WE’RE ALL IN FOR THE CONNECTION

Your leading one-stop shop for all materials, distribution, and supply chain management solutions supporting the telecommunications and broadband industry. We’re more than a distributor, we’re your trusted partner for technical and logistics expertise. From the headend to the home, we’ve got you covered. All In One. All For Your Network.

FTTH Drop Installation Product Guide
ONE STOP SHOP
ONE ON ONE CONNECTIONS

CUSTOMIZED FOR YOU
We believe that customers deserve customization. With flexible delivery models, a plug-and-play approach, and modular set of value-added services, we’re your trusted partner to support your business needs from basic procurement to supply chain management, and everything in between. Call 1-833-USTC-CORP and we’ll create a customized solution to streamline your needs.

THE MATERIALS YOU NEED
We supply the products, materials, state-of-the-art tools and test equipment from the largest top-quality manufacturers for telecommunications providers, tier 1, 2, and 3 cable operators, rural utility providers, electric cooperatives, and contractors. From the headend to the home, we’ve got you covered with optimeters, splice machines, splitters, attenuators, tools, pigtailed, patchcords, underground vaults & pedestals, raceway, fish tape pulling systems, and anything you need for the network.

THE RELIABILITY YOU WANT
You can count on us. Our timely focus will support your critical projects and operations, so you can focus on building, maintaining, and growing the network.

SAVE TIME
Our technical and logistics expertise, and our utilization of supply chain technologies help simplify and optimize your operations, allowing you to focus on your business knowing the supply chain is well managed.

SAVE MONEY
Our scale and expertise translate into significant operating and purchase cost benefits for our customers, letting you focus on helping your subscribers connect to the people and things they love.

PART OF THE ETC GROUP FAMILY
USTC Corp is the leading one-stop shop for all materials, distribution, and supply chain management solutions for telecommunications, HFC, FTTH, FTTx, wireless, and data center technologies with global presence across 13 countries as part of ETC Group. Founded in 1993 by Cédric Varasteh, ETC Group now supports over 14,000 customers worldwide, giving us the unique advantage of global purchasing power that helps drive costs down for our customers. Walker, Comstar Supply, and Multicom were acquired by USTC Corp and together the Group has 13 distribution locations across the U.S. With a comprehensive portfolio of 55,000+ state-of-the-art products from nearly 1,000 industry-leading suppliers, and best-in-class logistics solutions, we support thousands of carriers’ full range of products and solutions for seamless delivery of high-speed Internet, Video, Data, and Voice Services to Residential, Business, and Mobile Users.
From the Distribution Network to the Customer Premises, we have you covered with everything needed for FTTH deployment. We carry products and materials from nearly 1,000 global sourcing a supply partners, including:
Inspection Scope

EXFO FIP-500 - Fiber Inspection Scope

Key Features:
- Fastest inspection in the industry (in under 10 seconds for MPO-12)
- Zero-button inspection: 100% automated from insertion to data saving
- Smartphone-grade 2.4-inch color touchscreen
- Test all day without any interruption: long-lasting battery and memory space to store results locally - 1800 (MPO)


Key Features:
- Connector inspection probe with integrated touchscreen display – works autonomously
- Fully automated operation: auto focus, auto image centering and auto pass/fail analysis
- Wi-Fi/BlueTooth connectivity
- Dual magnification with toggle button allows easy switching in both live and analysis views
- Comes with soft case and inspection tips for SC/UPC, SC/APC, LC/UPC, and LC/APC

Application:
- Inspect and certify fiber end-face quality at the push of a button, making your technicians instant fiber experts

Visual Fault Locators - VFL

Key Features:
- Visible wavelength is ~650 nm
- High powered laser (models from 1 mW to 25mW) for single-mode and multimode connectors
- Continuous or Flash illumination
- 2.5 mm connector input (1.25 mm adapter available)

Live Fiber Identifiers

USTC Corp Live Fiber Identifier

Key Features:
- Traffic direction indicator
- Tone detection LEDs (270 Hz, 1-2 kHz) with audible warning
- Low power indicator

EXFO LFD-300B/TG-300B FiberFinder - Live Fiber Identifier/Tone Generator

Key Features:
- Pinpoints a specific live fiber using EXFO's FiberFinder™ functionality
- Induces minimal loss: ≤1 dB

Application:
- Enables technicians to identify a specific live fiber without having to disconnect it and, above all, without having to guess. The result is no more network outages caused by inadequate fiber detection or identification, and a minimized need to access the network, helping to prevent errors.

Optical Power Meter (OPM)

USTC Corp Optical Power Meters (OPM)

Key Features:
- Ergonomic and easy-to-use photometer
- Precise device offering the ability to measure power at 6 wavelengths
- 100 hours battery life
- Supplied with Universal adapter
- Results in µW or dBm and dB for relative measurement
- Built-in defect locator VFL 1mW available in 1 model

VIAVI OLP-37X / OLP-37X2, Selective PON Power Meter G-PON (1490nm) + XGS-PON (1577nm)

Key Features:
- Wavelength-selective G-PON and XGS-PON power meter
- Tests B-PON, E-PON, G-PON downstream at 1490 nm
- Tests XGS-PON at 1550 nm downstream and at 1577 nm
- Indication of simultaneous presence of G-PON and XGS-PON signals (OLP-37X model)
- Dual-port non-contact fiber connection (OLP-37X2 model)

Application:
- PON downstream test
- G-PON & XGS-PON power meter (OLP-37X model)
VIAVI OMK-35V2 Kit - Pocket-Sized Power Meter with Optical Light Source Kit

**Key Features:**
- Ready when you need it - ultra-high reliability
- Low power consumption for extended continuous use and Instant On
- No boot time and no setup: ‘OptiChek’ measurement mode
- Fast Auto-λ, Multi-λ mode (~1 sec) and clear pass/fail information
- Automatic upload of results via VIAVI Mobile Tech application

**Application:**
- Measuring power levels and link insertion loss

EXFO Optical Explorer OX-1: The Industry’s First Optical Fiber Multimeter

**Key Features:**
- Displays fiber length, loss and optical return loss (ORL) in under 3 seconds
- On-the-spot detection and location of common causes of failures
- Intelligent: no settings required make it an essential for any frontline technician’s toolkit
- Built-in power checker and light source

**Application:**
- FTTx last mile installation
- FTTx service activation and repair, including in-service testing
- Power level testing
- Insertion loss and ORL testing
- Fault identification and location (splices, connectors, and macrobends)

VIAVI Fiber Meter for PON/FTTx Last Mile Installation and Repair

**Key Features:**
- Simple user interface requires no settings and no training
- Combines all the key features and capabilities to enable installers to certify the last mile drop performance is in line with expectations
- Identify and locate any issues and determine if it is their responsibility to fix while still on site or hand off to the correct repair team
- Built-in selective PON Power Meter

**Application:**
- Faults identification, mapping & power level verification
- Continuity-to-OLT & Splitter Connectivity Check (patent pending)
- ONT detection

VeEx OPX-BOXe Rugged, Pocket-Sized Mini OTDR

**Key Features:**
- Up to 3 wavelengths for OTDR testing including live port (1625 nm, 1650 nm)
- Up to 43 dB dynamic range and testing 1/4m dead zones
- Optional light source (via OTDR port) & built-in Visual Fault Locator (VFL)
- Multimode and Singlemode wavelength test options - 850, 1300, 1310, 1490, 1550, 1625 and 1650 nm
- Ultra-compact OTDR designed to operate remotely using Fiberizer® software

**Application:**
- OPX-BOXe combines powerful OTDR testing with familiar Smartphone or Tablet ease of use. Connected to your mobile device, technicians can perform fiber optic tests and be connected to co-workers and managers for work instructions or test data sharing
VIAvI OLP-87P XG-PON 1310/1490/1550/1270/1578 nm with Integrated PCM & P5000i – B, C, E, XG-PON, 10G-EPON & RF Video

**Key Features:**
- Through-mode capability for simultaneous measurement and display of downstream and upstream wavelengths – low insertion loss
- Automated pass/fail fiber inspection analysis with optional P5000i microscope
- Up to 10,000 measurement results storage, downloadable through USB or Ethernet interfaces
- 3-year calibration interval

**Application:**
- PON for FTTH and 5G
- Can be used to conduct measurements during passive optical network (PON) activation, maintenance, and troubleshooting

EXFO PPM-350D Next-Gen PON Power Meter

**Key Features:**
- Supports 10G-capable PON networks
- Pass-through mode for ONT/ONU verification
- Bluetooth and USB connectivity
- Smart app to configure, execute and report jobs
- The first PON-aware™ power meter to automatically detect and test next-gen and legacy PON technologies

**Application:**
- Supports legacy & next-gen PON technologies, including XGS-PON and NG-PON2
- Multi-layer PON service activation
- Meter automatically detects and adapts test parameters for the PON technology in use at the customer premises, eliminating costly guesswork by field technicians

VeEX® MTTplus-420 GPON Module and MTTplus Mainframe

**Key Features:**
- Two port pass through mode for measuring ONT upstream and downstream level measurements for 1310, 1490 and optional 1550 nm
- Expert Mode:
  - PLOAM advanced ONU information and PLOAM control messages display
  - FEC detection, display OLT TX, PON type, and budget
  - List all active ONT IDs and serial numbers
  - PLOAM decoder and display PLOAM control messages
  - OMCI decoder and display OMCI messages

**Application:**
- Designed for service activation at the ONT location
- Checks power levels, non-intrusively decodes the messages exchanged between the OLT and ONT allowing technicians to perform advanced troubleshooting
EXFO EX1

**Key Features:**
- Gigabit, GPON and Wi-Fi tester
  - Wireless interface (Wi-Fi) for both Speedtest® by Ookla® and Wi-Fi channel map capabilities. Support of 2.4 GHz and 5.0 GHz Wi-Fi frequency bands
  - GPON ONT emulation allows the ability to detect PON ID, ONU ID, optical RX power, OLT optical TX power, ODN loss, & ONT operational status
  - Full line rate capable gigabit tester powered by the industry-leading Speedtest® by Ookla® algorithm. Supports VLAN and PPPoE
- Latency, download and upload throughput performance metrics with adjustable pass/fail thresholds based on subscribers’ purchased plans

VIAVI NSC-100 Tester with GPON, Ethernet, Wi-Fi and Ookla Speedtest

**Key Features:**
- PON test interface with ONU/ONT emulation
- Ethernet L2/L3 loop back support for Y.1564 & RFC-2544 tests
- High-end Wi-Fi test interface – 3x3 Wi-Fi antenna with 2.4 & 5GHz
- Automated ‘OneCheck’ feature ensures that all necessary and required tests/checks are performed by a tech while on site
- Multiple levels of optional gigabit throughput testing (Ookla® Speedtest® or TrueSpeed RFC-6349) for service evaluation against whatever benchmark is needed

**Application:**
- Service installation, activation & troubleshooting
- Access networks:
  - PON for FTTH & 5G x-haul
  - CATV for DOCSIS 3.1
  - Telco for xDSL & Cfast

VeEx NET-BOX

**Key Features:**
- Low-cost, reliable, high performance FPGA-based alternative to expensive laptops often used for enterprise and speed tests
- Truly scalable with a multi-test port architecture, with four 1000BASE-T ports for up to 4 Gbps full line rate capability and one SFP cage for 1000BASE-X and 2500BASE-X
- Can truly test the limits of verifying Quality of Service (QoS) and assure QoE for the ever-growing high-speed internet service at and beyond 1 Gbps

**Measurements:**
- TCP throughput rate (min, max, and average)
- Transfer file size and duration
- Transfer time ratio
- TCP efficiency %
- Buffer delay %
SPLICE MACHINES

The New VIEW PRO Series

- GPS and network support (real time fleet & cloud management, remote lock function)
- Lower splice loss in cladding alignment
- Longest battery life, 355 cycles, LBT-30
- Built-in workstation in carrying case
- Includes the V11 automatic cleaver

3-YEAR WARRANTY INCLUDED WITH ALL SPLICE MACHINES!

CORE: View8 (Pro)

Key Features:
- V-Groove: Active
- Splice: 7 seconds
- Heating: 13 seconds
- Battery: 200 cycles

Function:
- Web-cloud
- Built-in user guide
- Double tapping

CLAD: View3 (Pro)

Key Features:
- V-Groove: Active
- Splice: 7 seconds
- Heating: 13 seconds
- Battery: 200 cycles

Function:
- Web-cloud
- Built-in user guide
- Double tapping

CORE: View5 (Pro)

Key Features:
- Splice: 7 seconds
- Heating: 13 seconds
- Battery: 200 cycles

Function:
- Web-cloud
- Built-in user guide
- Double tapping

CLAD: M7

Key Features:
- V-Groove: Active
- Splice: 12 seconds
- Heating: 13 seconds
- Battery: 110 cycles

Function:
- Double tapping
- Adjustable strap

RIBBON: View12R (Pro)

Key Features:
- Splice: 15 seconds
- Heating: 20 seconds
- Battery: 220 cycles

Function:
- Web-cloud
- Built-in user guide
- Double tapping

Cleavers

- V11
- V7/V7+

Strippers

- Flat Stripper
- TS-Pro Thermal Stripper
We offer a wide range of Drop Cable in round and flat design, offering greater application flexibility.

Options include:
- Indoor Drop Cable with different rating: LSZH, Riser, Plenum
- Outdoor Drop Cable: Self Supporting (ADSS and Fig8 for short & long span), Duct, Direct buried and Façade
- Indoor/Outdoor Drop Cable: ADSS, Duct, Direct buried

For outside plant, we supply ADSS cable, ribbon cable, armored or non-armored cable, and gel and gel free cable that are compliant with Telcordia GR-20 requirements.

Key Features:
- All dielectric or armored Drop Cable
- Type of fibers: G652D, G657A1 and G657A2
- Tight buffer or semi-tight buffer for easy access to the fiber
- Options available from 1 to 12 fibers

**Indoor**

- OD: 3.8mm
- 900μ Tight Buffered Fiber, Aramid Yarns & HFFR compound

**Indoor & Outdoor**

- OD: 4.3mm
- Round Drop Cable ADSS

- OD: 5mm
- Tight Buffer Fiber, Round Drop Cable ADSS

**Outdoor**

- OD: 8.1 x 4.5mm
- Single-Tube, Gel-Filled Cable 2 F ADSS

- OD: 8.1 x 4.5mm
- Single-Tube, Gel-Filled Cable 4 F ADSS

- OD: 8.1 x 4.5mm
- Single-Tube, Gel-Filled Cable 8 F ADSS

- OD: 10.2 x 4.7 mm
- Single-Tube, Toneable, Gel-Filled Cable 12 F

- OD: 5.5mm
- Stranded Loose Tube, Gel-Filled Construction Cable
We offer Patch Cords & Pigtails in a variety of combinations with or without angle, simplex or duplex.

Key Features:
- Interfaces: SC, LC, FC, ST, MPO
- Outer jacket diameter: 3 mm, 2 mm, 1.6 mm and 900 µm
- Riser, Plenum and LSZH options available
- Variety of colors available
- Operating temperature: up to -40°F for outdoor usage

Connectors & Adapters

Key Features:
- Field Mountable Connector (FMC)
- Time-saving, cost-effective and reliable solution in the field
- Compatible with 250 µm, 900 µm, 2mm, and 3 mm fiber

We offer a variety of Adapters including options for:
- Interfaces: SC, LC, FC, ST, MPO, Hybrid
- Simplex, Duplex, Quad
- Flange or flangeless body

Attenuators

We offer Optical Attenuators in standard interfaces and attenuation values.

Options include:
- Interfaces: SC, LC, FC, ST, SCAPC, LCAPC, FCAPC
- 1 dB to 20 dB
- Operating bandwidth: 1260 nm to 1650 nm

Demarcation Box

Key Features:
- Can be used for outdoor or indoor installation
- 12-count splicing and adapter configuration
- Wall mounted or pole mounted
- Ability to allow cable to enter from several sides including one at the back
- Compatible with G652D fibers
- Customized option with your company’s logo available

Splitters & WDM

We offer Splitters & WDM units in a variety of packaging options, with or without connectors.

Options include:
- Splitters: PLC or FBT, 1vN and 2vN
- WDM: Mux/Demux (CWDM, DWDM)
- Interfaces: LC and SC
- Package size: discrete components, mini box, custom size that can be integrated into cassettes, LGX module
**Fiber Optic Splice Closure**

We offer a wide range of Splice Closures adapted to different types of application including loose tube, ribbon, and micromodule in armored or dielectric configuration.

**Key Features:**
- The small STP-XL features a unique dual chamber design (1-side for feeder & 1-side for drop)
- Small size dimensions: 7.8” wide x 11.8” long x 4.4” high
- Large size dimensions: 7.8” wide x 11.8” long x 5.3” high
- Water & dust protection: IP68
- Up to 144 splices
- Grommet technology
- Fully kitted

**Key Features:**
- Due to its small size, the BPEO Size 0 is ideally suited for use within in all types and sizes of manholes
- Dimensions: 9.4” high x 8.8” wide x 3.1” deep
- Water & dust protection: IP68
- Up to 48 splices
- ECAM technology

**Key Features:**
- This OFDC has a separate area for splicing and patching to drop cables
- Dimensions: 14.5” long x 8.4” wide x 4.6” high
- Water & dust protection: IP68
- Up to 96 splices
- Gel technology for sealing

**CUSTOMER PREMISES**

**Optical Outlet**

**Key Features:**
- Indoor installation
- Splicing and adapter configuration
- Wall mounted
- Ability to allow cable to enter from several sides
- Removable cover
- Compatible with G657 fibers
- Customized option with your company’s logo available
- Adapter mounted inside or at both sides
- 13.8 x 4.5 x 2 cm
- Up to 2 cables input
- Up to 1 SC Adapter

**USTC DESIGNED & MANUFACTURED**
We offer a variety of Drop Line Hardware to cover all of your installation needs.

Cable Clamps

- Clamp for ADSS Cable 4-6mm
- Clamp for ADSS Cable 4-9mm
- Clamp for ADSS Cable 6-9mm
- Clamp for ADSS Cable 8-12mm
- Clamp for ADSS Cable 10-14mm
- Drop Dead-End for ADSS Cable 4.8-6.2 mm
- Drop Clamp for ADSS Cable 3-6mm

Mid Span

- Multi-Drop Span Clamp ¼" Strand Wire
- Midspan Clamp ¼" Strand Wire Up to 2 Dead-End

Home Attachments

- Hook P Wrenchable 6 1/2" Length
- Pigtail Screw for Wood Surface 5x45 mm

Pole Attachments

- Drive Hook 5/16" and 7/16"
CONSUMABLES & CLEANING

Optical Splice Protection Sleeve

Key Features:
- 40, 45, 60 mm length options available
- Various diameters of steel rod available including 0.8 mm, and 1.1 mm

Cable Ties

Key Features:
- Various cable ties available: standard, releasable, double locking, marker, and more
- Material: Nylon 6.6
- Weather-resistant
- UV resistant
- Options with or without stainless steel available
- Tensile strength: 18 lbs. to 350 lbs.
- Various colors available

Electrical PVC Tape

Key Features:
- Weather-resistant and UL listed
- Various tensile strengths available
- Dielectric Strength > 7 kV
- Various colors available

Identification

Tag & Marker

Marker Pen
White Indelible

Cleaning

Dry Cleaning
Fiber Optic Wipes

Fiber Optic Cleaning Dispensing Bottle (200 ml)

Cleaner with Tape

Push Type Cleaner
1.25mm & 2.5 mm sizes available

Fiber Optic Cleaning Swab
TOOLS

FTTH Tools

USTC DESIGNED & MANUFACTURED

CABLE STRIPPING TOOL
Window or longitudinal access

WIRE STRIPPER & CUTTER DEVICE
14-24 AWG

ALL TOOL KITS ARE USTC DESIGNED & MANUFACTURED

CABLE STRIPPING TOOL
ACS: 8-28.6 mm
Adapted to Armored Layer

WIRE STRIPPER & CUTTER DEVICE
20-30 AWG

OPTICAL CABLE STRIPPING TOOL
Circular Cut

OPTICAL FIBER STRIPPING TOOL
20-30 AWG
Diameters of 3 holes: 3mm, 900µm, & 250µm

CABLE STRIPPING TOOL
ACs: 4-10 mm
Adapted to Armored Layer

OPTICAL CABLE STRIPPING TOOL
Messenger Cut

REPLACEMENT BLADE

MINI COPPER TUBE CUTTER
6-28 mm

WIRE STRIPPER & CUTTER DEVICE
20-30 AWG

USTC DESIGNED & MANUFACTURED

Tool Kits

ALL TOOL KITS ARE USTC DESIGNED & MANUFACTURED
### Fish Tape Pulling Systems

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4mm</td>
<td>98.5 ft</td>
</tr>
<tr>
<td>3mm</td>
<td>98.5 ft</td>
</tr>
<tr>
<td>3mm</td>
<td>98.5 ft</td>
</tr>
</tbody>
</table>

**Key Features:**
- Fiber glass or composite available
- Various diameters and lengths available:
  - 3 and 4 mm diameters available
  - Up to 98.5 ft lengths available

### Cable Reel Roller

**Key Features:**
- Steel or Aluminum
- Can handle loads up to 3,300 lbs.
- Designed with collapsible lateral bar in order to increase installation efficiency

### Cable Block Devices

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5mm</td>
<td>197 ft</td>
</tr>
<tr>
<td>7mm</td>
<td>328 ft</td>
</tr>
<tr>
<td>11mm</td>
<td>985 ft</td>
</tr>
</tbody>
</table>

**Key Features:**
- Fiber glass or composite available
- Mounted on robust galvanized steel reel
- Various diameters and lengths available:
  - 4.5 up to 11mm diameters available
  - 196 ft up to 985 ft lengths available

### Pull Tape

**Polyester Pull Tape:**
- High tensile strength: up to 6,000 lbs.
- Width: 6 to 28 mm
- Sequential foot marking
IMPRESSED WITH OUR NUMBERS? THEN USE THIS NUMBER:

1-833-USTC-CORP

Give us a call and we can create a customized solution just for you.

7+ million
miles of fiber distributed to our customers annually across the globe

1+ million
square feet of indoor and outdoor storage capacity across our 13 locations with additional buildout available as needed

55,000+
SKUs of equipment, state-of-the-art tools, and top-quality materials available to our global suppliers

14,000+
customers worldwide including tier 1, 2, and 3 cable operators, telecommunications service providers, rural utility providers, electric cooperatives, and contractors

1,000
nearly 1,000 valued global sourcing and supply partners

400+
employees in the U.S. and 1,200+ across the globe who are All In, working hard every day to ensure customer satisfaction and reliability

ALL IN ONE. ALL FOR YOUR NETWORK.

With 13 locations, we can support your business needs anywhere across the country.

Edison, NJ (3) – USTC Corp Headquarters, Primary Distribution Center, and Production Center
  Dallas, TX – USTC Corp Distribution Center
  Winston-Salem, NC – Walker Corporate Office & Distribution Center
  Reno, NV – Walker Logistics Center
  Tyler, TX – Walker Logistics Center
  Gilbert, OK – Walker Logistics Center
  Collegeville, PA – Comstar Supply Corporate Office & Distribution Center
  Garner, NC – Comstar Supply Logistics Center
  South Bend, IN – Comstar Supply Logistics Center
  Longwood, FL (2) – Multicom Corporate Office, Primary Distribution Center, and Production Center

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