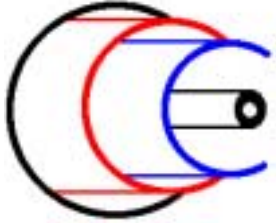


Custom Computer Cables

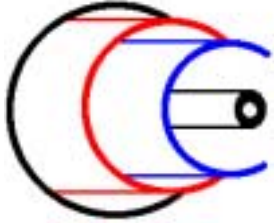
1300 E. Arapaho, Suite 330
Richardson, TX 75081
(972) 638-9309 Main
(972) 638-9314 Fax



CCC Core Competency

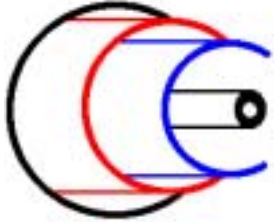
Manufacturing:

- Fiber and Copper Connectivity
- Proprietary Products

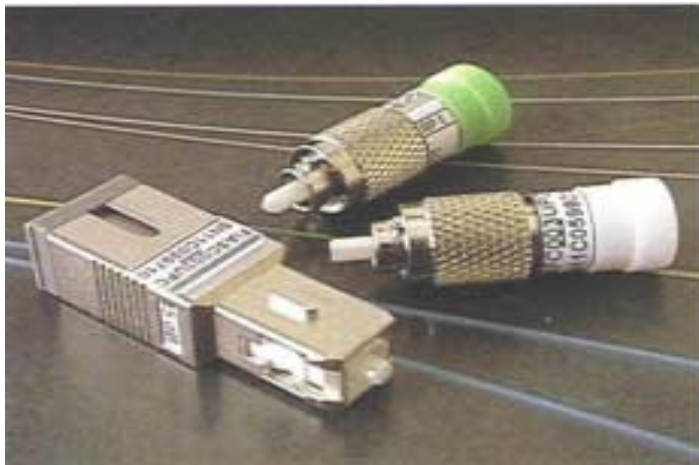


CCC Manufacturing

- **CCC Manufacturing** is an MBE, American Indian Company specializing in the manufacturing of Custom cable assemblies for fiber optic and copper environments, built to our customer's specifications.
 - **LUCENT** and **CORNING** recognized **VAR** of fiber assemblies
 - **100% testing** and certified by test report prior to shipping
 - **Lifetime warranty** on all assembly products
 - Fully automated for DS3, 734 and 735 coax assemblies
 - **ISO 9002** Quality program level 3 in process
 - Registration completion - 3rd quarter of 2001
 - **TL9000** Quality program in progress



FIBER OPTIC ATTENUATORS



General Specifications:

Standard attenuation values:

3.5, 10, 15, 20dB (custom values available)

Attenuation tolerance:

Standard: $\pm 15\%$
(Values at 5dB or less $\pm 0.75\text{dB}$)

Close tolerance: $\pm 10\%$
(Values at 5dB or less $\pm 0.5\text{dB}$)

Operating range: -40° - $+75^{\circ}$ C

Vibration resistance:

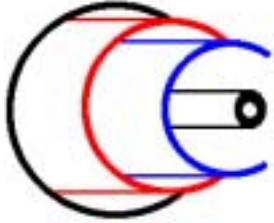
$< 0.1X$ attenuation value

Features

- Long Term Reliability
- Excellent Environmental Stability
- Low ripple, wavelength-independent attenuation
- Design certified to more than 125mW continuous power handling capability with no degradation in performance.
- Backreflection performance to $< -55\text{dB}$ available for UPC, APC available for requirements $< -60\text{dB}$
- Polarization insensitive

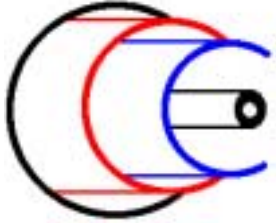
Fixed Attenuator Applications

- Long Haul Telecommunications
- Fiber In The Loop (FITL)
- Local Area Networks (LAN)
- Cable TeleVision (CATV), Video Distribution
- Passive Optical Networks
- Network Testing

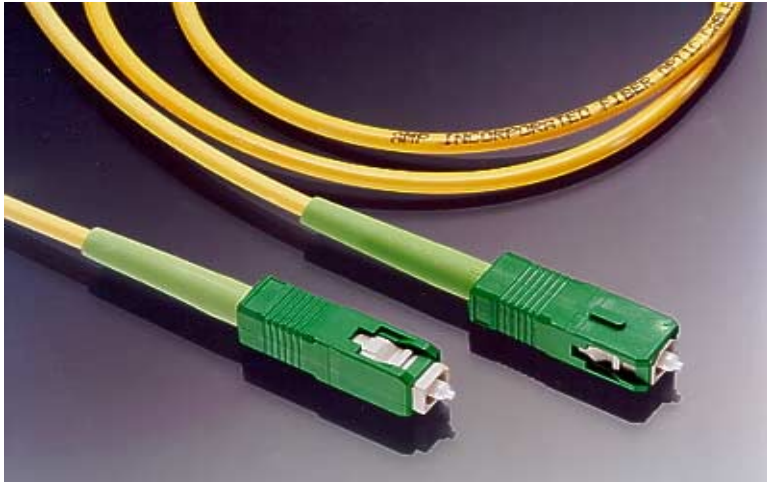


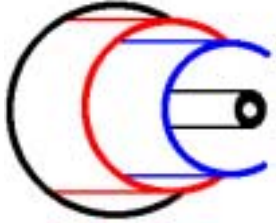
CCC Quality Program

- ***WHAT DOES OUR QUALITY PROGRAM MEAN TO OUR CUSTOMERS?***
- **Products are developed under a controlled methodology.**
- **Manufacturing processes are documented and controlled to ensure product consistency.**
- **All product is adequately tested before shipment with test results on file.**
- **Formal closed loop corrective action system is in place to fix problems and prevent new ones from occurring.**
- **The company performs formal internal audits of all of its key processes with a focus on continuous improvement.**
- **All employees involved in the design, manufacture, and testing are properly trained to perform a quality job.**



Fiber Assemblies

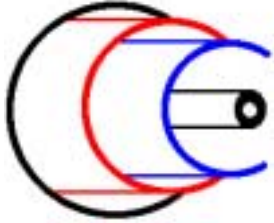




Fiber

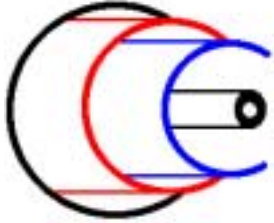
CCC's Fiber Assembly Plant consists of a Prep, Assembly area and a Test area (clean-room).





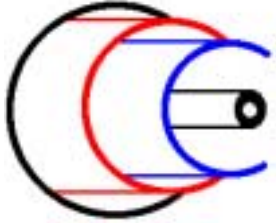
Available Fiber Products:

- **Ultra, Standard or Angle Polish**
- **FC, LC, SC, ST or STII+ Connectors**
- **90 or 180 Degree Connectors**
- **Single-Mode 1.6, 2.0 or 2.9mm**
- **Multi-Mode 50/125 or 62.5/125 Micron**
- **Simplex or Duplex (MIC, DIB, DFX or Zipcord)**
- **Multiple Fibers (from 2 up to 144)**
- **Loose tube, Tight or 900 Micron**
- **Breakout, Distribution or Ribbon**
- **Riser (OFNR) or Plenum (OFNP)**
- **Aerial, Armored or Direct Buried**
- **Corning, Lucent and other brands**



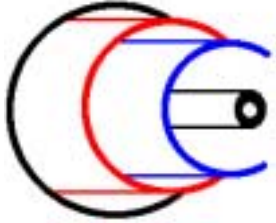
CCC Fiber Capacity

- **2500 Terminations per day**
 - Automated pneumatic 32 position fiber polishers
- **Quick turn around based on quantity and plant schedule**
- **Testing to:**
 - 4x Video scope
 - -.5db insertion loss guaranteed
 - -.3db insertion loss typical
 - UPC -55 back-reflectance standard
 - GR 326 Telcordia standards via interferometer
- **Quality**
 - Inline QC
 - Final packaging QC
 - 100% product testing



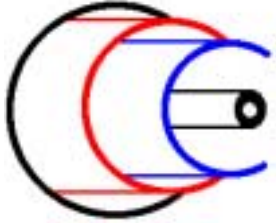
Copper Assemblies



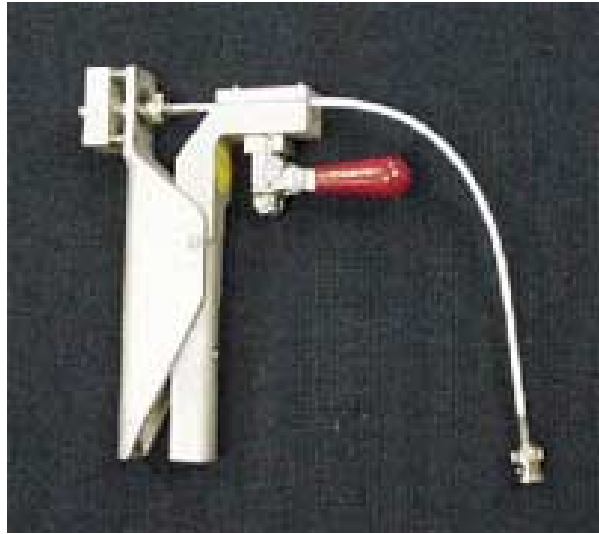


CCC's Copper Assembly Plant





Other Products



BNC Pull Tester

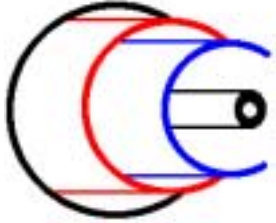


HDSL, ADSL

Test Cases

MDU Circuit
Board Assy





Specialty Products



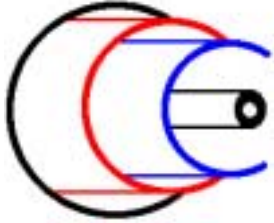
LAN Ether ports



Outside Telecom
Pedestals



Bulk Wire

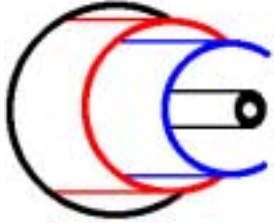


CCC Product Warranty

LIFETIME WARRANTY

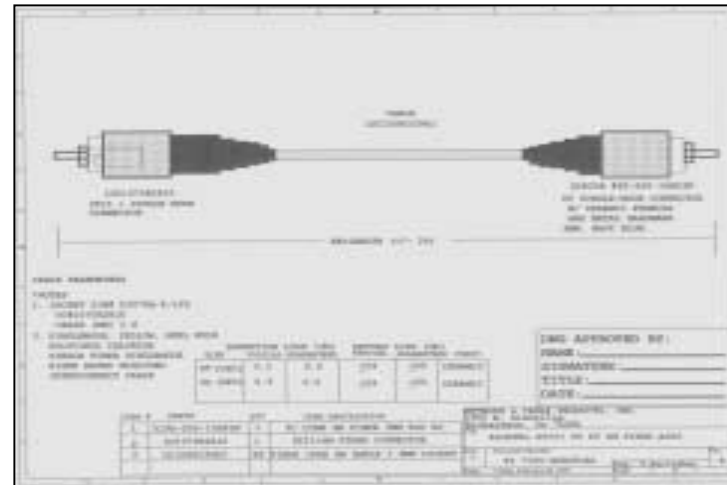
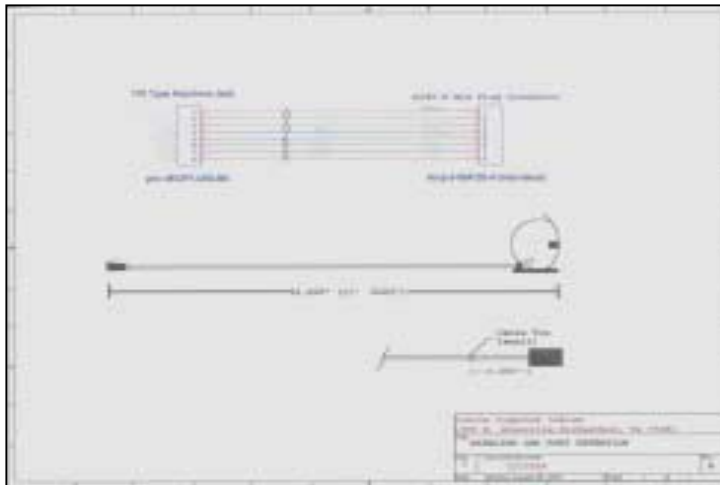
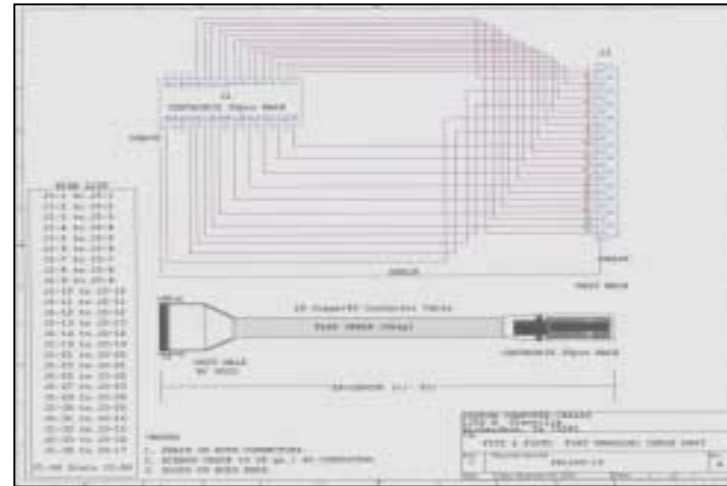
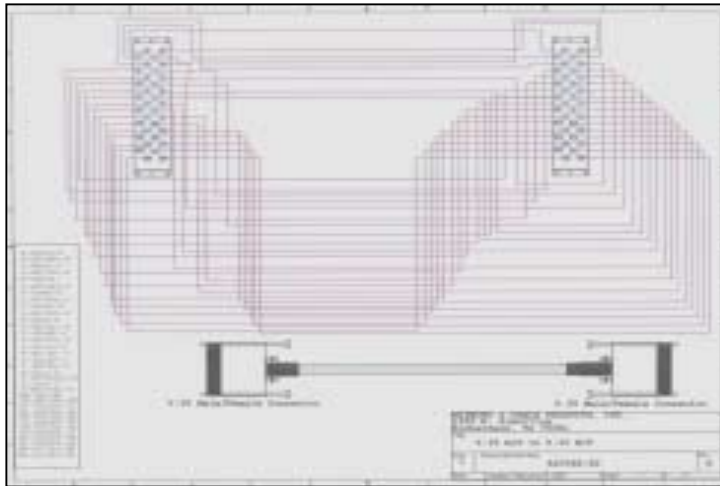
- *CCC MFG provides our customers with a Lifetime Warranty on all production cable assembly products!*
- Products other than cable assemblies have a manufacturer's conditional warranty from the date of purchase.
- The Warranty applies to cable assemblies that are manufactured by CCC Manufacturing, and installed and maintained by competent personnel in typical industry facilities.
- It applies only to the original user and in concurrence with CCC's normal warranty policy terms and conditions.
- For CCC Production's Lifetime Warranty to remain in force, products must not be subjected to alterations, misuse, or negligence; used for purposes other than its original intended use; or incur damage due to fire or natural causes.
- *We appreciate you ordering assembly products from CCC MFG and allowing us the opportunity to serve you!*

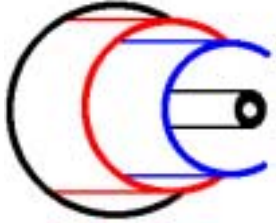
Jay Chenault
President



Value Added Services

CAD PRINT EXAMPLES

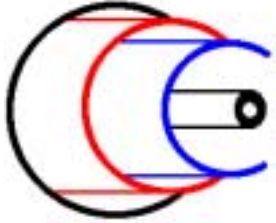




Value Added Services

RACK & STACK ASSEMBLIES





Professional Associations

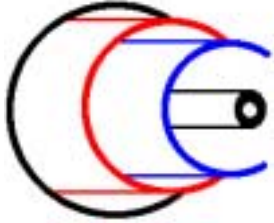
I/P for ISO 9002 (Reg: Sept 2002)

Perry Johnson- ISO Registrar

I/P TL 9002 (April 2002)

ASQ-American Society of Quality

Richardson Chamber of Commerce



Distribution Products

CCC is a Wholesale Distributor of Passive Voice and Data Telecommunication products for premise, outside plant, central offices, DS0-DS3 and DSX environments. Please refer to CCC Manufacturing for complimentary products along with the product brand listing below:

Distributors

Aim Electronics

Alpha Wire

American Insulated Wire

American Polywater

AT&T

Amphenol

APD

Arrow Electronics

Belden

Bell Tech

Berk-Tek

B-Line

Cambridge Products

Cinch

Circa Telecom

CommScope

Comtran Corp.

Condumex Inc.

Corning Cabling Systems

Corning Gilbert

DAMAC

Dynacom Inc.

Excel Wire & Cable

General Cable

Great Lakes Cabinets

Harbour Wire & Cable

Helix Hi-Temp Cables

Hitachi Cable

ICC Connectors

Klein Tools

Leviton

LucentMadison Cable

Mohawk Wire & Cable

MolexMontrose/CDT

Optical Cable Corp.

Quabbin Wire & Cable

Paladin Tools

Panasonic

Plantronics

Progressive Electronics

Red Devil

Remee Wire

Shaxon Industries

Signal Cable

Southwest Enclosures

Southwire

Superior Essex

Suttle Apparatus

Tappan Wire & Cable

Texarkana Wire

Times Fiber

TrippLite

Tyco AMP

Unity Manufacturing

Wright Line

Product Lines

Connectors

Data & D-Subs

Coax

Twinax

Triax

Modular Plugs

BNC, TNC, F, N Ethernet,

RISC 6000Flat Cable

IDC

Fiber Optic

IBM

MP-1

BCON

Fiber Optics Cables

Connectors

Jumpers

Consumables

Wall Mount Cabinets

Rack Mount Cabinets

WDM

Red Devil Products

Plenum Cables

NEC Article 800

Telephone

NEC Article 725

PLTC & COAX

NEC 760

Fire Alarm Hardware

Relay Racks

Enclosures

Shelves

Junction Boxes

Screws

Jacks

Patch Panels

110 Hardware

Balluns

Patch Cords

Surge Protectors

Pedestals

Test Equipment

Rack Ladders

LAN Equipment

Transceivers

Telecom Prod

AT&T PDS

Components

Station Cable

Outside Plant Cable

Riser Cables

Cross Connect Wire

Connecting Blocks

Connecting Devices

Backboards, Faceplates

Building Entrance Terminals

Telco Assemblies

Station Protectors

Headsets

Security -Fire

Security Cable

CL2, CL2P

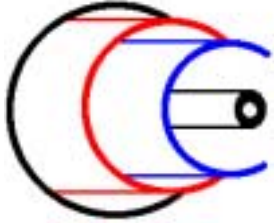
ART 760

FPI, FPLR & FPLP

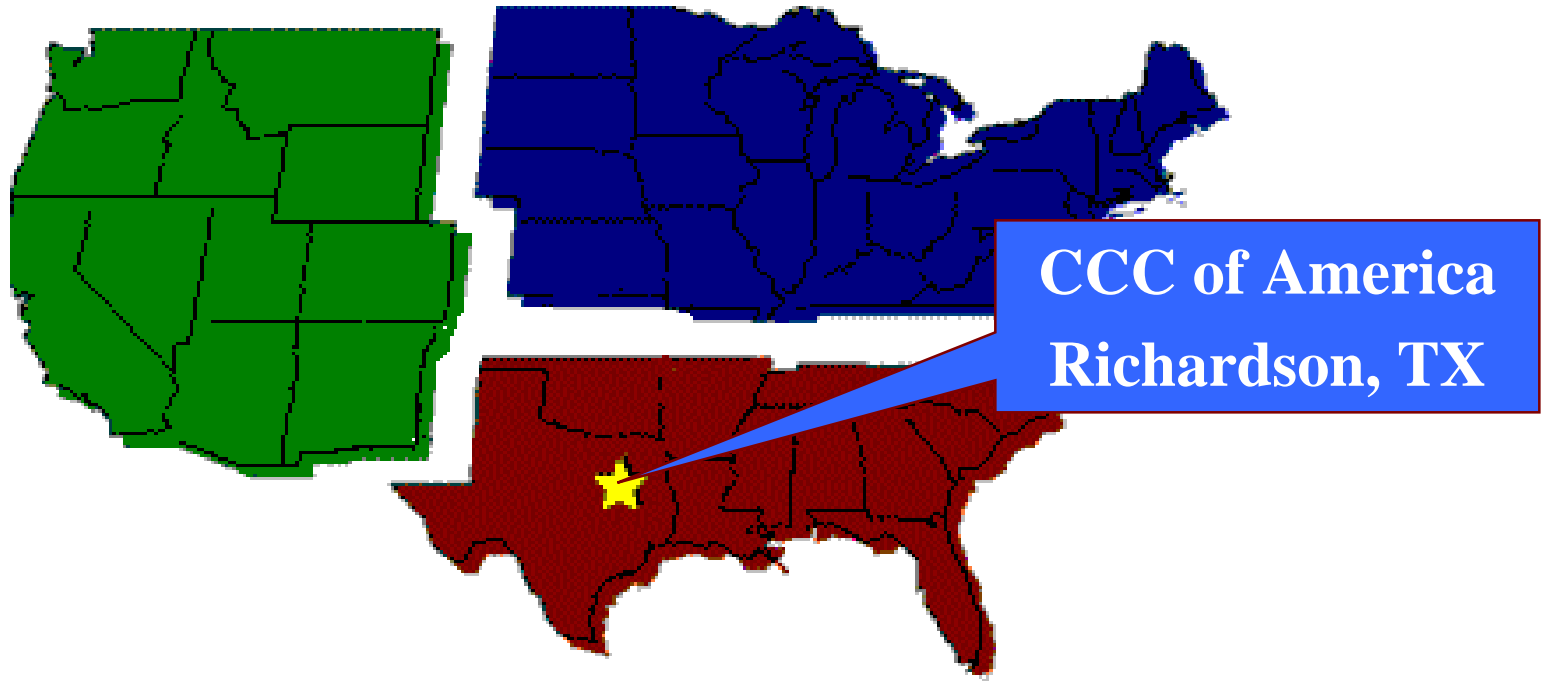
CATV

Splitters

Silicone



Location



CCC's Manufacturing plant is based in Richardson, Texas at 1300 E. Arapaho, Suite 330, located strategically in the Telecom Corridor to better service our customers.