Copper or Fiber... Data & Power Solutions Optimized for Low Loss Performance in Commercial and Military Environments
PHOENIX OPTIX
Wiring Solutions that Meet Critical Demand Requirements

PHOENIX OPTIX
Phoenix Optix manufactures copper and fiber assemblies and related components for data and power delivery with industry leading low-loss performance. Our goal is to provide industry best products in a timely manner that enables our customers to meet their critical delivery & performance requirements.

ISO CERTIFIED
Phoenix Optix adheres to the strictest ISO 9001 procedures so customers can rely on us for a quality product each and every time.

All products are manufactured and tested by Phoenix Optix to meet your industry standard applications.

• TIA-455-171 Insertion Loss
• TIA-455-107 Return Loss
• IEC 61300-3-35 Visual Inspection
• IEC 61755-3-1 Endface Geometry, Single-Fiber, PC
• IEC 61755-3-2 Endface Geometry, Single-Fiber, APC
• IEC/PAS 61755-3-31 Endface Geometry, Multi-Fiber
• MIL-STD-2042-6B Fiber Test Methods
• PPD 802 6337554-9.2 Fiber Test Methods

PRODUCTION CAPACITY
Our 40,000 sq. ft. facility located in Ashaway, RI is staffed with highly trained technicians using the latest in automated industry standard equipment.

Through continual process improvements, Phoenix Optix has developed a product range of optimal performance and low-loss products. This ensures confidence and reliability in today’s high speed networks.

KNOWLEDGEABLE STAFF
Experienced and trained staff are ready to assist and answer any questions you may have.

Please feel free to contact us and become part of the growing list of satisfied Phoenix Optix clients.

Phoenix Optix Support Center
Call 401-637-4600

TE Components ...TE Technology ...TE Know-how ...
AMP | Agastat | CII | Hartman | Kilovac | Microlit | Nanonics | Raychem | Rochester | DEUTSCH
LL Rowe | Phoenix Optix | SEACON

Get your product to market faster with a smarter, better solution.
Product Families
- Multifiber
- Fiber Jumpers
- MTP® Solutions
- Enclosures
- PowerDrive
- Passive Optical LAN
- Harsh Environments
- Broadcast Solutions
- Military Mil Spec Assemblies

Markets Served
- Aviation
- Alternative Energy
- Broadcast
- Cellular Networks
- Communications
- Data Center/Co-Lo
- Industrial Automation
- Marine
- Military
- Medical
- Mining/Railroad
- Oil and Gas
- Shipboard
- Transportation
- Utilities

* Phoenix Optix LUMINIX family of fiber products uses MTP® connectors.
### Multifiber Cable Assemblies

**Factory Terminated for Easy Installation**
- Reduced installation time
- Lower installation cost
- Eliminates cable and connector scrap

**Wide variety of cable and connector options**
- Allows more flexibility in network design
- Suitable for many different applications
- Generic or manufacturer specific

**Phoenix Optix certified testing**
- Ensures desired optical performance
- Documented test results
- Meets TIA/EIA-568-C.3

**Ease of installation**
- Ready to deploy on arrival at job site
- Eliminates the need for field tools and consumables
- Custom labeling for quick and easy identification

Note: Multifiber, multimode low loss version available. Typical .10dB max .15dB insertion loss and <-30dB return loss

### Fiber Optic, Copper & Metal Solutions

#### Multifiber Products

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### Fiber Jumpers

**Standard Fiber Jumpers**

**Suitable for your specific network needs**
- Various Connector and Cable Types

**Lower loss increases network performance**
- Meets TIA/EIA -568-C.3 for IL and RL

**Longer life cycle and increased optical performance**
- Meets IEC PAS 61755-3-1 and 61755-3-2

**LC High Density Patch Cords**

**Small footprint**
- Up to 60% increase in density compared to a standard LC
- Saves valuable rack space

**Easy release trigger connector**
- Allows color coding for network segregation
- Quick and easy insertion and removal
- No hand tools required

**Mini LC Patch Cord**

**Ferrule to ferrule 5.25 pitch**
- Provides higher density blade port count
- Improves overall blade high density management
- Compatible with the mini SFP (mSFP) transceiver

**Reverseable LC Uniboot Patch Cords**

**Reverse polarity**
- No need to re-terminate or purchase another patch cord

**Adjustable pitch**
- Standard LC (6.25) patch to mini LC port (5.25)
- Compatible with the mini SFP (mSFP) transceiver

**Quick release latch**
- Quick release latch
- Easy push/pull method to release connector from the port
- No need to unplug other cable assemblies in high density area

Note: Standard patch cord, multimode low loss version available. Typical .10dB max .15dB insertion loss and <-30dB return loss
LUMINIX SOLUTIONS

MTP® Trunks and Harness

High Performance
- Meets attenuation and return loss TIA/EIA-568C.3 and ISO/IEC 11801
- Endface requirements meets PAS 61755-3-31
- Low loss solutions contribute to overall network reliability
- Supports migration to 10GbE & 100GbE

Cost savings
- Reduces installation time up to 80%
- Reduces raw material scrap and waste
- Efficient and green

Easy to install
- Ready to deploy on arrival at job site
- No specialized training required
- Labeling allows for quick and easy identification

Wide variety of cable and connector options
- Allows flexibility in network design
- Suitable for many different applications

MTP® Cassettes

Wide array of options
- High density and standard footprints
- 2-24F LC, SC, ST - singlemode and multimode
- Conversion cassettes to migrate to 40GbE and 100GbE

Custom solutions
- Overall dimensions, polarity and mounting capabilities
- Unique color coding

Easy to install
- Snaps directly into the enclosures
- Labeling for easy identification

Performance
- Meets attenuation and return loss TIA/EIA-568C.3 and ISO/IEC 11801
- Endface requirements meets PAS 61755-3-31
- Low loss solutions contributes to overall network reliability

Note: LUMINIX, multimode low loss version available. Typical .2dB insertion loss <-30dB return loss

ENCLOSURES

Enclosures

Flexibility
- Interchangeable with the Luminix line and traditional multifiber assemblies

Protects, organizes and secures
- Constructed with durable 16 gauge powder coated steel
- Lockable front door
- Removable top and slide out tray for easy access
- Installed 19” or 23” rack
- Fiber counts up to 96 fiber in 1RU footprint

Adapter Panels

Comprehensive selection
- Available with all industry standard adapters
- Labeled or silkscreened for easy identification
- Snap in design can be easily removed to facilitate changes
**Fiber Optic, Copper & Metal Solutions**

**POWERDRIVE**

Power Distribution Cable Assemblies

**Performance and quality**
- UL listed
- Hi-Pot tested at twice the rated circuit voltage plus 1000volts

**PASSIVE OPTICAL LAN**

Passive Optical LAN

**Reliability**
- Highly secure for LAN infrastructure
- FIVE 9’s of reliability (99.999%) with 5 minutes of downtime per year
- No 100 meter design limitations

**Green-IT**
- Tremendous reduction in power cooling
- Reduction in space consumption

Passive Optical LAN

**Cost savings**
- Up to 50% reduction in capital cost to install
- Up to 75% reduction in operating expense
- Higher Life expectancy than traditional copper installations

**Flexibility**
- More pathway options
- Multiple applications such as IP VOICE, DATA AND VIDEO

**MIL SPEC FIBER OPTIC CABLE ASSEMBLIES**

Submarine and Ship Board Applications

- Defense
- Geo physical
- Various sonar solutions
- Communications
- Security

**Quality and reliability**
- Built in accordance with US NAVY PPD 802-6337554 SPEC
- Pressure tested
- Low insertion loss and return loss

**Various configurations**
- Neoprene and polyurethane assemblies
- Fiber
- Hybrid: fiber/copper
- Custom design for specific requirements

Power Distribution Cable Assemblies

**Wide variety of options**
- NEMA straight and locking blade receptacles
- IEC 309 pin and sleeve
- Russellstoll® connectors, IBM style
- Liquid tight, MC cable, tray cable and SO cable
Multi Channel Hermaphroditic Assemblies

Rapid field deployment
- Pre spooled and tested
- Eliminates gender mating issues
- Assemblies can be concatenated
- Consistent polarity
- High count mating cycles

Durability and reliability
- Water and weather resistant
- Helps withstand extreme mechanical and environmental issues
- Shock and vibration resistant
- Longevity to corrosive environments

Broadcast Assemblies

Comprehensive solution
- SMPTE: studio, indoor/outdoor, stadium, steadicam use
- Expanded beam and tactical options
- Rugged, reliable and vibration resistant
- Temporary or permanent installations
- Panels and enclosures

IP68 Rated Fiber Assemblies

Cost effective
- Overall cost per assembly is less expensive than many other options
- Rapid connection of 12 fibers
- No specific tools or training required

Ideal for limited access and hazardous areas
- Temporary or permanent installations
- Wide range of operational temperatures
- IP68 water immersion and dust protection
- Lightweight and durable