



SLACKLOOP® IN-SPAN STORAGE SYSTEMS

PLASTIC AND ALUMINUM



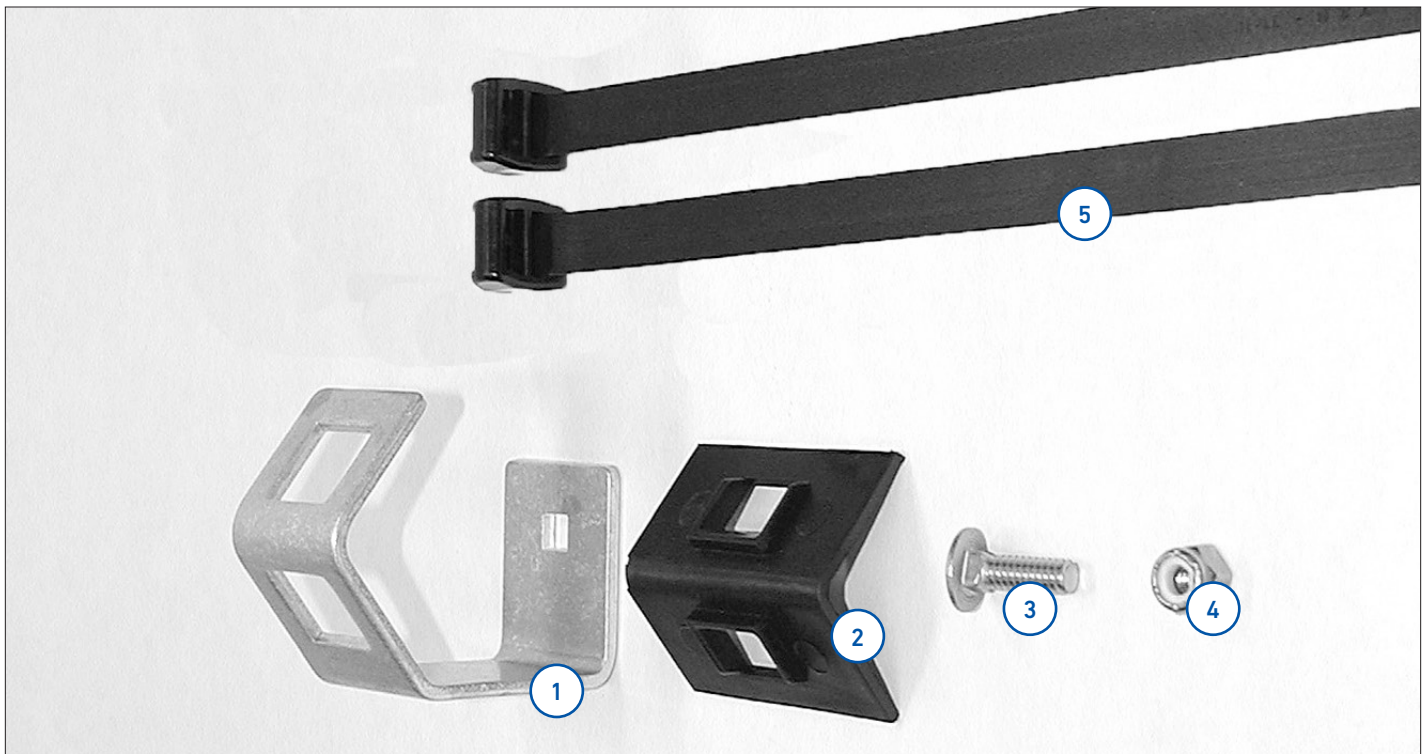
INSTALLATION INSTRUCTIONS

IMPORTANT SAFETY INFORMATION

READ AND COMPLETELY UNDERSTAND ALL INSTRUCTIONS BEFORE INSTALLING PRODUCT. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY OR DEATH.

This product is intended for use by trained technicians only. This product should not be used by anyone who is not familiar with and not trained to use it. When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact. Be sure to wear proper safety equipment per your company protocol. These instructions are not intended to supersede any company construction or safety standards. These instructions are offered only to illustrate safe installation for the individual. PLP products are intended for the specified application only. Do not modify this product under any circumstances. Do not reuse or reinstall any PLP product unless that capability is expressly indicated in the product's Installation Instructions. For proper performance and personal safety, be sure to select the proper PLP product before installation. PLP products are precision devices. To ensure proper performance, they should be stored in cartons under cover and handled carefully.

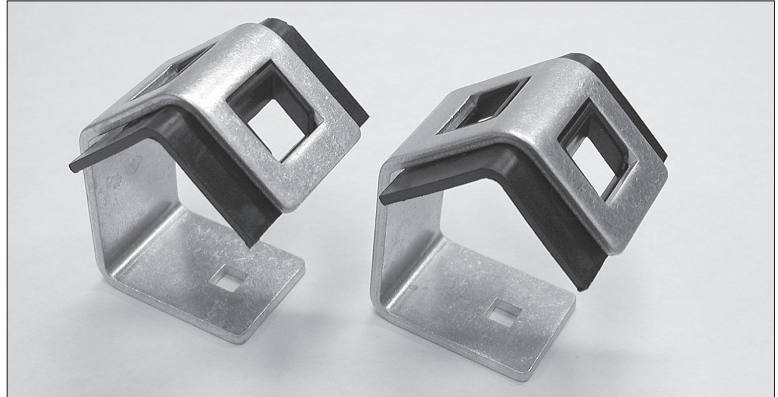
ADSS AERIAL BRACKET KIT CONTENTS



1. ADSS Hanger Brackets (4)
2. Cable Cushions (4)
3. Carriage Bolts (4)
4. Lock Nuts (4)
5. Cable Ties (4)

ASSEMBLE THE HANGER BRACKETS

- 1A** Press fit the cable cushions into hanger brackets.



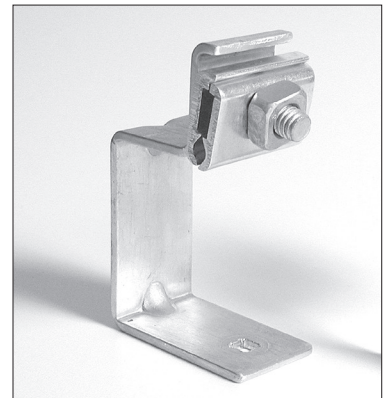
MESSENGER STRAND AERIAL BRACKET KIT CONTENTS



1. Messenger Hanger Brackets (4)
2. Tap Bracket (Bug Nut) (4)
3. Carriage Bolts (4)
4. Lock Nuts (4)

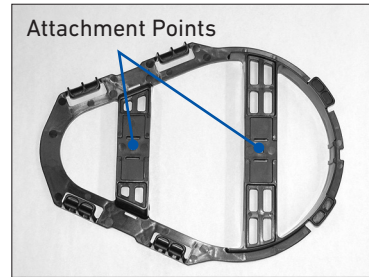
ASSEMBLE THE HANGER BRACKETS FOR MESSENGER STRAND

- 1B** Loosely assemble tap brackets to hanger brackets.

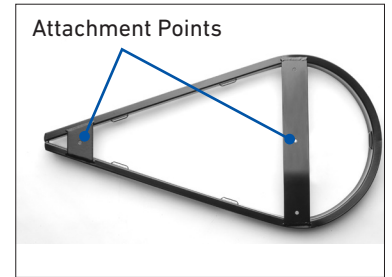


ASSEMBLE THE HANGER BRACKETS TO CABLE STORAGE BRACKET

Secure hanger brackets in the locations shown using the carriage bolts and lock nuts. Do not over tighten nuts.



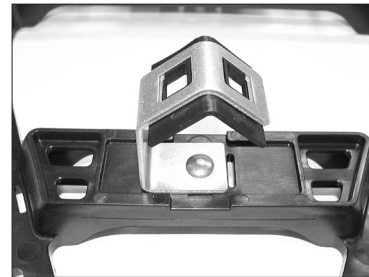
Plastic



Aluminum

ASSEMBLE HANGER BRACKET ATTACHMENT

Completed (from Step 1A) Hanger Bracket Assembly for ADSS cable applications.



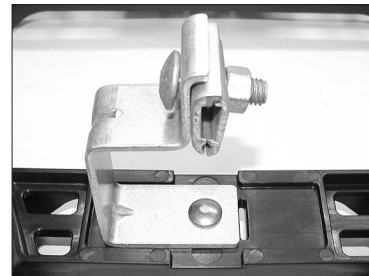
Plastic



Aluminum

MESSENGER HANGER BRACKET ASSEMBLY

Completed (from Step 1B) Hanger Bracket Assembly for lashed messenger cable applications.



Plastic



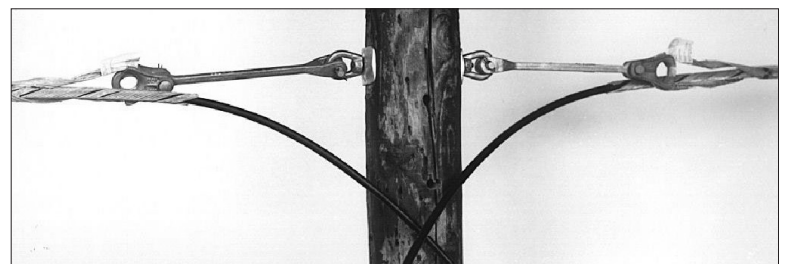
Aluminum

SLACK CABLE AND BRACKET PLACEMENT

2

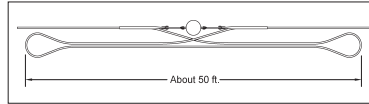
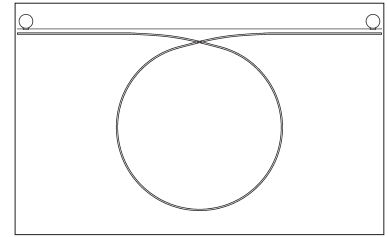
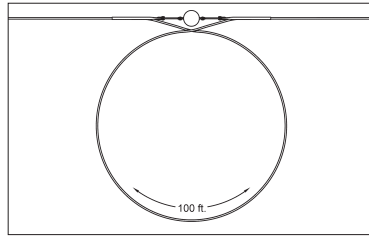
Determine Routing of Slack Cable Loop.

When using ADSS cable, all slack loops are located at the structure between two Dead-Ends as shown. Lashed Messenger slack loops may be stored completely within the span or at the structure.



STORING SLACK CABLE

- 2A** The distance between the cable storage brackets will be approximately 1/2 the total length of cable being stored. In the example, a 100 ft (30.5 m) cable loop is stored between two storage brackets about 50 ft (15.2 m) apart. Begin by securing the middle of the slack loop where the cables cross at the pole and then work in both directions towards the cable storage bracket (shown in the ADSS application, right figures).



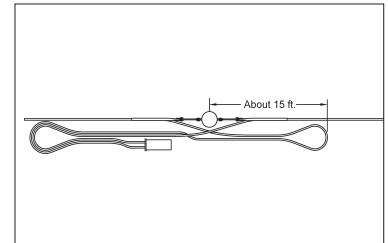
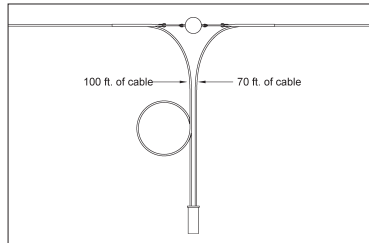
ADSS - Slack on both sides of structure



Lashed Messenger - Midspan Slack

SLACK CABLE STORAGE AT SPLICE LOCATIONS

- 2B** Slack cable length is determined by the required distance to reach the splicing location. One cable requires extra length in order to loop around in the correct direction. In the example, 70 ft (21.3 m) of length is required to reach the splicing location. The second cable is 30 ft (9.1 m) longer and will loop around the second storage bracket located about 15 ft (4.6 m) from the center of the splice point.



Begin by hanging the splice closure. For ADSS, the closure will always hang on the rods of the Dead-End. Work towards the storage bracket in the direction that the cables are coming out of the closure end plate first. The location of the splice closure and the first storage bracket, along with the lengths of the cables will determine the location of the second storage bracket.

The cable lengths shown in the examples in Step 3 are for illustration purposes only. Actual cable lengths will vary based on project requirements.

NOTE: For the Messenger Application, use the appropriate closure hanger bracket for direct attachment to the messenger.

OPTIONAL: INSTALLATION OF POLE PASS PROTECTION

UNIGROUP CABLE GUIDE (UCG) KIT CONTENTS



1. Lag Screws for wood pole (3)
2. Uni-Group Cable Guide (2 halves)
3. Machine screws with nuts and washers for concrete or steel poles (2)

INSTALLATION ON WOOD POLES

3A

Install UCG on the pole 3" - 12" (76 mm - 305 mm) below the main cable run. Secure back half of UCG to pole using short lag bolt.

Group cables and install front half of the UCG with long lag bolts.

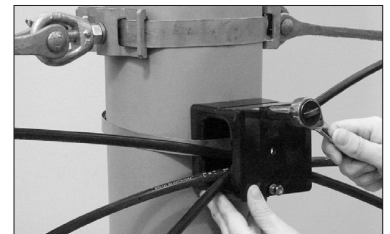
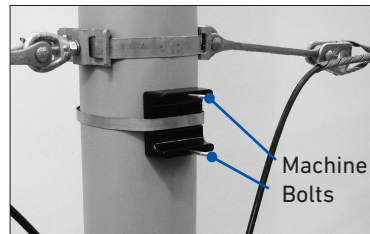


INSTALLATION ON STEEL POLES

3B

Insert machine bolts through the back half of the UCG and band to the pole using 3/4" (19 mm) wide banding.

Group cables and install front half of the UCG with washers and nuts.



ABRASION PROTECTOR KIT CONTENTS



1. Abrasion protectors cable up to 0.5" OD (3)
2. Abrasion protectors cable equal or > 0.5" OD (3)
3. Cable Ties (2)

ABRASION PROTECTORS

- 3C** Cable abrasion protectors with cable straps can be used to group and protect the cable passing the pole. Two sizes of abrasion protectors are provided. Use the small size for cable diameters up to 0.5" (13 mm), and the large size for diameters 0.5" (13 mm) and above.



CABLE STORAGE BRACKET INSTALLATION

SECURE SLACK CABLE TO MAIN CABLE

- 4** Secure slack cable loop to main cable by placing heavy duty cable ties every 3 ft - 5 ft (0.9 m - 1.5 m), or lash the cable to the messenger strand per approved company practices.



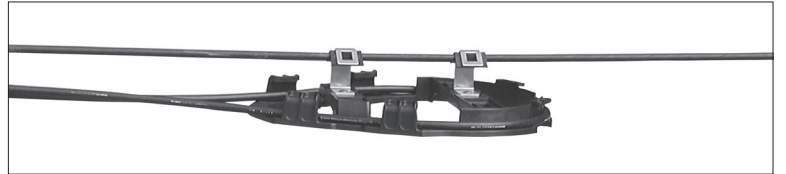
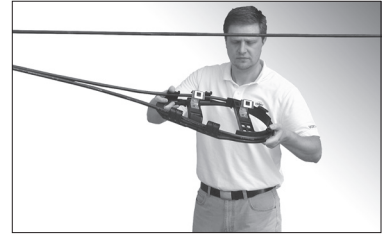
SECURE THE SLACK LOOP TO THE SLACKLOOP® CABLE STORAGE SYSTEM

5A

Nearing the end of the slack loop, clip the cable into the Cable Capture Tabs of the plastic cable storage bracket.

Pull the plastic cable storage bracket to the back of the slack loop.

For ADSS, hang the plastic cable storage bracket on the main cable.



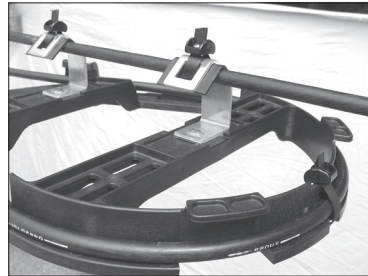
Plastic

5B

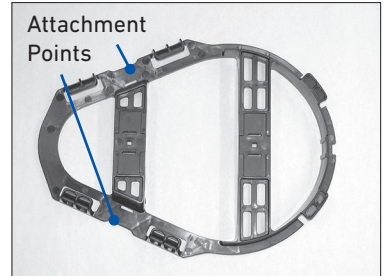
Secure the cable loop at the bottom of the cable storage bracket using a cable tie.

Plastic cable storage optional cable tie locations are located between the Cable Capture Tab.

PLP recommends using these cable tie locations when storing multiple cables, or in high wind areas.



Plastic

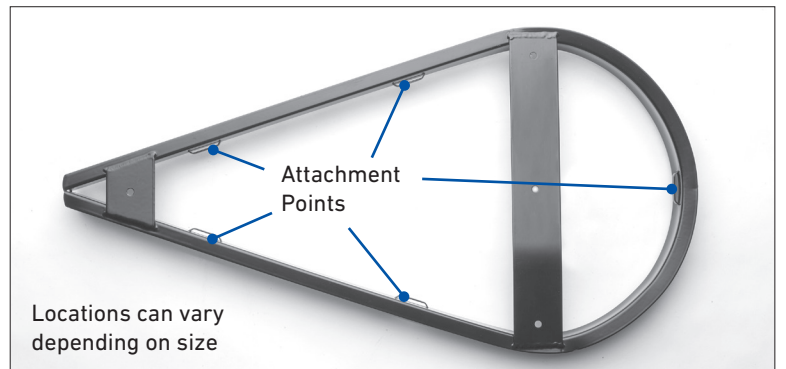


Plastic

5C

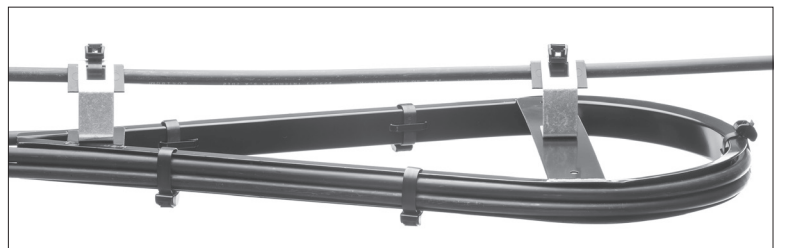
For aluminum storage brackets, cable ties are required under all conditions. Aluminum brackets include five attachment points for cable ties - use all to properly secure the cable.

NOTE: Only the 10" cable storage bracket has fewer attachment points - in this case, attach cable to all four points.



Locations can vary depending on size

Aluminum



Final position of Aluminum Storage Bracket with tie wraps at all attachment points.

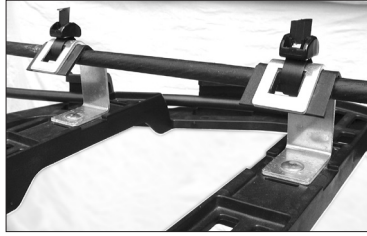
SECURE CABLE STORAGE SYSTEM TO MAIN CABLE

6

For ADSS cable secure Hanger Bracket with included Cable Ties, reference first row of images.

For messenger applications, clamp tap brackets onto the messenger strand, reference second row of images.

ADSS Application

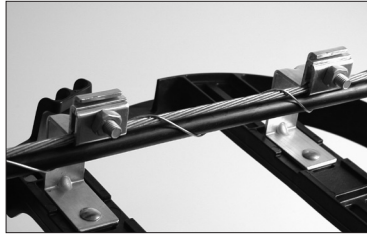


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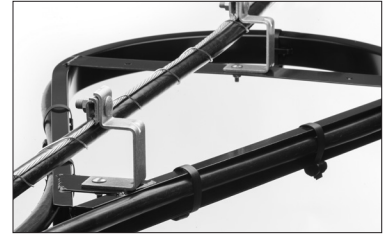


Aluminum

Messenger Application



Plastic



Aluminum



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