

solution



Fiber Optic Cabling

Transmit light signals between communications or electromechanical devices.



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Custom Cable's fiber optic assemblies connect people and business to a telecommunications infrastructure—at higher speeds and greater bandwidth than ever thought possible. Current trends and future breakthroughs include:

- providing the backbone of HDTV from service providers to customers—transmitting high-definition quality video over increasing distances without loss, glitches or interference.
- highest levels of signal transmission security—allowing the smallest loss in optical signal to trigger an alarm anywhere in a system.
- paving the way for next-generation phones and communication devices—combining crystal clear audio and video signals in real time via phone calls spanning the globe.
- increasing the speed in which LAN, SAN and PAN networks operate at home and in the office—with decreasing hardware costs, fiber to the home (FTTH) will change the way our networks communicate.
- illumination applications including medical and industrial endoscopes—aiding doctors in minimally invasive exploratory or surgical procedures (endoscopies) previously inaccessible.

Custom Cable advantage

Our decades of experience, comprehensive capabilities, and financial stability (through ownership by a Fortune 500 company) enable us to fulfill nearly any fiber optic cable assembly need—small or grand in scale.

- Service provider backbones
- Fiber to the home or office
- Business and government security
- Peer-to-peer networking
- Data centers
- Streaming audio-visual and multimedia

Considerations

With hundreds of fibers in a single cable, fiber optics can easily accommodate high bandwidth requirements and span great distances with extremely low data loss.

Fiber cables are not susceptible to the crosstalk that can occur between copper transmission lines. Optical fiber's resistance to electromagnetic interference permits use near high voltage equipment.

Because of its relatively low weight and ease of splicing, optical fiber is less costly and time-consuming to install than copper.

See reverse side for listing of fiber optic assemblies.

Types of fiber optic assemblies:

Fiber options:

GR326 Single Mode
• 9/125 μm

Multimode
• 50/125 μm
• 50/125 μm (aqua 10Gig)
• 62.5/125 μm
• 100/400 μm

Patch, Trunk, Pigtail
and Splitter Cables

Custom and
Standard Lengths
• Simplex and Duplex
• Multifiber
• Ribbon

Mode Conditioning

Bend Insensitive

Inside/Outside Plant

Expanded Beam/Military

Connector Styles

- LC
- SC
- ST
- FC
- D4
- MU
- MTRJ
- MTP
- BICONIC

Polish Finishes

- SPC
- UPC
- APC

Ferrule Types

- Ceramic
- Polymer

Jacket Sizes

- 900 μm
- 1.6 mm
- 2.0 mm
- 3.0 mm

Jacket Types

- OFNR (Riser rated)
- OFNP (Plenum rated)

Connectivity:

WDM Products

Patch Panels

Data Racks and Cabinets

Enclosures

Mechanical

Splices

Passive Switches
and Amplifiers

Cassettes “Click-Connect”

Couplers

Transceivers

Attenuators

Housings

Modular Zone Solutions

Test Equipment

Loop Backs

Terminators

Splitter Modules