

FieldSmart® Fiber Distribution Point (FDP) Splice Only Pedestal

Installation Manual



FieldSmart® Fiber Distribution Point (FDP) Splice Only Pedestal *Installation Manual*



Table of Contents	
Application	3
Description	3
Technical Specifications	3
Components	4
Pedestal Access	6
Cable Preparation & Installation	7
Grounding	9
Fiber Splicing	9
Closing the Pedestal	12
Standard Warranty	13
Proprietary Notice	14
Technical Support	14



FieldSmart® Fiber Distribution Point (FDP) Splice Only Pedestal

Installation Manual

Application

The FieldSmart FDP Splice Only Pedestal provides splice or interconnect connectivity at the access point for the last mile drop. The FieldSmart FDP Splice Only Pedestal incorporates field-tested slack management and fiber splice trays to provide a craft-friendly splice only access solution. The splice only pedestal can be configured to support the specific drop cable, multi-fiber and ring cut requirements. The Clearfield® designed back plane makes it possible for the bulkheads to integrate into industry standard pedestals.

Description

The FieldSmart FDP Pedestal is a value added version of an Emerson BD5 distribution pedestal. This style pedestal is a round-cornered, square-design telephone distribution pedestal accepted for use by the RDUP (formerly RUS). The pedestal has been modified to accommodate the use of fiber optic distribution and drop splices.

This pedestal is designed to accommodate outside plant cables with a loose tube/buffer tube construction. It can handle both armored and non-armored cables. If cables are to be installed in a ring cut/mid-span opening configuration, then only cables capable of passing the RDUP mid-span criteria of the PE-91 specification are allowed.

Included in this pedestal are: a splice tray bracket, one splice tray, a dielectric wrap around shield, radius limiting spools, Velcro style cable management, cable securing zip ties and a shield isolation bonding/grounding bracket assembly.



Technical Specifications

FieldSmart Splice Only Pedestal	Metallic Emerson BD5	Non-metallic ProFORM 12	Non-metallic Pencil 10 x 10
Dimension	43.25" H x 10.5" W x 10.5" D	45" H x 10.5" W x 14.5" D	31.4" H x 13" W x 13" D
Cover Height	31.25"	30"	20"
Base Height (Buried)	12"	15"	11.4"
Material	Galvanized steel	High performance thermo-plastic	HDPE/LDPE
Density	Up to 384 splices		Up to 144 Splices
Number of Splice Trays	Up to 16		Up to 6
Splice Capacity	24 splices in each splice tray		
Splice Tray Dimensions	10 mm H x 163 mm W x 126 mm D		

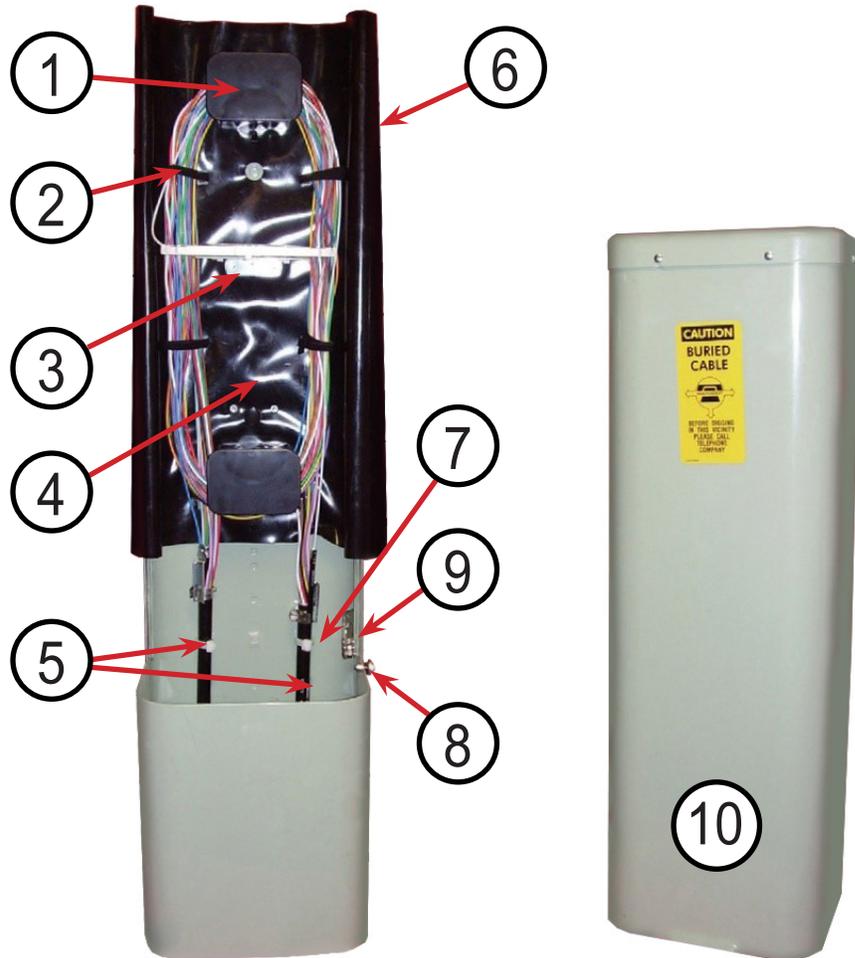
FieldSmart® Fiber Distribution Point (FDP) Splice Only Pedestal

Installation Manual



Components

Metallic Emerson BD5



1. Radius limiting spool
2. Velcro cable management
3. Splice tray
4. Secondary splice tray holder mounting location
5. Distribution and drop cables
6. Vinyl dust /UV shield
7. Zip Tie cable management
8. Security screw
9. Grounding/Bonding Plate
10. Outside cover



FieldSmart® Fiber Distribution Point (FDP) Splice Only Pedestal *Installation Manual*

Non-metallic Pencil 10 x 10



1. Radius limiting spool
2. Velcro cable management
3. Splice tray
4. Outside cover
5. Security screw

FieldSmart® Fiber Distribution Point (FDP) Splice Only Pedestal Installation Manual



Pedestal Access

Metallic Emerson BD5

1. The interior of the pedestal can be accessed by loosening the security screw on the right hand side of the pedestal using a 7/16" thin wall socket or a telecommunications industry "can wrench".
2. Then, by supporting the top of the cover and pulling out and up on the handle, the outer cover of the pedestal can be removed to provide access to the interior.



Non-metallic Pencil 10 x 10

1. The interior of the pedestal can be accessed by turning the security screw on the pedestal using a 7/16" thin wall socket or a telecommunications industry "can wrench".
2. The cover can then be lifted away.





FieldSmart[®] Fiber Distribution Point (FDP) Splice Only Pedestal *Installation Manual*

Cable Preparation & Installation

OSP distribution cables that are entering or exiting the pedestal can be prepped in either a ring cut/mid-span opening fashion or at the end of the cable.



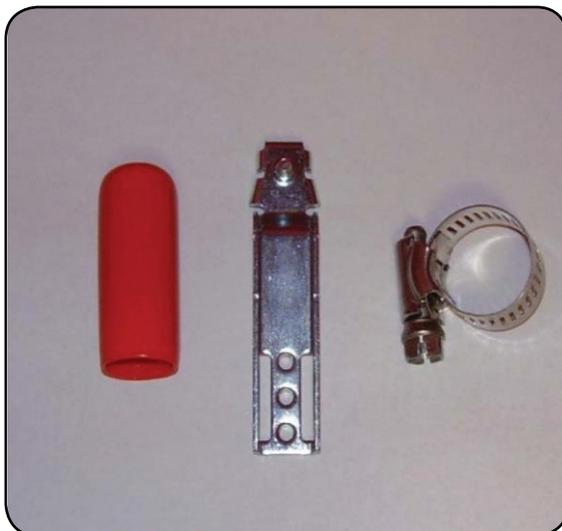
Ring cut/Mid-span opening



End of the cable

The pedestal is designed to hold more than 20 feet of buffer tube from a 144 OSP cable, but most manufacturers recommend not exposing more than 20 feet in an OSP environment. This rule is especially true for ring cut applications (see RDUP PE91).

In either cable prep method, please verify with your cable manufacturer to see if a central strength member clamp (3M 2172 or equivalent) must be installed to secure the central strength member, in order to maintain the cable warranty.



3M 2172



Cable clamp installed

FieldSmart® Fiber Distribution Point (FDP) Splice Only Pedestal Installation Manual



If a shielded cable is to be used and grounded in this application, then a bonding clamp (3M 4460-D or equivalent) shall be attached in addition to the strength member clamp.

Cables to be installed can be secured to the back plane of the pedestal using the zip tie mounts found at the bottom of the pedestal.



3M 4460-D Bonding clamp installed



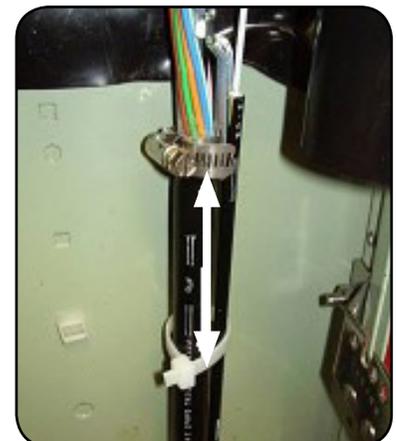
Zip tie locations

When attaching the cables to the back plate using zip ties, it is very important to not fully tighten the zip ties around the cable. Each zip tie should allow at least 1/8" of clearance on all sides. This is important as the cable will need to piston or freely move inside the zip tie independently from the pedestal in the case of pedestal shifting. Be sure to leave at least 4 - 6 inches of cable from the zip tie to the strength member tie-off.

Note: A drop cable is also installed in this picture.



The excess buffer tube should then be routed loosely around the radius limiters provided and then secured loosely with the Velcro management that is installed in the pedestal.





FieldSmart® Fiber Distribution Point (FDP) Splice Only Pedestal *Installation Manual*

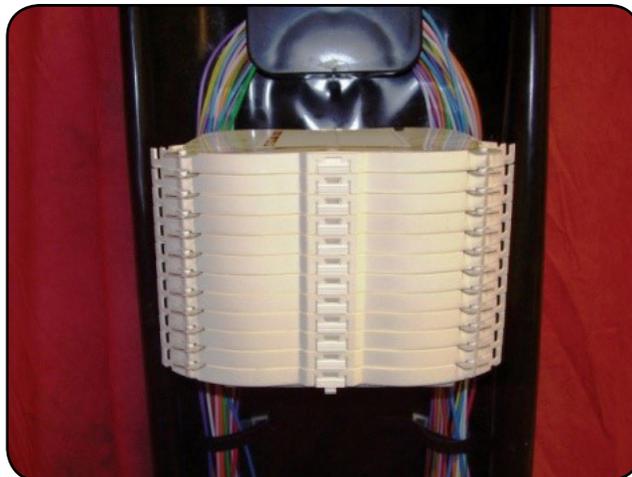
Grounding

Each pedestal comes with a pre-installed grounding and bonding plate.



Fiber Splicing

1. The pedestal is capable of holding up to 144 splices by adding up to eleven 12 fiber trays (part number 004834), one at a time to the included bracket.



Note: *If more than 6 trays are used, you will not be able to hinge the entire stack to access lower splices. Although the bracket will accommodate 12 trays, Clearfield recommends only using 6 trays for 72 splices. Trays can be added by sliding the new tray onto the hinge pins and then folding it down to snap the tray in place.*

FieldSmart® Fiber Distribution Point (FDP) Splice Only Pedestal Installation Manual



Align the pins and insert into position

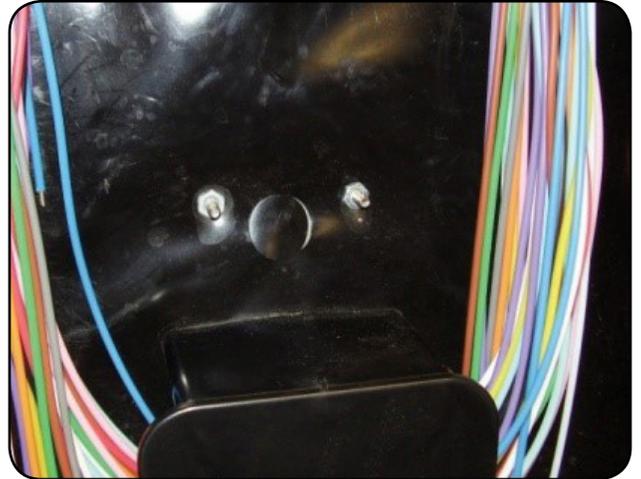


Fold the tray down and snap in place

2. Additional capacity (up to 12 more trays) can be added to the pedestal by adding a second splice tray bracket (part number 005622) to the back wall.



3. The bracket is installed using the pre-installed screws from the back plane. Remove the screws and discard the nuts.



4. The screws can then be used to attach the bracket to the pedestal



5. The first sacrificial splice tray is pre-installed with two 4-40 x 1/4" screws (part number 001523).

Note: The bottom tray is "sacrificial" because it must be screwed into place and cannot be removed for splicing as easily as the other trays.



FieldSmart® Fiber Distribution Point (FDP) Splice Only Pedestal Installation Manual



Closing the Pedestal

After work is completed in the pedestal, the black vinyl sheeting will need to be wrapped around the splice trays and secured into place using the slots and tabs that are precut into the vinyl.



The cover is replaced by first hanging the top of the pedestal cover from the back panel, then swinging the cover closed and tightening the security screw.



Security screw



FieldSmart[®] Fiber Distribution Point (FDP) Splice Only Pedestal *Installation Manual*

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 three (3) 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 at Clearfield, the product will be returned to the Customer and the customer billed for freight in both directions.

View our warranty policy here: <https://www.seeclearfield.com/warranty.html>

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

Clearfield assumes no warranty liability regarding defects caused by:

1. Customer's modification of Product, excepting installation activities described in Clearfield documentation
2. 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
3. Customer's installation or maintenance, excepting activities described in and performed in accordance with Clearfield documentation
4. Customer's improper or negligent use or application of Product
5. 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
6. Environmental factors and weathering resulting in aging and damage not necessary or applicable to the function of the product

FieldSmart® Fiber Distribution Point (FDP) Splice Only Pedestal

Installation Manual



Proprietary Notice

Information contained in this document is copyrighted by Clearfield, Inc. and may not be duplicated in full or part by any person without prior written approval of Clearfield, Inc.

Its purpose is to provide the user with adequately detailed documentation to efficiently install the equipment supplied. Every effort has been made to keep the information contained in this document current and accurate as of the date of publication or revision.

However, no guarantee is given or implied that the document is error free or that it is accurate with regard to any specification.

Technical Support

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.

Clearfield, Inc.
7050 Winnetka Ave N
Minneapolis, MN 55428

Toll Free: 800.422.2537
Phone: 763.476.6866
Fax: 763.475.8457

Customer Support: sales@clfd.net
Technical Support: techsupport@clfd.net