need for cleaning bare fiber, connector end faces, and adapters prior to field termination.

FEATURES

- Simple to use
- Dry cloth cleaners specifically designed to clean loose connectors as well as connectors already located in a faceplate
- Effective at removing contaminates that negatively impact your fiber optic network
- Removes dust, lint, skin oil, water residue, 70% IPA residue, vegetable oil, and much more!

DESCRIPTION	OCC PN
Xpress Ultra Fiber Cleaning Kit	RFCCK
Cassette Cleaner Disposable	RFCCC
Xpress Ultra™ Cleaner 1.25	RFCSC1
Xpress Ultra™ Cleaner 2.50	RFCSC2
1 4x4 Non-Woven Wipes	RFCNWW
1 Solvent	RFCSOL
Fiber Optic Cleaning Pen	RFCCP
OCC Soft Case	RFCCASE

XPRESS ULTRA™ SOURCE

FEATURES

- No pre-warmup time
- Interchangeable SFP module design for wavelength flexibility
- Excellent output wavelength stability
- Excellent re-connection repeatability
- Low Voltage Battery warning
- Compatible to LC Connectors

Xpress Ultra™ Source is ideal for field or laboratory testing of optical communication systems at 850 nm / 1300 nm for datacom testing, 1310 nm / 1550 nm / CWDM 1270 nm ~ 1625 nm (20 nm spans) for all WDM testing, as well as 1490 nm for FTTX testing by using interchangeable SFP transceiver modules. Xpress Ultra™ Source features zero warmup time, superb productivity and has an easy-to-use, pocket-sized, rugged design. The Xpress Ultra™ Source can be changed to accommodate either SM or MM by simply switching out the SFPs. The lightweight hand held design eliminates the need to carry big and bulky test equipment.

ORDER CODE	DESCRIPTION
RFCSSMF	Xpress Ultra™ Source Mainframe

SPECIFICATIONS	
Laser Class	Class 1
Wavelength (nm)	Select required wavelength Xpress Ultra™ Source SFP Plug-In module and order separately
Output Power	1mW @ 25°C into singlemode fiber
Mode	CW/2 kHz Pulse
Battery Type	AAA 1.5Vx2
Output Power Accuracy	+/-0.2 dB
Stability (8 Hours)	+/-0.05 dB
Operating Temperature	0~ 50°C
Storage Temperature	0~ 70°C

INTERCHANGEABLE MODULES
FOR XPRESS ULTRA™ SOURCE

FEATURES

- Lightweight and portable
- Excellent wavelength stability
- Excellent output power stability
- Also available in other wavelengths*

Note:* Other Wavelength options such as 850, 1300, 1310, 1550, 1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1625 available upon request.

ORDER CODE	DESCRIPTION
RFCSSSFP1550SM	SM Xpress Ultra™ SOURCE SFP Module 1550
RFCSSSFP1310SM	SM Xpress Ultra™ SOURCE FP SFP Module 1310
RFCSSSFP1300MM	MM Xpress Ultra™ SOURCE SFP Module 1300
RFCSSSFP850MM	MM Xpress Ultra™ SOURCE SFP Module 850 VCSEL

SPECIFICATIONS	
Laser Class	Class 1
Wavelength (nm)	Select the required wavelength Xpress Ultra™ Source SFP Plug-In module and order separately
Output Power	1mW @ 25°C into singlemode fiber
Mode	CW/2 kHz Pulse
Battery Type	AAA 1.5Vx2
Output Power Accuracy	+/-0.2 dB
Stability (8 Hours)	+/-0.05 dB
Operating Temperature	0~ 50°C
Storage Temperature	0~ 70°C

XPRESS ULTRA™ METER

Xpress Ultra™ Meter
2.5 (SC, FC, ST) to LC (1.25)
Conversion Adapter

FEATURES

The Xpress Ultra™ Meter measures power in both 850 nm/1300 nm (Multimode) and 1310nm ~ 1625nm (Singlemode) respectively. The Xpress Ultra™ meter, in conjunction with the Xpress Ultra™ source is an effective, quick way to test and certify a fiber optic link. The meter comes in multimode and single mode with respective wavelengths at 850/1300 MM and 1310/1550 SM.

ORDER CODE	DESCRIPTION
RFCSMSM	SM Xpress Ultra™ Meter 1310/1550nm 3 digits
RFCSMMM	MM Xpress Ultra™ Meter 850/1300nm 2 digits
RFCSMADAPT	2.5mm to 1.25mm Adapter

SPECIFICATIONS	
Product Name	850 nm/1300 nm
Optical Power Range (Multimode)	-30 dBm ~ -15 dBm
Wavelenth (Singlemode)	1310 nm ~ 1625 nm
Optical Power Range (Singlemode)	-40 dBm ~ +5 dBm
Battery	AAA 1.5VX2
Resolution	1 dBm/ 0.1 dBm
Fiber Connector	Universal Type
Display	2 Digit (MM) / 3 Digit (SM)
Operating Temperature	0~ 50°C
Storage Temperature	0~70°C

XPRESS ULTRA™ CHECKER
VISIBLE FAULT LOCATOR

Xpress Ultra™ Checker
2.5 (SC, FC, ST) to LC (1.25)
Conversion Adapter

Refraction of the 650 nm red light caused by any breaks and or cracks in the fiber will glow red, thus giving an exact visual location of the fault in the fiber.

FEATURES

- Continuous / Pulse Mode options
- Auto Power Control circuit design to provide a stable LD output power
- Low Voltage Battery warning signal in LED
- Compatible to SC / ST / FC / LC Connectors
- Visibility to 3 Km

ORDER CODE	DESCRIPTION
RFCSCSM	SM Xpress Ultra™ Checker 1310/1550nm 2 digits
RFCSCADAPT	2.5mm to 1.25mm Adapter

SPECIFICATIONS	
Laser Class	Class 2M
Wavelength	650 nm +/-10 nm@ 25
Spectral Width	< 10 7nm
Output Power	>0.5 mW@ 25 into singlemode fiber
Mode	CW/ Pulse
Battery Type	AAA 1.5Vx2
Output Power Reliable	+/-0.2 mW
Transmitting Range	Visibility to 3 Km
Operating Temperature	0~ 50°C
Storage Temperature	0~ 70°C

OCC

Connections You Can Count On.™

GLOBAL PARTNERS & LOCATIONS

VISIT OCCFIBER.COM

OCC ROANOKE, VA

Corporate Headquarters and Fiber Optic Cable Manufacturing Facility

5290 Concourse Drive
Roanoke, VA 24019 USA
540.265.0690 or 800.622.7711

OCC DALLAS, TX

Harsh Environment and Specialty Connectivity Manufacturing Facility

1700 Capital Avenue, Suite 150
Plano, TX 75074 USA
972.509.1500 or 877.509.1500

OCC ASHEVILLE, NC

Enterprise Connectivity Manufacturing Facility

33 Superior Way
Swannanoa, NC 28778 USA
828.298.2260 or 800.880.7674

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