







WE'RE ALL IN FOR THE CONTROL C

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 plugand-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, pigtails, 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.

YOUR GO-TO **TO GET THINGS DONE**

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:







































TEST & MEASUREMENT

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
- Creartabana arada 2 / inab salar tayabaaraan
- 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)



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)

Optical Power Meter (OPM)



USTC DESIGNED & MANUFACTURED



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

Inspection Probe

VIAVI FiberChek™ Probe Wireless Inspection Probe (8-tip kit): Soft Case, Inspection Tips for SC/UPC, SC/APC, LC/UPC, and LC/APC

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

Live Fiber Identifiers

USTC DESIGNED & MANUFACTURED

USTC Corp Live Fiber Identifier

Key Features:

- Traffic direction indicatorTone detection LEDs (270 Hz, 1-2 kHz)
- Tone detection LEDs (270 Hz, 1with 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.

Selective PON Power Meter

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)

Optical Test Kit (Laser Source & OPM)



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
- High-Visibility backlit graphical display with context-sensitive softkey
- 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

Last Mile Fiber Certification



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)

Last Mile Fiber Certification



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

Compact OTDR



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

Through Mode PON OPM



VIAVI OLP-87P XG-PON 1310/1490/1550/1270/1578 nm with Integrated PCM & P5000i – B, G, 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

PON Analyzer + Through Mode PON OPM



VIAVI OLP-88P TruePON Tester with Patch Cord Microscope, 1310/1490/1550 nm

Key Features:

- Through-mode capability for simultaneous measurement and display of downstream and upstream wavelengths-low insertion loss
- Alien/rogue-ONU detection SW option & GPON-ID test SW option
- GPON data analysis:
 - Verify correct ONU/ONT (home modem) activation
 - Verify correct fiber routing/connection between OLT and ONT (serial/port number extraction)
 - Detect rogue ONUs or alien devices
 - Auto setting of pass/fail thresholds in GPON systems with PON-ID
 - In-service Insertion Loss (IL) testing
- Industry standard or customer specific Pass/Fail indication for up and downstream power levels

Application:

 Network activation and troubleshooting for B-PON, E-PON & G-PON networks

Through Mode PON OPM



EXEC DDM-350D Next-Gen DON Dower 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

PON Analyzer + Through Mode PON OPM



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
 - o 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

Home Services Activation



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

Home Services Activation



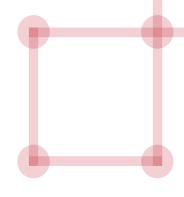
VIAVI NSC-100 Tester with GPON, Ethernet, Wi-Fi and Ookla Speedtest

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:
- o PON for FTTH & 5G x-haul
- CATV for DOCSIS 3.1
- Telco for xDSL & Gfast



Home Services Activation



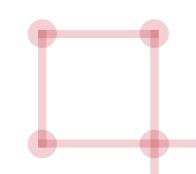
VeEx NET-BOX

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

CORE: View8 (Pro)



Key Features:

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

Function:

- · Web-cloud
- Built-in user guide

NNO

Double tapping

CORE: View5 (Pro)



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

Function:

- · Web-cloud
- · Built-in user guide
- · Double tapping



RIBBON: View12R (Pro)



Key Features:

- Splice: 15 seconds
- · Heating: 20 seconds
- · Battery: 220 cycles

Function:

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

3-YEAR WARRANTY INCLUDED WITH ALL SPLICE MACHINES!

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

CLAD: M7



Key Features:

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

Function:

- · Double tapping
- Adjustable strap



Cleavers



V7/V7+



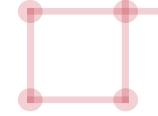
Strippers



TS-Pro Thermal Stripper



DROP CABLE



Stranded Loose Tube, Gel-Filled **Construction Cable**

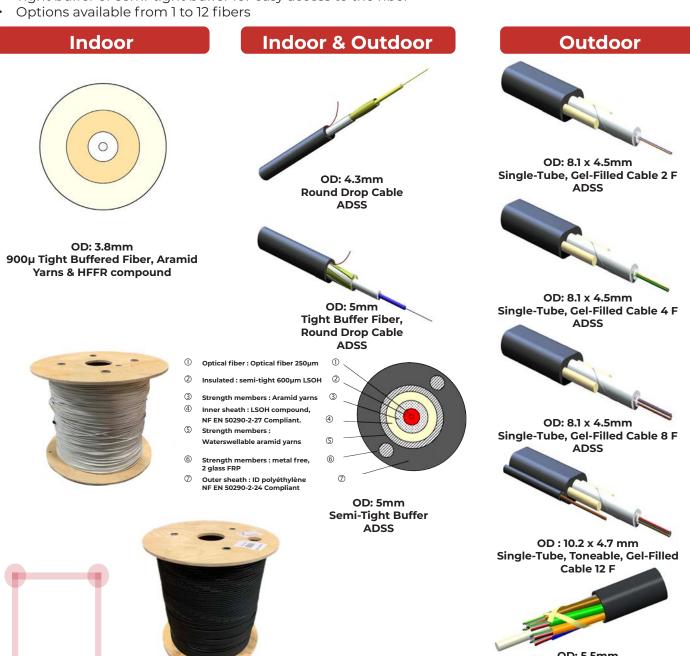
We offer a wide range of Drop Cable in round and flat design, offering greater application flexibility. Options include:

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



OPTICAL CONNECTIVITY

Patch Cords & Pigtails



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



USTC DESIGNED & MANUFACTURED

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



USTC DESIGNED & MANUFACTURED



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



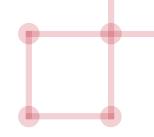


We offer Splitters & WDM units in a variety of packaging options, with or without connectors.

Options include:

- Splitters: PLC or FBT, IvN 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

DROP CONNECTIVITY



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.



USTC DESIGNED



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"
- 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











DROP HARDWARE

5.

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
½" Strand Wire



Midspan Clamp 1/4" Strand Wire Up to 2 Dead-End

Home Attachments



Hook P Wrenchable 6 1/2" Length

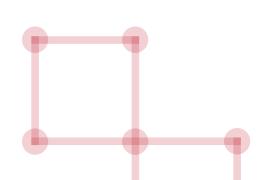


Pigtail Screw for Wood Surface 5x45 mm

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

USTC DESIGNED & MANUFACTURED

Cable Ties



USTC DESIGNED &

MANUFACTURED

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

USTC DESIGNED & MANUFACTURED

Key Features:

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



Identification



Marker Pen White Indelible



Tag & Marker



Cleaning



Dry Cleaning Fiber Optic Wipes



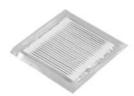
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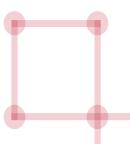


Cleaner with Tape





Fiber Optic Cleaning Swab





FTTH Tools









WIRE STRIPPER & CUTTER DEVICE 20-30 AWG





OPTICAL CABLE STRIPPING TOOL

Circular Cut

OPTICAL FIBER STRIPPING TOOL 20-30 AWG



OPTICAL CABLE STRIPPING TOOL

Messenger Cut







CABLE STRIPPING TOOL ACS-2: 4-10 mm Adapted to Armored Layer



MINI COPPER TUBE CUTTER

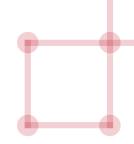
6-28 mm



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



INSTALLATION & CONSTRUCTION TOOLS



Fish Tape Pulling Systems







4mm & 98.5 ft

3mm & 98.5 ft

3mm & 98.5 ft

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

USTC DESIGNED & MANUFACTURED







4.5mm & 197 ft

7mm & 328 ft

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

Cable Reel Roller





USTC DESIGNED & MANUFACTURED

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



A variety of options includes:

- Cable block with easy clip design
- · Cable block with fixed or movable hook

Pull Tape



Polyester Pull Tape:

- · High tensile strength: up to 6,000 lbs.
- Width: 6 to 28 mm
- · Sequential foot marking









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 our global suppliers

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.

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

ustc-corp.com