Table of Contents

Parts List ........................................................................................................................................ 3
Recommended Tools ..................................................................................................................... 4
Working in the YourX Terminal .................................................................................................... 6
  Opening the Cover ....................................................................................................................... 6
  Drop Terminal Configurations .................................................................................................. 7
  Port Designations ...................................................................................................................... 8
  MPO Wiring Diagrams .............................................................................................................. 9
Optical Components .................................................................................................................. 13
  Splitter Configurations ........................................................................................................... 13
Buried Deployment Methods ...................................................................................................... 15
Mounting Application .................................................................................................................. 15
  Pedestal Mounting .................................................................................................................. 15
Vault Installation ....................................................................................................................... 16
  Site Preparation ....................................................................................................................... 16
  Pole/Wall Mounting ............................................................................................................... 18
  Cover Mount Bracket ............................................................................................................. 19
  Strand Mount ........................................................................................................................ 20
  Preparing Terminal Ports ....................................................................................................... 21
  Installing FlexPorts in the Field .............................................................................................. 21
  Plugs ......................................................................................................................................... 22
  Preparing Microduct to Connect to Terminal ......................................................................... 22
Installation of Fiber .................................................................................................................... 23
Slack Storage ................................................................................................................................ 27
  Using a GasBlock Coupler (greater than 10 feet) ................................................................... 27
  Using a Slack Storage Reel (less than 10 feet) ....................................................................... 28
Closing the YOURx Terminal ....................................................................................................... 28
Connector Cleaning Procedure .................................................................................................. 29
Standard Warranty ...................................................................................................................... 32
Proprietary Notice ...................................................................................................................... 33
Technical Support ...................................................................................................................... 33
Parts List

1. Base (FlexPort Sealing Tabs marked with a silver “x” inside the terminal)
2. Cover
3. Gasket
4. Clips (8 installed on base)
5. FlexCartridge
6. FlexPort ½ (half) Cartridge
7. Plugs (available 10mm and 14mm)
8. Designation Card
9. FlexCartridge Cover
10. Base Mounting Bracket*
11. Cover Mounting Bracket*
12. Aerial Strand Bracket*

*Ordered Separately (not included with terminal)
### Recommended Tools

<table>
<thead>
<tr>
<th>Find No.</th>
<th>Tool</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Rotary Cutter</td>
<td>![Rotary Cutter Image]</td>
</tr>
<tr>
<td>002</td>
<td>Deburring Tool</td>
<td>![Deburring Tool Image]</td>
</tr>
<tr>
<td>003</td>
<td>Pliers</td>
<td>![Pliers Image]</td>
</tr>
<tr>
<td>004</td>
<td>Optical End Face Cleaning kit</td>
<td>![Optical End Face Cleaning kit Image]</td>
</tr>
</tbody>
</table>
# DROP CABLE OPTIONS

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Cable Jacket</th>
<th>UV</th>
<th>Temperature</th>
<th>FieldShield Connector</th>
<th>Jacket Color</th>
<th>Can be stapled</th>
<th>Best Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>FieldShield FLATdrop</td>
<td>Outdoor</td>
<td>Yes</td>
<td>-40° to 176°F</td>
<td>No</td>
<td>Black</td>
<td>Yes</td>
<td>For use when fast installation and low up-front cost is most desired feature.</td>
</tr>
<tr>
<td>FieldShield D-ROP</td>
<td>Outdoor</td>
<td>Yes</td>
<td>-40° to 176°F</td>
<td>Yes</td>
<td>Black/Orange</td>
<td>Yes</td>
<td>For use when a single pass and restorable solution at a competitive price is ideal.</td>
</tr>
<tr>
<td>FieldShield FLEXdrop</td>
<td>Indoor (Plenum)/Outdoor</td>
<td>Yes</td>
<td>-40° to 176°F</td>
<td>Yes</td>
<td>Black/White</td>
<td>Yes</td>
<td>For use when a premium product that has maximum workability, flexibility and restorability is desired.</td>
</tr>
<tr>
<td>FieldShield (Classic)</td>
<td>Outdoor in Duct</td>
<td>Yes in Duct</td>
<td>-40° to 176°F</td>
<td>Yes</td>
<td>Black</td>
<td>Yes</td>
<td>For use when the distance from the access point to the SFU/MDU is longer than normal and a more rigid solution is required to maintain restorability for drops longer than 300 feet.</td>
</tr>
<tr>
<td>FieldShield StrongFiber</td>
<td>Indoor/Outdoor in Duct</td>
<td>Yes in Duct</td>
<td>-40° to 176°F</td>
<td>Yes</td>
<td>Black</td>
<td>Yes in Duct</td>
<td>For use when a reusable pathway is needed and maximum slack storage is desirable.</td>
</tr>
</tbody>
</table>
Working in the YourX Terminal

This instruction manual describes the recommended installation of the YourX multi-port terminal utilizing various fiber drop applications.

Opening the Cover

Pull the 8 tabs down from cover toward base. (Figure 1)

The lid may be difficult to remove due to gasket sealing.

![Figure 1](image)

**DO NOT** use a sharp item (snips, screwdriver, etc.) to remove. Utilize a stiff flat piece of plastic, like a wedge, to help break the seal. Using the sharp items may damage the gasket.
Drop Terminal Configurations

- **“Drop only”** where there is a choice of one 14mm or one 10M port used for feed (MPO input) and designated number of ports for distribution (Figure 1).
- **“Drop and Express”** configured terminals will utilize both “A and B” ports for feed (MPO input) to terminal with expressing (MPO output) the un-used fibers to the next terminal in line (Figure 2).

### Cable Feed/Express Port Types

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14MM</td>
<td>Microduct with pushable MPO</td>
</tr>
<tr>
<td>10MM</td>
<td>FlatMPO</td>
</tr>
<tr>
<td>10MM</td>
<td>Pushable 1F for Splitter feed</td>
</tr>
</tbody>
</table>

**NOTE:** If terminal is being utilized with splitters, the feed may be fed through 10MM Port of choice for termination

**NOTE:** These are “standard” configurations, your terminal may be unique to your environment

**REMEMBER:** SC/LC/MPO ports on FlexCartridge are opposite of labeling in base to minimize fiber crossover
Port Designations

**TOP VIEW**

**BOTTOM VIEW**

**Ports A and B:** 14MM
**Ports 1 thru 16:** 10 MM Microduct

**NOTE:** Pushable MPO’s enter through the 14MM ports. When a third MPO is needed, you will utilize a “FLATMPO” cable with a hardened connector and enter through a 10MM port.

**FlexCartridge Designations**

**Test record found behind removeable cover**

*Port counts differ, depending on terminal designation*

**MPO Ports**
- A - Fiber “IN” (feed)
- B - Fiber “OUT” (express)

**Distribution Ports 1-12**
- SC, LC or MPO connectors
**MPO Wiring Diagrams**

**MPO (Labeled “A” and/or “B”) fiber designation**

Configurations consist of “Drop Only” (Figure 1) terminals as well as “Drop and Express” terminals utilizing pushable single fiber, MPO or FlatMPO cables.

Drop Only Terminals will utilize 1 (one) 14MM or 1 (one) 10MM port, based on cable feed choice. When using FlatMPO, the 10MM port located left of “A” 14MM, is recommended.

Drop and Express” will utilize the “B” port for expressing fibers via 14mm duct or the 10MM port to the right of “B”.

*Example of a 4-port Drop only terminal with a 14MM feed FlexPort*

Each FLEXport installed from the factory are marked with silver X.
MPO Inbound & DROP

YourX Drop 4 Only
FSTX-04C-51Z-ZZZ-01

MPO Inbound & Drop 4

Outside
Bottom View

Inside
Top View

YourX Drop 6 Only
FSTX-06C-51Z-ZZA-01

MPO Inbound & Drop 6

Outside
Bottom View

Inside
Top View
MPO Inbound & DROP
(continued)

NOTE: These are “standard” configurations. Your terminal may be unique to your application.

REMEMBER: SC/APC Flexports, are labeled opposite of FLEXport on terminal base
MPO Inbound & outbound/express with DROP

NOTE: These are “standard” configurations. Your terminal may be unique to your application.
Optical Components

Splitter Configurations

YourX 1X2 SC/APC Input and Output
FSTX-02C-CZZ-EZZ

YourX 1X4 SC/APC Input and Output
FSTX-04C-CZZ-8ZZ

SC/APC Inbound 1X2 & Drop 2
Outside Bottom View
Inside Top View

SC/APC Inbound 1X4 & Drop 4
Outside Bottom View
Inside Top View
**Mounting Application**

The YourX terminal can be mounted for various applications. These directions are for basic installation in the outside plant. Your application may vary from our basic design installation method.

**Pedestal Mounting**

**NOTE:** The YourX terminal is capable of fitting into as small as an 8 X 8 pedestal but due to room restrictions we recommend a minimum of 10 X 10.
Vault Installation

Site Preparation
Ensure that national – local electrical and building codes, OSHA and company safety work rules are observed and provisions made for street flags, barricades and cones. Secure permits as required by city and company.

WARNING: Buried Telecommunications Cables. Make sure to call 811 a few days before digging. Calling 811 will route to the local one-call center and ensure that utilities in the area of installation will be located and marked.

Step 1: Excavation
Plan excavation approximately twelve to sixteen inches (12" - 16") longer/wider and six to eight inches (6" - 8") deeper than the actual dimensions of the vault being installed. (Figure 1)

Step 2: Drainage Base
Pour gravel base to a depth of three to five inches at (3” - 5”) the base of the excavation. (Figure 2)

Note: Base material should be crushed rock 3/4” and smaller, and not “river rock” or “round stone.”

Step 3: Install Vault
Guide microduct through opening and lower vault into excavation on top of base material and adjust height to grade. (Figure 3)
Step 4: Backfill
Use soil to backfill between the vault and the excavation wall, tamping down to compact soil. (Figure 4)

Step 5: Route Duct
Determine desired length of all ducts entering the terminal. (Figure 5)

Note: Multiple ducts should be bound together with vinyl tape for easier manipulation.

Step 6: Prepare Duct
Use a rotary cutting tool to all ducts to equal length. Strip back outer sheath and tone wire six inches (6”) or amount needed to terminate to bond/locating bar. Use de-burring tool to chamfer end of duct. (Figure 6)

Step 7: Prepare Ports
Remove tabs from desired terminal FlexPorts. De-burr FlexPort with snips, knife or de-burring tool to remove rough edges. MUST de-burr entirely for FlatMPO bullet to fit through port. (Figure 7)

Note: Tab removal may require pliers

Step 8: Seat Duct
Feed pull string from the underside of the terminal through port and seat duct fully into the coupler. (Figure 8)

Step 9: Secure Pull String
Tie off pull string to FlexCartridge to prevent it from migrating back into the microduct.

Note: Ports loaded with flexports are marked in silver.
Pole/Wall Mounting

Utilizing the horeshoe bracket, mount bracket to surface (hardware not included) mount YourX terminal to bracket using the provided hardware. (3 mounting locations – 4 provided screws) (Figure 1)

Microduct will be cut to desired length for proper storage, following local practice.

Be sure to adhere to bend radius of microduct and flat drop.

FOLLOW DIRECTIONS FOR:
Installing Microduct and Flat Drop into Terminal
Installing fiber and managing inside terminal
I.B.Y.C

Terminal base is mounted to bracket utilizing provided hardware.

Figure 1
(4) mounting screws provided
Cover Mount Bracket

Two piece mounting bracket. The bracket is attached to the top of the cover where it can be removed from mounting location. Allowing technician to move terminal along with microduct for mounting application needs.

Using the 2 screws provided, attach base (Figure 2) to cover of YourX terminal (Figure 3)

Mount the bracket (Figure 1) to the desired location (hardware not included).

Place forks of mounting bracket under wing nut and finger tighten. (Figure 4)
Strand Mount

1. Attach lanyard using provided screw, to location identified in (Figure 1).
2. Attach opposite end to location in (Figure 2).
3. Using provided hardware attach base to bracket like shown (Figure 3).
4. Attach to strand using provided bug nuts. Facing FlexPorts toward serving pole.
5. Dress duct from pole attachment to terminal, cut duct to length.

6. FOLLOW DIRECTIONS FOR:
   1. Installing Duct Into Terminal
   2. Installing fiber Into Terminal
   3. I.B.Y.C! (Inspect Before You Connect!)
Preparing Terminal Ports

When needed for configurability, FlexPorts can be added in the field to allow the terminal to accept additional fiber drops, microduct or other options, when desired for a change needed.

**STEP 1:** Locate and using pliers, remove tab associated to the 10mm or 14mm port that you will use. ([Figure 1](#))

**STEP 2:** De-Burr (using a de-burring tool/snips/knife) the port hole for a smooth transition without damaging the fiber as it enters the port ([Figure 2](#)) MUST BE FULLY DE-BURRED FOR Flat MPO!!

Installing FlexPorts in the Field

**BE AWARE!** FlexPorts are factory installed on units that come from the factory based on the number of feed and distribution specified at time of order. Following the diagram, place parts as shown below. ([Figure 3](#))

- On bottom of terminal, place O-Ring into desired port hole
- IF creating a 14mm, place “Green Spacer” on top of O-Ring
- Next, place “Press-In” with teeth closest to you, into hole. Tap in so that it sits flush.
- Install the “Clip” into the “Press-Ins”

**NOTE:** Clips should be loose, not springy. If springy, re-adjust the “O-Ring”
Plugs

If a technician removes the wrong tab and exposes a port WITHOUT a “FlexPort” fully seat a plug (Figure 1) to plug port for a water and air-tight terminal (Figure 2).

**Note:** 1-10mm included with terminal
10MM: 018664
14MM: 018665

---

**WARNING**: Do NOT Leave terminal ports open. Always use a 10mm or 14 mm plug.

---

Preparing Microduct to Connect to Terminal

STEP 1: Feed “pull string” through FlexPort. (Figure 3) If not pulling fiber immediately, tie off to FlexCartridge.

STEP 2: Using a rotary cutter to prevent cutting pull string, make a flush cut at desired length (Figure 4) and De-Burr microduct (Figure 5).

NOTE: When using toneable microduct, remove outer sheath and tone wire back approximatel 4”-6” (follow local standard as to storing tone wire) (Figure 6).
Installation of Fiber

When entering the YOURx-Terminal DO NOT assemble Connector Outer Housing until fiber has been passed through the FlexPort. Fully connectorized fiber will not pass through FlexPort.

FieldShield FLEXdrop or FieldShield

**Step 1: Seat Microduct**
Once Pull String is through the FlexPort, seat Microduct into FlexPort. (Figure 1).

**Step 2: Pull Fiber**
Pull preconnectorized fiber (unassembled) into open YOURx-Terminal port. Remove pull string and prepare connector for assembly. (Figure 2).

**Step 3: Assemble Connector**
Follow assembly instructions for the selected connector. (Figure 3).

**INSPECT BEFORE YOU CONNECT!**

CLEAN CONNECTOR

DIRTY CONNECTOR

SEE RECOMMENDED CLEANING PROCEDURES SECTION

**Step 4: Connect Fiber into FlexCartridge**
Once connector has been inspected/cleaned, route fiber through fiber management located in the “handle” of the FlexCartridge. Make the connection. (Figure 4).
**FieldShield FLATdrop**

**Step 1: Push Fiber**
Push preconnectorized fiber (unassembled) into open YOURx-Terminal port. Remove pull string and prepare connector for assembly. (Figure 1).

![Figure 1](image1)

**Step 2: Seat FlexConnector**
Once fiber is through, seat FlexConnector into FlexPort. (Figure 2).

![Figure 2](image2)

**INSPECT BEFORE YOU CONNECT!**

![CLEAN CONNECTOR](image3)
![DIRTY CONNECTOR](image4)

SEE RECOMMENDED CLEANING PROCEDURES SECTION

**Step 3: Assemble Connector**
Follow assembly instructions for the selected connector. (Figure 3).

![Figure 3](image5)

**Step 4: Connect Fiber into FlexCartridge**
Once connector has been inspected/cleaned, route fiber through fiber management located in the “handle” of the FlexCartridge. Make the connection. (Figure 4).

![Figure 4](image6)
FieldShield D-ROP

Step 1: Push Fiber
Push preconnectorized fiber (unassembled) into open YOURx-Terminal port. Prepare connector for assembly. (Figure 1).

Step 2: Seat FlexConnector
Once fiber is through, seat FlexConnector into FlexPort. (Figure 2).

INSPECT BEFORE YOU CONNECT!
CLEAN CONNECTOR
DIRTY CONNECTOR
SEE RECOMMENDED CLEANING PROCEDURES SECTION

Step 3: Assemble Connector
Follow assembly instructions for the selected connector. (Figure 3).

Step 4: Connect Fiber into FlexCartridge
Once connector has been inspected/cleaned, route fiber through fiber management located in the “handle” of the FlexCartridge. Make the connection. (Figure 4).
FieldShield StrongFiber

Step 1: Seat Microduct
Once Pull String is through the FlexPort, seat Microduct into FlexPort. (Figure 1).

Step 2: Pull Fiber
Pull preconnectorized fiber (unassembled) into open YOURx-Terminal port. Remove pull string and prepare connector for assembly. (Figure 2).

Step 3: Assemble Connector
Follow assembly instructions for the selected connector. (Figure 3).

Step 4: Connect Fiber into FlexCartridge
Once connector has been inspected/cleaned, route fiber through fiber management located in the “handle” of the FlexCartridge. Make the connection. (Figure 4).

INSPECT BEFORE YOU CONNECT!
CLEAN CONNECTOR
DIRTY CONNECTOR
SEE RECOMMENDED CLEANING PROCEDURES SECTION
Slack Storage

When slack storage is needed while utilizing microduct and pushable fiber between 2 terminals (Feed/Express fibers) two options are available, depending on the length of slack being stored:

**Option 1**
A GasBlock can be used to store slack of fiber outside of terminal (in vault or on pole).

1. Trim microduct to a manageable length within vault.
2. Feed fiber through 1 (one) GasBlock (10MM or 14MM, dependant on microduct size), place onto trimmed microduct and tighten yellow cap to create seal around fiber (should not slide)
3. Insert 1 (one) piece of provided black microduct into desired FlexPort
4. Insert GasBlock onto opposite end of black microduct.
5. Loosen Yellow cap on GasBlock to allow fiber to push through GasBlock and microduct into terminal
6. Once fiber is into terminal, complete connector installation, I.B.Y.C. and connect.
7. Tighten yellow cap down and around to activate plug inside GasBlock coupler for an air and water tight seal.
8. Coil up slack using Velcro or tape for storage.

**Option 2**
Storage within Terminal

NOT FOR “DROP” SLACK STORAGE
ONLY for Feed/Express cables between 2 (two) terminals
Using a Slack Storage Reel (less than 10 feet)

The slack can be stored on an OPTIONAL slack storage wheel (Figure 1) or by hand coiling and Velcro/tape. After pulling fiber into terminal:

**Step 1:** Coil slack around wheel (Figure 2) and slide into slot either side of FlexCartridge (Figure 3).

**Step 2:** Install connector housing.

**Step 3:** I.B.Y.C.

**Step 4:** Make Connection.

Closing the YOURx Terminal

**Step 1:** Ensure gasket is free of damage/debris (Figure 1).

**Step 2:** Similar to closing a splice case or tightening lug nuts on a tire, work your way around in a “star-like pattern”, snapping tabs to assure an air-tight, water-tight terminal.
Connector Cleaning Procedure

Whether factory terminated or field spliced, clean connectors are essential for proper system operation. Even the smallest dust particle can cause transmission problems, so for optimal network performance, inspect and if necessary, clean all connectors and adapters prior to mating.

I.T.C…Inspect Then Connect!

ALWAYS inspect the connector first thing with a clean fiber scope inspect the pair. Three types of contamination require different cleaning techniques. The use of Chemtronics end face and bulkhead cleaning products and techniques ensures a clean end face, no matter the type of contamination.

These are Clearfield recommended products/application. Use the product you feel will complete your cleaning procedures. Create a “best practice” for your company and follow those procedures.

**NOTE: It is NOT recommended to use IPA to clean the end-face.

Cleaning the end-face…but not just the end-face

• Place one wiping paper on QbE-2 FiberSafe™ Cleaning Platen. Figure 1

• Apply small amount of precision cleaner (about 1” in diameter) with Electro-Wash MX pen on to one end of the wipe. Figure 2

• Hold end face 90 degree. Adjust for APC connection by slightly tilting the container or end face. Angle is correct when no drag is left on the end face. Figure 3

• Draw end face from wet to dry part of the wipe 3 times. Use just enough pressure to ensure complete contact between end face and the wipe.

DO NOT retrace previous step.
• **CLEAN THE FERRULE**... Lightly moisten the fiber optic swab (2.5mm/38542F or 1.25mm/38040) by spotting a small amount (about 1") of Electro-Wash PX or Electro-Wash MX pen onto the QBE-2. Hold the swab, 1 side down to the wetted area and hold for a count of 1-2-3-4-5. Figure 4

• Insert swab into side of ferrule, wet side to the ceramic ferrule and circle around 2-3 times and remove. Turn swab to dry side and repeat. Figure 5

**Cleaning the mate through a bulkhead adapter AND the adapter itself!**

• Lightly moisten the fiber optic swab (2.5mm/38542F or 1.25mm/38040) by spotting a small amount (about 1") of Electro-Wash PX or Electro-Wash MX pen onto the QBE-2. Hold the tip of the swab onto the wetted area and hold for a count of 1-2-3-4-5.

• Insert the swab into the adapter to the connector, press lightly against the connector, twist 2-3 times, remove and discard.

• Dry with a second dry swab.

• Inspect (re-clean if necessary) and test for signal strength.

• Use additional swabs to clean inside the actual adapter. Moisten swab, like above, insert through hole and remove while twisting. Figure 6
Cleaning an MPO/MTP Connector

Female Connector

- Place one wiping paper on QbE-2 FiberSafe™ Cleaning Platen and apply small amount of precision cleaner (about 1” in diameter) with Electro-Wash MX pen on to one end of the wipe. **Figure 1**

- Hold end face 90 degree. Adjust for APC connection by slightly tilting the container or end face. Angle is correct when no drag is left on the end face. **Figure 2**

Male Connector

- Lightly moisten the fiber optic swab (CC505F) like above, moistening 1 side.

- Place swab, wet side down at one end of connector end-face and draw across in a diagonal sweep (ie: from fiber 1 up and across to fiber 12). Turn swab over to dry and draw back from fiber 12 to fiber 1. **Figure 3**

BEFORE cleaning any connector...be sure you know what type of contaminant you are cleaning...dry? Fluidic?...All the available products are good, it's the process that you need to be aware of. Using a dry cleaning method to clean “dirt” can lead to scratching of the end-face. Learn the process of cleaning properly!
Standard Warranty

Clearfield warrants to the original purchaser of the Product sold hereunder is free from defects in material and workmanship under normal use and service, subject to exceptions stated herein. Product purchased is warranted as follows: Clearfield designed and branded Products are warranted for five (5) years: Products manufactured by Clearfield to customer prints and/or specifications are warranted for one (1) year; and any Product Clearfield acquires from or through a third-party manufacturer or distributor and resells to Customer as the original customer will carry the manufacturer’s pass-through warranty, if any. In all cases, the warranty period commences on the date of shipment to the original purchaser.

Warranty Claim Procedure

If any Product purchased from Clearfield is found defective under the above warranty, the following basic procedure must be followed:

1. Customer must contact Clearfield and obtain a Return Materials Authorization
2. Following authorization, the Customer ships the product-freight collect-to Clearfield’s manufacturing facility
3. Clearfield shall repair or replace the defective Product at its sole option and discretion, and return the repaired or replacement Product to Customer’s site, freight prepaid

Note: If the Product is not found to be defective by Clearfield, the product will be returned to the Customer and the customer billed for freight in both directions.

Limitations of Warranty

Correction of defects by repair or replacement, at the option of Clearfield Inc, shall constitute the exclusive sole remedy for a breach of this limited warranty. Clearfield shall not be liable under any circumstances for any special, consequential, incidental, punitive, or exemplary damages arising out of or in any way connected with the product or with agreement to sell product to buyer, including, but not limited to damages for lost profits, loss of use, or for any damages or sums paid by buyer to third parties. The foregoing limitation of liability shall apply whether the claim is based upon principles of contract, warranty, negligence or other tort, breach of statutory duty, principles of indemnity or contribution, the failure of any limited or exclusive remedy to achieve its essential purpose, or otherwise.

Clearfield will not be responsible for any labor or materials costs associated with installation or incorporation of Clearfield products at customer sites, including any costs of alteration, replacement or defective product, or any field repairs.

Other Limitations

1. Clearfield assumes no warranty liability regarding defects caused by:
2. Customer’s modification of Product, excepting installation activities described in Clearfield documentation
3. Customer re-packaging of Product for shipment to third parties or destinations other than those originally shipped to by Clearfield, or any defects suffered during shipping where the Product has been re-packaged
4. Customer’s installation or maintenance, excepting activities described in and performed in accordance with Clearfield documentation
5. Customer’s improper or negligent use or application of Product
6. Other causes external to the Product, including but not limited to accidents, catastrophe, acts of God, government action, war, riot, strikes, civil commotion, sovereign conduct, or the acts or conduct of any person or persons not party to or associated with Clearfield
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However, no guarantee is given or implied that the document is error free or that it is accurate with regard to any specification.

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Clearfield, Inc. can be contacted for any issues that arise with the supplied product.

If you need to return the supplied product, you must contact the Clearfield, Inc. Customer Service Department to request a Returned Materials Authorization (RMA) number.

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