PLO-TLP-WIN-PED-0

10" UNIVERSAL FIBER OPTIC PEDESTAL KIT

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INTRODUCTION

The intent of this document is to provide general specifications and installation guidelines for the PlugIn Optics 10" Universal Fiber Optic Distribution Pedestal along with components of the kit. This document also offers contact information should you need support during the installation as well as ordering information for additional kit components and complimentary products deployed with this kit.

PEDESTAL KIT DESCRIPTION

The 10" Universal Fiber Optic Pedestal Kit (p/n PLO-TLP-WIN-PED-0) is a bespoke fiber optic distribution pedestal kit. This kit includes a 10" outdoor distribution pedestal enclosure, 42" mounting stake providing a stable mounting location for the Universal Mounting Plate (UMP-1552) and Universal Grounding Bracket (UGB-300L). Also included are the 12/24 fiber splice tray (U-TRAY-854) kit as well as two LC UPC fiber optic pig tails to splice in your feeder fibers.

10" UNIVERSAL DISTRIBUTION PEDESTAL

The 10" Universal Pedestal (U-PED-1014) consists of the base and the top. Both the base and top are stackable conserving significant space when being shipped, warehoused, and transported to the jobsite. This nonmetallic enclosure provides protective housing for above grade Outside Plant (OSP) fiber splices. When buried feeder fiber is stubbed for loop-through, stub-in, and customer drops splicing, the 10" Universal Distribution Pedestal provides protection against weather, dirt, flooding and insects.

The base provides protection and management of the feeder fiber cables, conduit and branch/drop cables as they enter and exit the pedestal. The base features dedicated areas for feeder cables, knockouts for drops and an extra wide, 14" opening towards its top. The base also features stake mounting locations, front and rear, to fit multiple orientations. The top provides a rigid protective structure that slides over the above ground splice environment. The top also features a self-locking latch for ease of installation and security and a domed top for shedding rain, snow, and ice.
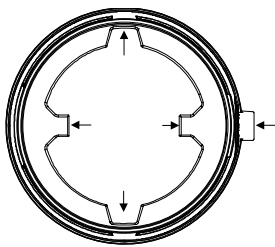
10" Distribution Pedestal
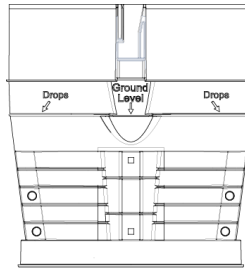
Figure 2: Pedestal Base, Top-Down View

Figure 1: Pedestal Base, Front View

TECHNICAL SPECIFICATIONS

DESCRIPTION	UNITS	SPECIFICATION
TOTAL HEIGHT	in (mm)	36.25 (920.75)
BASE HEIGHT	in (mm)	14.25 (361.95)
TOP HEIGHT	in (mm)	25.75 (654.05)
TOTAL HEIGHT (INSTALLED)	in (mm)	28 (711.2)
WIDTH (MAX. DIA.)	in (mm)	13.9 (353.06)
WITDH (MIN. BASE)	in (mm)	11.25 (285.75)
OPERATING TEMPERATURE	°C	-40 ~ +85
STORAGE TEMPERATURE	°C	-40 ~ +85

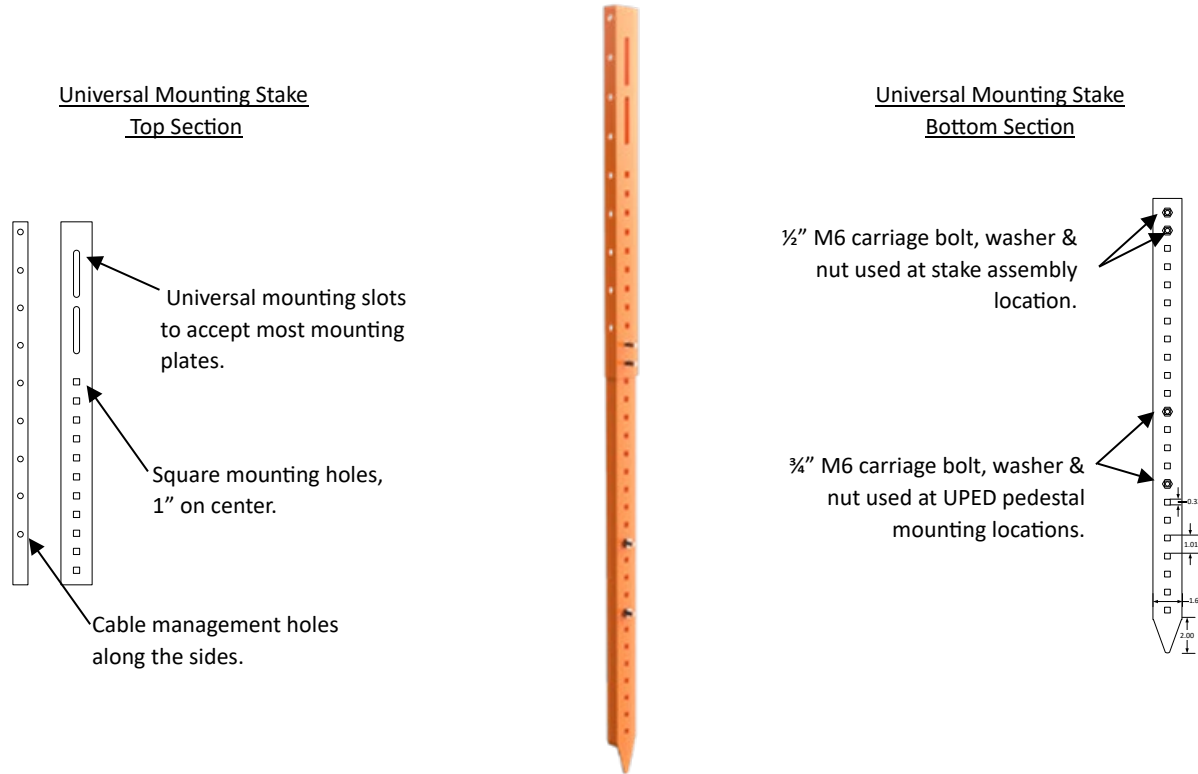### ORDERING INFORMATION

PART NUMBER	DESCRIPTION
U-PED-1014	10" UNIVERSAL DISTRIBUTION PEDESTAL, BASE & TOP

NOTE: PLUGIN OPTICS OFFERS A FULL LINE OF COMPLIMENTARY HARDWARE TO DEPLOY WITH UNIVERSAL DISTRIBUTION PEDESTALS.

ADJUSTABLE MOUNTING STAKE

The 42" Universal Mounting Stake (U-STAKE-42) is a two-piece, adjustable stake that provides the flexibility for each project, and the rigidity needed to support incoming feeder cables, outgoing armored drop cables, the mounting plate and whatever the project calls for. The U-STAKE-42 features adjustable top-to-bottom assembly, slotted mounting holes for vertical adjustment of the mounting plate, and ¼" round holes along the sides of the top to provide the most versatile deployment possible.
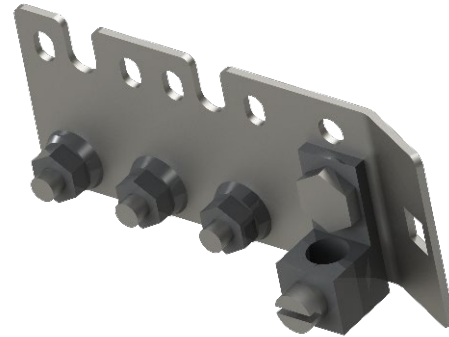
Universal Mounting Stake
Top Section

Universal mounting slots to accept most mounting plates.

Square mounting holes, 1" on center.

Cable management holes along the sides.

Universal Mounting Stake
Bottom Section

½" M6 carriage bolt, washer & nut used at stake assembly location.

¾" M6 carriage bolt, washer & nut used at UPED pedestal mounting locations.

TECHNICAL SPECIFICATIONS		
DESCRIPTION	**UNITS**	**SPECIFICATION**
DIMENSION: FULL STAKE (MAX)	in (mm)	42 (1066.8) x 1.5 (38.1) x ¾ (19.1)
DIMENSION: STAKE BOTTOM	in (mm)	25.25 (641.4) x 1.5 (38.1) x ¾ (19.1)
DIMENSION: STAKE TOP	in (mm)	19 (482.6) x 1.5 (38.1) X ¾ (19.1)
MATERIAL	--	14GA STAINLESS STEEL
OPERATING TEMPERATURE	°C	-40 ~ +85
STORAGE TEMPERATURE	°C	-40 ~ +85

ORDERING INFORMATION	
PART NUMBER	**DESCRIPTION**
PLO-US-42	PEDESTAL STAKE, TWO PIECE, ADJUSTABLE LENGTH, 22-INCH TO 42-INCH, UNIVERSAL
NOTE: PLUGIN OPTICS OFFERS A FULL LINE OF COMPLIMENTARY HARDWARE TO DEPLOY WITH UNIVERSAL DISTRIBUTION PEDESTALS.	

UNIVERSAL GROUNDING BRACKET

The UGB-300-L "Universal Grounding Bracket" provides an excellent grounding and bonding solution. The plate has an integrated Lug that accommodates #14 - #2 AWG and three posts with corresponding washer nuts for flexible ground wire and eyelet terminations.

TECHNICAL SPECIFICATIONS		
DESCRIPTION	**UNITS**	**SPECIFICATION**
MATERIAL (BRACKET)	--	14 GA STAINLESS STEEL
MATERIAL (GRD LUG)	--	TIN PLATED ALUMINUM
DIMENSIONS	in	4 X 1 ½ X ¾
DIMENSIONS	mm	101.6 X 38.1.1 X 19.05
OPERATING TEMPERATURE	°C	-40 ~ +85
STORAGE TEMPERATURE	°C	-40 ~ +85

ORDERING INFORMATION	
PART NUMBER	**DESCRIPTION**
PLO-UGB-300-L	UNIVERSAL GROUNDING BRACKET, PEDESTAL AND CPE
NOTE: PLUGIN OPTICS OFFERS 8" and 10" DISTRIBUTION PEDESTALS, STAKES, AND SPLICE TRAYS TO COMPLIMENT THE UGB-300-L BRACKET.	

UNIVERSAL MOUNTING PLATE

The Plugin Optics Universal Mounting Plate (UMP-1552) is a purpose-built mounting plate that was designed to go anywhere while providing a versatile and secure place to secure all your cables, drops, splice cases, splitter/tap modules, and LGX CWDM/DWDM modules. The integrated side cleats and strain relief T's allow technicians to easily tie down and route fiber cables to meet bend radius requirements.

Integrated tie down cleats along side edges

UTRAY splice tray mounting locations, top or bottom

LGX slots

Universal use mounting positions

Strain releif tie down "teeth"

Access Side

Mounting Side

5.5

15.5

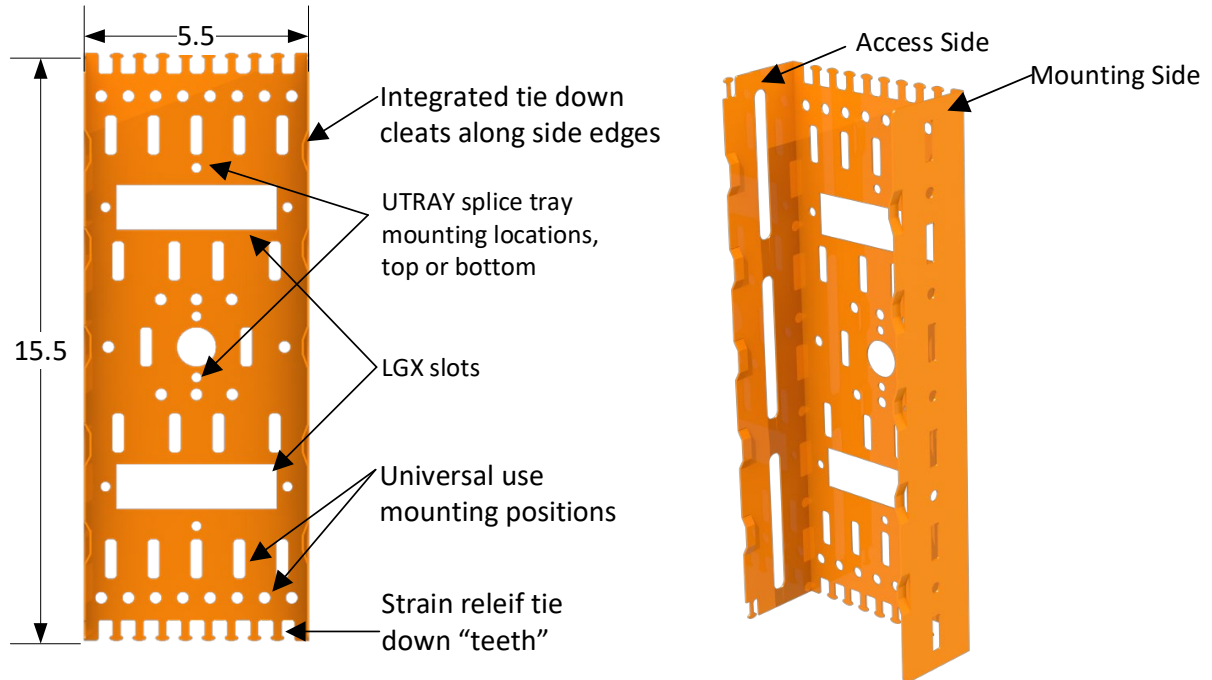| TECHNICAL SPECIFICATIONS		
DESCRIPTION	UNITS	SPECIFICATION
MATERIAL	--	16 GA ALUMINUM
DIMENSIONS	IN	15 X 5 ¾ X 2 ½
DIMENSIONS	MM	381 X 146.1 X 63.5
OPERATING TEMPERATURE	°C	-40 ~ +85
STORAGE TEMPERATURE	°C	-40 ~ +85

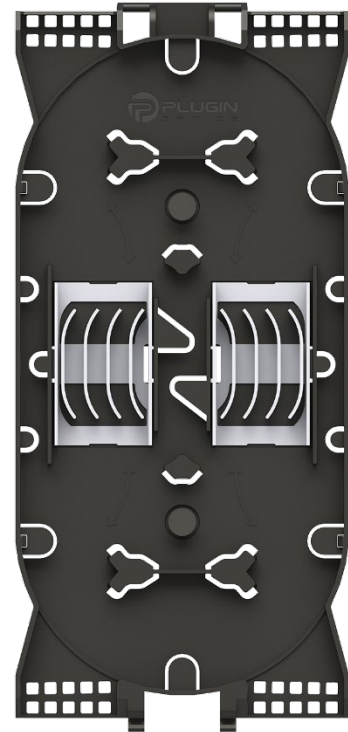| ORDERING INFORMATION	
PART NUMBER	DESCRIPTION
PLO-UMP-1552	UNIVERSAL MOUNTING PLATE, PEDESTAL AND CPE
NOTE: PLUGIN OPTICS OFFERS 8" and 10" DISTRIBUTION PEDESTALS, STAKES, AND SPLICE TRAYS TO COMPLIMENT THE UMP-1552 MOUNTING PLATE.	

UNIVERSAL SPLICE TRAY

The Plugin Optics universal fiber splice tray (U-TRAY-854) is the perfect companion to the UMP-1552 mounting plate as it can be secured with Nylatches and does not require a strap or mechanical tie-down. While compact in size these trays have ample room to route and secure fiber throughout. At .6" deep these trays can be easily stacked on top of one another to provide as much capacity as you need in a single mounting plate. The splice tray kit comes with factory installed Nylatch fasteners and a clear cover.

Also included in the kit are 6 fuse holders, 6 cables ties and a 9" length of felt tape for a complete fiber splicing solution.

Felt Tape (q1)   Cable Ties (q6)   Fiber Fuse Holders (q6)

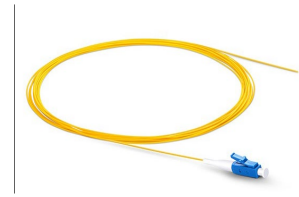| TECHNICAL SPECIFICATIONS		
DESCRIPTION	**UNITS**	**SPECIFICATION**
MATERIAL	--	ABS PLASTIC
DIMENSIONS	IN	8.4 X 4 X .8
DIMENSIONS	MM	215.9 X 101.6 X 20.3
OPERATING TEMPERATURE	°C	-40 ~ +85
STORAGE TEMPERATURE	°C	-40 ~ +85

ORDERING INFORMATION	
PART NUMBER	**DESCRIPTION**
PLO-UTRAY-854	UNIVERAL FIBER SPLICE TRAY KIT, 8.5" X 4"
NOTE: PLUGIN OPTICS OFFERS 8" AND 10" DISTRIBUTION PEDESTALS, STAKES, MOUNTING PANEL AND GROUND BRACKET SOLUTIONS TO MEET YOUR OSP AND FIBER NETWORKING NEEDS.	

SINGLE MODE FIBER PIGTAILS

PlugIn Optics offers a wide array of fiber jumpers, pigtails, and cables to complement our fiber networking solutions. In this kit there are two, 900-micron, single mode fiber pigtails that are 3 feet long, and pre-terminated on one end with LC UPC connectors. Ideal for splicing into the feeder fibers for connection to CWDM or DWDM modules.

LC UPC Pigtail

ORDERING INFORMATION	
PART NUMBER	**DESCRIPTION**
PLO-PT-OS2-3F-LCU-PVC	3 FOOT, LC-UPC SHORT BOOT, SIMPLEX, OS2 S-MODE, PVC, 0.9MM, PIGTAIL
NOTE: PLUGIN OPTICS OFFERS A FULL LINE OF COMPLIMENTARY CABLE & JUMPER ASSEMBLIES. CONTACT US TODAY.	

INSTALLATION

The following instructions are meant to act as guidelines only. Where applicable it is recommended that all company and local methods, procedures, and rules are followed.

PREPARE THE SITE

Prepare the trench/hole where the pedestal will be installed. The base will require a 16" diameter hole to allow for a minimum of 1"-2" of backfill around the perimeter of the pedestal. The pedestal base will be buried appx. 8.5" below grade with the pedestal mounting stake another 7" below that.

ASSEMBLE THE MOUTNING STAKE

Now that the site is ready assemble stake bottom to the stake top. Using the provided ½" carriage bolts (2), washers (2), and nuts (2) connect the bottom and top parts of the stake together. Note: by attaching the bottom 2 holes on the stake top to the two most upper holes on the stake bottom maximizes the overall height of the mounting surface. The overall installed height can be adjusted down by using the mounting holes lower down on the bottom part of the stake as needed.

ATTACH THE GROUNDING BRACKET

Attach the grounding bracket to the mounting stake at the desired location just below where the two sections of the pedestal mounting stakes are joined. Using the 3rd hole below that joint will place the bracket just below the top of the pedestal base. Ensure that the grounding bracket is oriented away from any cable/drop ingress/egress routes.
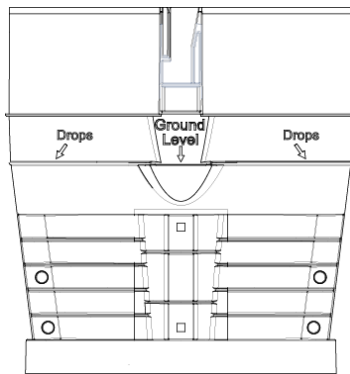
ATTACH THE STAKE TO THE PED

Using the ¾" carriage bolts (2), washers (2) and nuts (2) provided attach the stake to the pedestal. You will notice that there are two possible stake mounting locations. One directly behind the latch for the lock on the front of the pedestal and one directly across from it on the rear of the pedestal base. This allows the orientation of the lock, stake and mounting plate can be adjusted for challenging installation locations. The figure above shows the stake mounted to the base, using the rear mounting location opposite the lock latch.

Insert the carriage bolts into the desired pedestal mounting location and aling the stake so that the 8th hole from the bottom of the stake aligns with the bottom pedestal mounting hole. At full depth the stake will protrude appx 7" below the pedestal.

PLACE AND BACKFILL

Place the pedestal and stake in the hole and backfill ensuring that the feeder cables/conduit are oriented towards the sides of the peds. In the figure below you can see that, when facing the pedestal front, the feeder channels and drop cable knockouts are labeled and located on the left and right sides of the pedestal base.
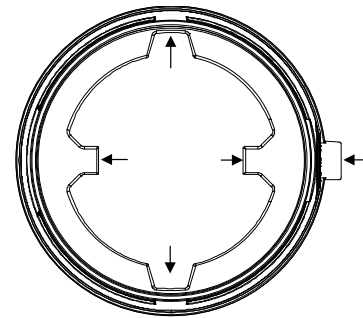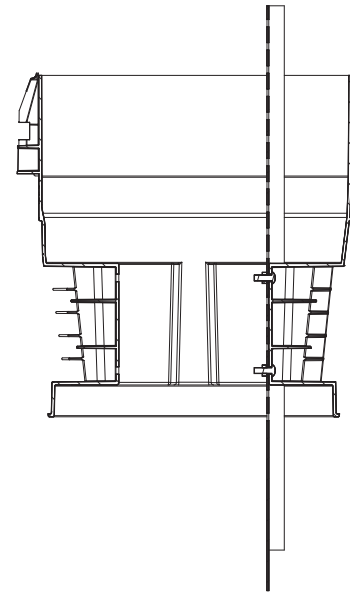
ATTACHING THE MOUNTING PLATE

Using the ½' carriage bolts, washers and nuts provided with the mounting plate, install the mounting plate to the stake. The height of the panel can be adjusted down as needed but is typically installed even with the top of the mounting stake.

PREPARING THE FEEDER

Connect ground strap(s) to the ground bracket per company SOP or engineering package. Dress in any conduit, or cable loops ensuring that they do not obstruct the space directly in front of or behind the mounting panel. Conduit should not be any higher than 3" below the top of the base and secured out of the way. Ring cut the fiber sheath, creating a mid-sheath of appx 6'- 8' per the company's SOP. Prepare the desired fiber ends for splicing.
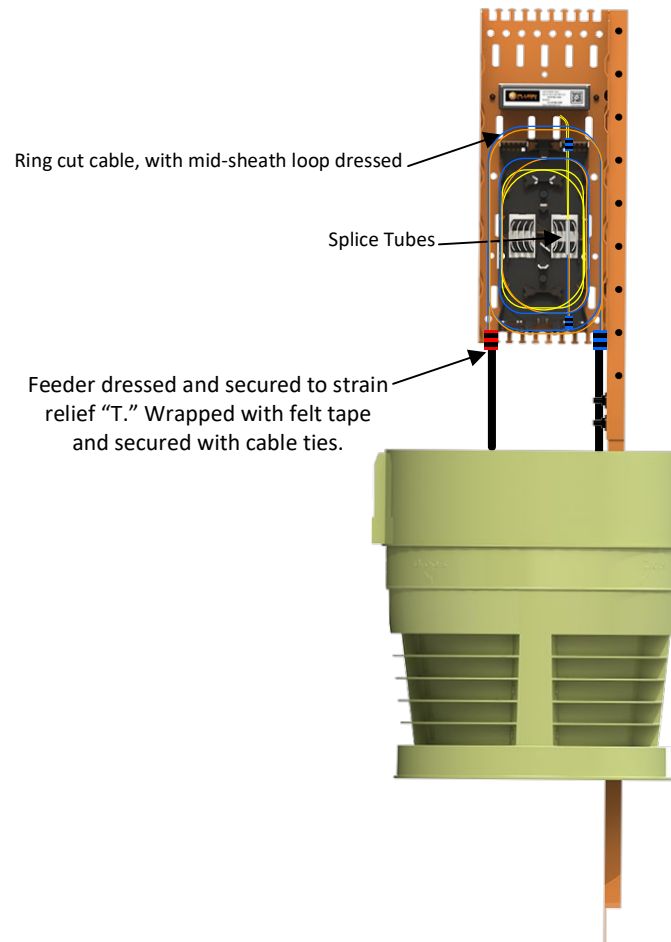
SPLICE THE FIBER
Following company SOP splice the assigned fibers to the fiber pigtails per the engineering specifications. Dress the spliced fibers and splice tubes into the tray. Use the provided felt tape and zip ties to secure the fibers where they enter or exit the tray. Once complete, record fiber assignment data on the label on the splice tray cover and insert cover into the tray.

DRESS CABLES AND SPLICE TRAY
Now that the splice is complete. Begin by securing the feeder fiber sheath ends to the outer most strain relief "T' on the bottom of the mounting plate. Now dress the mid-sheath buffer tube loops along the edge of the plate being sure not to block the area where the splice tray would go. Install the tray onto the panel using the nylatch pins. Be sure the nylatch plungers are pulled out before pressing it to the plate. Note: you may have to remove the cover to access the Nylatch plunger. Push the tray and nylatch grommets into the holes and while maintaining slight pressure, push in on the Nylatch plungers until you feel it click. This will ensure a strong mechanical connection to the plate. Finish dressing any fibers or cables ensuring that there are no sharp bends or fiber routing along sharp edges.

CONNECT THE PIGTAILS
Now that the fiber is spliced, and everything is dressed in its time to install the CWDM or DWDM LGX module. Slide the desired LGX module into the top LGX slot of the mounting plate. The figure to the right shows the newly spliced pigtails leaving the top edge of the splice tray routing through a slot in the mounting plate towards the rear where the LC connectors of the LGX are facing. Be careful that any fibers are protected, using transition/buffer tubing, or felt tape, wherever they cross a hard edge. The LC connectors can be plugged into the two common (TX and RX, COM) ports per the assignments found in your engineering package.

Ring cut cable, with mid-sheath loop dressed

Splice Tubes

Feeder dressed and secured to strain relief "T." Wrapped with felt tape and secured with cable ties.

INSTALLATION SUPPORT

If you run into any issue or have any questions about this or any PlugIn Optics solution, please feel free reach out to us via phone or email and contact us any time or you can simply use the camera on your smartphone to scan the QR code below to get all the latest product specs, review applications or even submit a contact ticket for support.

PlugIn Optics Customer Support
Contact us by phone @ (561) 612-5703
Or via email: cx@pluginoptics.com

Install Support

SAFETY NOTICES

It is important to follow company and local safety guidelines when handling fiber optic cables. Never look into the end of a fiber jumper or cable in the presence of laser light. Exercise extreme caution when installing, testing or maintaining live circuits. If eyes are exposed to laser light or radiation occurs, immediately seek treatment by a medical professional as exposure is a substantial risk of serious damage to the eye and can result in total vision loss!

Fiber cables and fiber cleaning solvents may contain hazardous or harmful materials. Refer to the Material Safety Data Sheet (MSDS) when working with cleaning solvents or similar products. Also, Fiber optic glass fragments can be very sharp and can be harmful to skin and eyes so be sure to exercise extreme discipline when handling fibers, cables, and solvents. Use Company standard procedures to collect and dispose of glass shards and fragments.

When working around the job site, it is important to use all the safety equipment recommended by your company. Items like laser safe protective eyewear, work gloves, steal toe boots and tools in good working order can be the difference between finishing the job in good health, without injury, and with your eyesight.

ORDERING INFORMATION

The table below contains the ordering information for this kit and complimentary solutions often ordered with this kit. If you have any questions, feel free to call the support number listed above or email us at sales@pluginoptics.com for more information.

KIT ORDERING INFORMATION	
PART NUMBER	**DESCRIPTION**
PLO-TLP-WIN-PED-0	10" UNIVERSAL FIBER OPTIC PEDESTAL KIT CONTAINING 10"PEDESTAL, 42" ADJUSTABLE STAKE, GROUND BRACKET, MOUNTING PLATE, SPLCE TRAY, AND (2) 3' LC/UPC FIBER PIGTAILS
	THE ABOVE KIT CONTAINS:
PLO-UPED-1014	10" UNIVERSAL DISTRIBUTION PEDESTAL, BASE & TOP
PLO-US-42 (Q1)	PEDESTAL STAKE, TWO PIECE, ADJUSTABLE LENGTH, 22-INCH TO 42-INCH, UNIVERSAL
PLO-UMP-1552 (Q1)	UNIVERSAL MOUNTING PLATE, PEDESTAL AND CPE
PLO-UTRAY-854 (Q1)	UNIVERAL FIBER SPLICE TRAY KIT, 8.5" X 4"
PLO-UGB-300-L (Q1)	UNIVERSAL GROUNDING BRACKET, PEDESTAL AND CPE
PLO-PT-OS2-3F-LCU-PVC (Q2)	3 FOOT, LC-UPC SHORT BOOT, SIMPLEX, OS2 S-MODE, PVC, 0.9MM, PIGTAIL

COMPLIMENTARY JUMPERS & CABLES	
PART NUMBER	**DESCRIPTION**
	ARMORED DROP CABLES
PLO-AC-OS2-4-100-LC-00	4 CORE, OS2, ARMORED BRANCH CABLE, LC-UPC SHORT BOOT, 9-INCH BREAKOUT WITH 2MM COLOR CODED (BL, OR, GR, BR) FURCATION TUBING ON END A, STUB ON END B, 100 FEET LENGTH
PLO-AC-OS2-4-200-LC-00	4 CORE, OS2, ARMORED BRANCH CABLE, LC-UPC SHORT BOOT, 9-INCH BREAKOUT WITH 2MM COLOR CODED (BL, OR, GR, BR) FURCATION TUBING ON END A, STUB ON END B, 200 FEET LENGTH
	LC UPC PIGTAIL
PLO-PT-OS2-3F-LCU-PVC	3 FOOT, LC-UPC SHORT BOOT, SIMPLEX, OS2 S-MODE, PVC, 0.9MM, PIGTAIL
PLO-PT-OS2-5F-LCU-PVC	5 FOOT, LC-UPC SHORT BOOT, SIMPLEX, OS2 S-MODE, PVC, 0.9MM, PIGTAIL
PLO-PT-OS2-10F-LCU-PVC	10 FOOT, LC-UPC SHORT BOOT, SIMPLEX, OS2 S-MODE, PVC, 0.9MM, PIGTAIL
	SC APC PIGTAIL
PLO-PT-OS2-3F-SCU-PVC	3 FOOT, SC-APC SHORT BOOT, SIMPLEX, OS2 S-MODE, PVC, 0.9MM, PIGTAIL
PLO-PT-OS2-5F-SCU-PVC	5 FOOT, SC-APC SHORT BOOT, SIMPLEX, OS2 S-MODE, PVC, 0.9MM, PIGTAIL
PLO-PT-OS2-10F-SCU-PVC	10 FOOT, SC-APC SHORT BOOT, SIMPLEX, OS2 S-MODE, PVC, 0.9MM, PIGTAIL
NOTE: PLUGIN OPTICS PROVIDES A FULL LINE OF COMPLIMENTARY JUMPERS AND CABLES.	

WWW.PLUGINOPTICS.COM

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Subject to change without notice.