

# SECURE NETWORK SOLUTIONS GUIDE

ENSURING YOUR DATA INFRASTRUCTURE PERFORMS SECURELY AND FLAWLESSLY



OCC has a long history of providing extremely strong, lightweight, rugged, and survivable fiber optic cables to the market, as our first customer was the U.S. Military. OCC secure solutions offer top-ofthe line network security and as well as more efficiency, speed, and convenience in identifying networks. Our wide offering of keyed, non-keyed color-coded and secure products allow you to completely customize the installation of LC and MTP connectors and cables from the data center to the network. We offer pre-terminated customized assemblies, and trunks, and have a full connectivity offering – making us a **one-source provider for your network needs**.

OCC KEYED LC CONNECTORS

#### **APPLICATIONS**

MILITARY IT NETWORKS | SECURE FEDERAL & GOVERNMENT IT NETWORKS COMMERCIAL DATA CENTERS | PRIVATE NETWORKS | INDUSTRIAL PROCESS CONTROL | FIBER SENSOR APPLICATIONS | SCIFs | NIPR/SIPR NETWORKS



SECURE LC CONNECTORS

#### **FEATURES & BENEFITS**

- » Optical Cable Corporation (OCC's) Keyed & Secure LC connector's offers limited accessibility to fiber optic networks through a physically restrictive cross connect system.
- » By utilizing the OCC Secure solution, network administrators can easily segregate networks for security or confidentiality concerns.
- » The keyed adapters prevent any standard LC connector from being mated. The keyed adapters must be mated with the same color keyed connector.
- » For added security, our secure LC connectors offer a tamper-proof solution and require an extraction tool to remove the connector.
- » The solution is offered as single mode quality but can also be used for 50µm, 62.5µm, and 10 Gig applications.
- » Available in 12 color-coded options that limit unauthorized access to network ports.



SECURE LC-MTP CABLE ASSEMBLY





#### **KEYED LC ASSEMBLIES**

OCC's Keyed LC solution utilizes physical mechanical variations within the adapter to provide the ability to isolate networks for privacy and security concerns. Each network is easily identified visually through (XX) color-coded keyed adapters and connectors preventing improper connection between separate networks with shared access. *\*See table below for ordering information.* 

#### **BENEFITS**

CAN BE USED IN ANY LC DUPLEX PRODUCT TO ADD A LAYER OF SECURITY

#### SECURE LC ASSEMBLIES

OCC's Secure LC Connectors prevent unauthorized and inadvertent changes in highly sensitive application where multiple physical layer classifications may exist. The compact Uni-body LC design plugs to any industry compliant LC adapter or active device port but cannot be disconnected without the use of a special extraction tool. Available with eight different key configurations and a lockable dust-cap feature as standard options. *\*See table below for ordering information*.

#### BENEFITS

UNIVERSAL PLUG THAT FITS INTO ANY STANDARD LC DUPLEX AND QUAD ADAPTERS AND TRANSCEIVER INTERFACES

#### **NON-KEYED COLORED LC ASSEMBLIES**

#### BENEFITS

ALLOWS INSTALLER TO EASILY IDENTIFY NETWORKS QUICKLY

### PART NUMBERING SCHEME

THIS CONFIGURATION DOCUMENT IS DESIGNED TO ALLOW FOR FASTER AND A MORE ACCURATE QUOTING REFERENCE. Should you have any questions see configuration management



BEIGE



# **KEYED & SECURE ADAPTERS**

#### **KEYED-TO-KEYED LC ADAPTERS**

#### BENEFITS

INSTALLER CAN USE PRE-TERMINATED ASSEMBLIES AND PIGTAILS FOR A PLUG-N-PLAY SOLUTION

#### **KEYED-TO-NON-KEYED LC ADAPTERS**

OCC's Keyed-to-Non-Keyed Adapters provide a layer of mechanical security on the front end with an industry compliant LC adapter in the rear. Installer can use standard Fan-Out's, Pigtails, Mechanical and Splice Connectors as well as pre-terminated assemblies.

#### **BENEFITS**

PROVIDES A LAYER OF SECURITY FOR ORGANIZATIONS TO PREVENT IMPROPER CONNECTION OF SEPARATE NETWORKS WITH COMMON ACCESS POINTS FOR TECHNICIANS

#### STANDARD COLORED LC ADAPTERS

#### BENEFITS

COLOR-CODED STANDARD ADAPTERS & CONNECTORS COMMONLY USED IN PRODUCTS TO IDENTIFY DIFFERENT NETWORKS/SYSTEMS



# **GET TO KNOW OCC**









WALL MOUNT WTC ENCLOSURE

WALL MOUNT MINI CASSETTE ENCLOSURE (ZDMBC1AP)

DIN RAIL FIBER ENCLOSURE

\*CUSTOM KEYED/SECURE CONFIGURATIONS AVAILABLE UPON REQUEST

### OCC is leading manufacturer of a broad range of fiber optic and copper data communication cabling and connectivity designed for the enterprise market, harsh environments, and other specialty markets.

Federal and Government Agencies choose OCC because of our rugged products and our customer-centric approach to every project. We understand the need for mission-critical reliability and maintaining information at the highest security level, that's why the U.S military has a long history of working with OCC. You can count on OCC to provide solutions that offer flawless performance, exceptional integrity, and innovative technologies to meet the demands of today, as well as, for the future.

- » USA Operations: With three strategically located facilities across the U.S., we offer quick lead times, fast shipping, and engineering and customer services teams ready to answer all your questions.
- » Small Business: OCC is a certified small business by the U.S. Small Business Association (SBA), our team of experts are leaders in technical and customer support. As a small business we can easily pivot to meet customer demand and customized needs.
- » One Source Provider: OCC's robust offering of endto-end structured cabling and connectivity products support any environment including secure data centers, secure communications, backbone cabling, harsh environments, and passive optical LAN (POL).
- » Quality: Our solutions are some of the most rugged, reliable, and innovative cabling and connectivity products your department demands.

- » Innovation: We are the only company to offer a QPL rated ground tactical fiber optic cable.
- » Network Expertise: Our history and growth have helped us attract and retain experts in manufacturing, engineering, and design-build applications that provide unprecedented service, support, and assistance.
- » Repair & Restoration: We understand breaks happen, that's why we offer repair services that are robust and convenient. Whether it's an OCC product, or one from somewhere else, we can fix it.
- » ISO-9001: 2015 at all three locations.
- » MIL-STD-790 certified in our Roanoke, VA and Dallas, TX locations.
- » 25-Year Guarantee: Through our network of certified MDIS installers, we offer a 25-year installation warranty along with our standard warranty plans to provide long-lasting network installations.

## OCC IS PROUD TO WORK WITH FED/GOV CUSTOMERS FROM



#### 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 800.622.7711 VISIT US AT OCCFIBER.COM

CONTACT US AT INFO@OCCFIBER.COM