- CLEANING & INSPECTION
- TESTING AND TROUBLE SHOOTING
- XPRESS ULTRA FIBER CONNECTORS
- INSTALLATION KITS
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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.

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.

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

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.
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**

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>SINGLEMODE</th>
<th>MULTIMODE</th>
</tr>
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<tbody>
<tr>
<td>For Xpress Ultra SC</td>
<td>TYPICAL</td>
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<tr>
<td>Insertion Loss</td>
<td>0.2dB (PC) and 0.3dB (APC)</td>
<td>0.1dB</td>
</tr>
<tr>
<td>Return Loss</td>
<td>55dB (PC), 60dB (APC)</td>
<td>35dB</td>
</tr>
<tr>
<td>Durability</td>
<td>&lt;0.1dB change, 500 matings</td>
<td></td>
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<tr>
<td>Operating Temperature</td>
<td>-40°C to +75°C</td>
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<tr>
<td>Tensile</td>
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<tr>
<td>RFC-SC5G-3MM-12</td>
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<tr>
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<td>Fiber Conn, Pre-Polished, SC, APC, 3mm, 12 Pack with tool</td>
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<td>White</td>
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* 2mm and 3mm options coming soon. Contact your OCC Sales Representative at 1-800-622-7711 for ordering information.
XPRESS ULTRA™ FIBER CONNECTORS

**FEATURES**

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

**XPRESS ULTRA™ FIBER LC CONNECTOR**

<table>
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<th>SPECIFICATION</th>
<th>SINGLEMODE</th>
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<tr>
<td>For Xpress Ultra LC</td>
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<td>Insertion Loss</td>
<td>0.2dB (PC) and 0.3dB (APC)</td>
<td>0.1dB</td>
</tr>
<tr>
<td>Return Loss</td>
<td>55dB (PC), 60dB (APC)</td>
<td>35dB</td>
</tr>
<tr>
<td>Durability</td>
<td>&lt;0.1dB change, 500 matings</td>
<td>&lt;0.1dB change, 500 matings</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to +75°C</td>
<td>-40°C to +75°C</td>
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<tr>
<td>Tensile</td>
<td>TIA/EIA 568-B.3</td>
<td>TIA/EIA 568-B.3</td>
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<td>Intermateability</td>
<td>TIA/EIA 568-B.3</td>
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<td>Fiber Conn, Pre-Polished, LC, 62.5, 250/900, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, 50um, 250/900, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, OM3/OM4, 250/900, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, SM, 250/900, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, APC, 250/900, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, 62.5, 2mm, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, 50um, 2mm, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, OM3/OM4, 2mm, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, APC, 250/900, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, APC, 250/900, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, 62.5, 3mm, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, 50um, 3mm, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, OM3/OM4, 3mm, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, SM, 2mm, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, LC, APC, 3mm, 12 Pack with tool</td>
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**XPRESS ULTRA™ FIBER ST CONNECTOR**

<table>
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<tr>
<th>SPECIFICATION</th>
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<th>MULTIMODE</th>
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<tr>
<td>For Xpress Ultra ST</td>
<td>TYPICAL</td>
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<td>Insertion Loss</td>
<td>0.2dB (PC)</td>
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<tr>
<td>Return Loss</td>
<td>55dB (PC)</td>
<td>35dB</td>
</tr>
<tr>
<td>Durability</td>
<td>&lt;0.1dB change, 500 matings</td>
<td>&lt;0.1dB change, 500 matings</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C to +75°C</td>
<td>-40°C to +75°C</td>
</tr>
<tr>
<td>Tensile</td>
<td>TIA/EIA 568-B.3</td>
<td>TIA/EIA 568-B.3</td>
</tr>
<tr>
<td>Intermateability</td>
<td>TIA/EIA 568-B.3</td>
<td>TIA/EIA 568-B.3</td>
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**PART NUMBER**

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<th>RFC-ST5G-12</th>
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<td>Fiber Conn, Pre-Polished, ST, OM3/OM4, 250/900, 12 Pack with tool</td>
<td>Fiber Conn, Pre-Polished, ST, SM, 250/900, 12 Pack with tool</td>
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<td>Blue</td>
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<tr>
<td>Beige</td>
<td>Aqua</td>
<td>Blue</td>
</tr>
</tbody>
</table>

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

Note: Specifications shown above were obtained using OCC recommended products and procedures. Bulk packaging available upon request.
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
RFCFS | Jacket and 250μm Fiber Stripper + 125μm Buffer Remover
RFCTBRT | Thermal Buffer Removal Tool
RFCTBRB | Replacement Blade Set
RFCLFDW | Lint Free Dry Wipes
RFCCP | Fiber Optic Cleaning Pen
RFCKS | Kevlar Scissors
RFCFD | Fiber Disposal Unit
RFCPMP | Fine Permanent Marker Pen
RFCSCSM | Fiber Checker
RFCSCADAPT | 2.5mm to 1.25mm Adapter
RFCLCB | Launch Cables
RFCCASE | OCC Soft Case & Termination Pad
FOCT | Precision Cleave Tool (Flat) - Standard
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 61000-3-35.
- 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

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

**SM CONNECTOR**

<table>
<thead>
<tr>
<th>ZONE NAME</th>
<th>SCRATCHES</th>
<th>DEFECTS</th>
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<tbody>
<tr>
<td>A CORE (0-25µm)</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>B CLADDING (25-120µm)</td>
<td>No Limit &lt;= 3µm None &gt; 3µm No Limit &lt; 2µm 5 from 2-5µm None &gt; 5µm</td>
<td></td>
</tr>
<tr>
<td>C ADHESIVE (120-130µm)</td>
<td>No Limit</td>
<td>No Limit</td>
</tr>
<tr>
<td>D CONTACT (130-250µm)</td>
<td>No Limit</td>
<td>None =&gt; 10µm</td>
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</table>

**MM CONNECTOR**

<table>
<thead>
<tr>
<th>ZONE NAME</th>
<th>SCRATCHES</th>
<th>DEFECTS</th>
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</thead>
<tbody>
<tr>
<td>A CORE (0-65µm)</td>
<td>None</td>
<td>4 &lt;= 5µm None &gt; 5µm</td>
</tr>
<tr>
<td>B CLADDING (65-120µm)</td>
<td>No Limit &lt;= 3µm None &gt; 3µm No Limit &lt; 2µm 5 from 2-5µm None &gt; 5µm</td>
<td></td>
</tr>
<tr>
<td>C ADHESIVE (120-130µm)</td>
<td>No Limit</td>
<td>No Limit</td>
</tr>
<tr>
<td>D CONTACT (130-250µm)</td>
<td>No Limit</td>
<td>None =&gt; 10µm</td>
</tr>
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</table>
WHAT HAPPENS IF THE OPTICAL CONNECTOR ENDFACE BECOMES CONTAMINATED?

Examples of common contaminants adhering to end face:

- Hand Lotion
- Fiber Residue
- Dirt and Dust

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?

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

for SC, FC, ST, E-2000

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.

FOR MORE DETAILS ABOUT THIS SOLUTION, PLEASE CONTACT YOUR OCC SALES REPRESENTATIVE.
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.

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).
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.

### Xpress Ultra™ Cleaner Mini

- 400+ cleanings for each cleaner
- 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

#### ORDER CODE

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<tr>
<td>RFCSCM2</td>
<td>Xpress Ultra™ Cleaner Mini 2.50 for SC, FC, ST</td>
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#### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Compatible Connectors</th>
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<tbody>
<tr>
<td>Xpress Ultra™ Cleaner Mini 1.25</td>
<td>MU, LC, PC and APC</td>
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<tr>
<td>Xpress Ultra™ Cleaner Mini 2.50</td>
<td>SC, FC, ST, E-2000 PC and APC</td>
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<tr>
<td>Attachment Color</td>
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</table>

### Xpress Ultra™ Cleaner for MPO

- 600+ cleanings for each cleaner
- 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

#### ORDER CODE

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<td>Xpress Ultra™ Cleaner MPO</td>
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#### SPECIFICATIONS

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<td>Xpress Ultra™ Cleaner MPO</td>
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<tr>
<td>Compatible End Face</td>
<td>Compatible with flat and 8 degree angled endface with or without guide pins</td>
</tr>
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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.

**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

- 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.

**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.

**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.

**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.
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 contamines that negatively impact your fiber optic network
• Removes dust, lint, skin oil, water residue, 70% IPA residue, vegetable oil, and much more!
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.

**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

**ORDER CODE**
<table>
<thead>
<tr>
<th>ORDER CODE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFCSSSMF</td>
<td>Xpress Ultra™ Source Mainframe</td>
</tr>
</tbody>
</table>

**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

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.
The Xpress Ultra™ Meter measures power in both 850 nm/1300 nm (Multimode) and 1310 nm ~ 1625 nm (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.

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

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**Xpress Ultra™ Checker**

**VISIBLE FAULT LOCATOR**

**FEATURES**
- Class 2M Laser
- 650 nm +/-10 nm at 25°C
- < 10.7 nm Spectral Width
- CW / Pulse Mode
- AAA 1.5Vx2 Battery
- Output Power Reliable +/-0.2 mW
- Visibility to 3 Km
- 0~ 50°C Operating Temperature
- 0~ 70°C Storage Temperature

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**ORDER CODE**

<table>
<thead>
<tr>
<th>ORDER CODE</th>
<th>DESCRIPTION</th>
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<tr>
<td>RFCSCSM</td>
<td>SM Xpress Ultra™ Meter 1310/1550nm 3 digits</td>
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<tr>
<td>RFCSCMMM</td>
<td>MM Xpress Ultra™ Meter 850/1300nm 2 digits</td>
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<tr>
<td>RFCSCADAPT</td>
<td>2.5mm to 1.25mm Adapter</td>
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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>850 nm/1300 nm</th>
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<tbody>
<tr>
<td>Optical Power Range (Multimode)</td>
<td>-30 dBm ~ -15 dBm</td>
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<tr>
<td>Wavelength (Singlemode)</td>
<td>1310 nm ~ 1625 nm</td>
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<tr>
<td>Optical Power Range (Singlemode)</td>
<td>-40 dBm ~ +5 dBm</td>
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<tr>
<td>Battery</td>
<td>AAA 1.5Vx2</td>
</tr>
<tr>
<td>Resolution</td>
<td>1 dBm / 0.1 dBm</td>
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<tr>
<td>Fiber Connector</td>
<td>Universal Type</td>
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<tr>
<td>Display</td>
<td>2 Digit (MM) / 3 Digit (SM)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0~ 50°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>0~ 70°C</td>
</tr>
</tbody>
</table>
GLOBAL PARTNERS & LOCATIONS

**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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