PREFORMED LINE PRODUCTS

Section 1 – COYOTE® Closure Series

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Specialty Closures

COYOTE® Closure Overview

Choose a member of the COYOTE Closure Family that Best Suits your Application.....

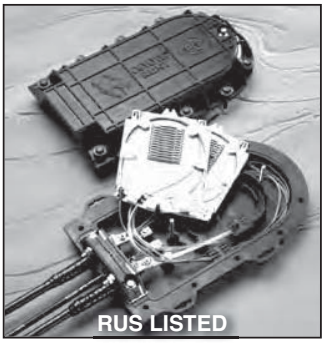
It all began with the development of a new breed of fiber optic closure. Craft friendly. Easily installed. Competitively priced. And designed to go wherever fiber optic cable takes you. Over the years the philosophy has remained constant, and the family has grown with each successive member offering its own unique solutions to the varied requirements of an ever-evolving fiber optic network. From aerial to underground to every step of the last mile, the COYOTE family of fiber optic closures is there to provide performance you can count on.

COYOTE Closure (Page 1-7)

Setting the bar against which all other fiber closures are measured was no small task for our design team. But years of research & development eventually paid off in the form of a rugged and reliable design that has become legend. After over ten years of field use and several hundred thousand units sold, the original COYOTE Closure still remains one of the most highly regarded and widely used fiber optic closures in the industry.

COYOTE PUP Closure (Page 1-9)

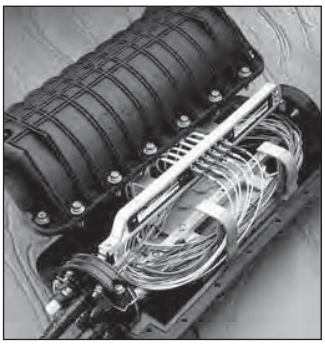
The COYOTE PUP Closure offers the perfect choice for low fiber count distribution applications involving butt and inline installations. The compact size and rugged design allow the closure to be applied in below grade, aerial and buried installations. Supported by a full line of COYOTE accessories, this closure can grow along with your network.



COYOTE RUNT Closure (Page 1-10)

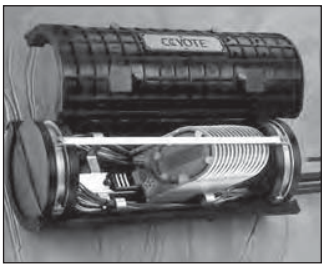
The compact COYOTE RUNT Closure is ideal for low fiber count, (up to 48 splices), end-of-the-line, node and fiber- to-the-curb installations. It will easily fit into most pedestals and hand holes, and the rugged design allows it to be used in all environments.

COYOTE® Closure Overview



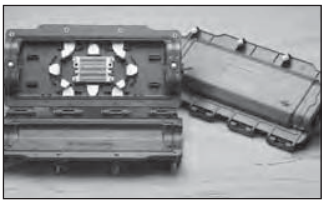
COYOTE Cross-Connect and Cross-Connect/Express Closure (Page 1-14)

The COYOTE Cross-Connect Closure was designed for applications requiring connectorization or cross connecting in the outside plant network. Additionally, the COYOTE Cross-Connect/Express Closure was configured to allow for convenient and safe storage of uncut buffer tubes in the feeder cable, while providing individual connectivity to the fibers of the drop cables.



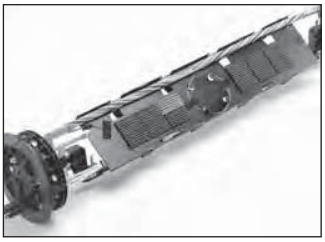
COYOTE Retrofit Closure (Page 1-17)

The COYOTE Retrofit Closure is the right choice for replacement or expansion of existing fiber optic closures.



COYOTE Aerial Drop Closure (Page 1-19)

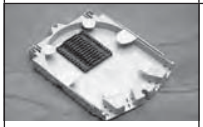
The COYOTE Aerial Drop Closure is a value priced solution. Features include its compact size and ease of installation – no special tools needed. It is capable of higher splice capacities and is designed for PLP's easy-to-use grommet system. Included is the universal mounting bracket, which permits pole mounting with straps, strand mounting with strand clamps or suspension from "J" hooks secured to a pole.



COYOTE Taut Closure (Page 1-20)

The COYOTE Taut Closure simplifies branch cable taps or repairs of taut fiber optic cables. Features the innovative End Plate from the Dome Closure and full line of multi hole grommets.

COYOTE® Short Trays and Closure Capacity Chart

Short Splice Trays & Closures	 COYOTE RUNT	 COYOTE Expanded RUNT	 COYOTE In-Line RUNT	 COYOTE Terminal (Single Chamber)	 COYOTE Terminal (Dual Chamber)[2]	 6.5"x17" COYOTE Dome	 COYOTE PUP
 Low Profile Tray[1] (12 splice count)  Cat. # 80807701 8001130 (blank)	3 Trays 36 Max Splice count	6 Trays 72 Max Splice count	4 Trays 48 Max Splice count	4 Trays 48 Max Splice count	8 Trays 96 Max Splice count	6 Trays 72 Max Splice count	6 Trays 72 Max Splice count
 Standard Tray (12 splice count)  Cat. # 80806033 (w/splice block) 80806182 (blank)	2 Trays 24 Max Splice count	4 Trays 48 Max Splice count	2 Trays 24 Max Splice count	2 Trays 24 Max Splice count	4 Trays 48 Max Splice count	4 Trays 48 Max Splice count	4 Trays 48 Max Splice count
 Ribbon Tray (72 splice count)  Cat. # 80807114 (w/splice block) 80808160 (blank)	1 Tray 72 Max Splice count	2 Trays 144 Max Splice count	2 Trays 144 Max Splice count	2 Trays 144 Max Splice count	4 Trays 288 Max Splice count	3 Trays 216 Max Splice count	2 Trays 144 Max Splice count

[1] 24 count Low Profile Tray (Cat. # 8003468) is available for COYOTE In-Line, COYOTE Terminal (Single Chamber), & COYOTE Terminal (Dual Chamber) closures. Tray Conversion Kit (Cat. # 8003757) is required to use this tray in these closures.

[2] The maximum splice count for the COYOTE Terminal (Dual Chamber) requires trays to be installed in both chambers of the closure.

COYOTE® Long Trays and Closure Capacity Chart

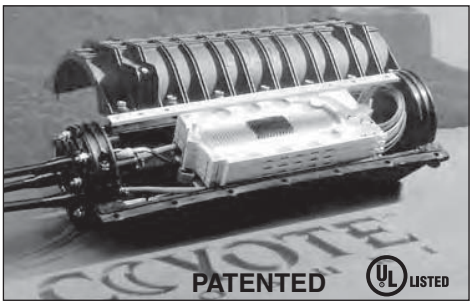
Long Splice Trays & Closures	 6.5"x22" COYOTE Dome	 6.5"x22" COYOTE	 8.5"x22" COYOTE	 6.5"x22" COYOTE Splice Case	 8"x28" COYOTE Splice Case	 9.5"x28" COYOTE Splice Case
 Low Profile Tray (36 splice count) Cat. # 8001127 (w/plastic splice blocks)  8001130 (blank)	6 Trays 216 Max Splice count	6 Trays 216 Max Splice count	11 Trays 396 Max Splice count	6 Trays 216 Max Splice count	9 Trays 324 Max Splice count	13 Trays 468 Max Splice count
 Standard Tray (36 splice count) Cat. # 80805514 (w/elastomer splice block)  80805110 (w/rigid slots)  80805509 (blank)	4 Trays 144 Max Splice count	4 Trays 144 Max Splice count	8 Trays 288 Max Splice count	5 Trays 180 Max Splice count	7 Trays 252 Max Splice count	10 Trays 360 Max Splice count
 Ribbon Tray (144 splice count) Cat. # 80805515 (w/elastomer splice blocks)  80805146 (w/rigid slots)  80805510 (blank)	3 Trays 432 Max Splice count	2 Trays 288 Max Splice count	4 Trays 576 Max Splice count	2 Trays 288 Max Splice count	5 Trays 720 Max Splice count	6 Trays 864 Max Splice count

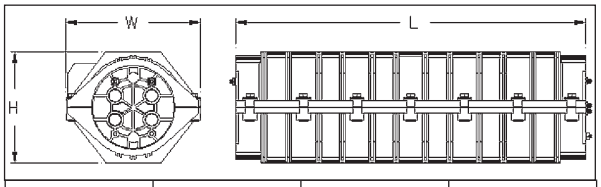
COYOTE® Closure

PLP Feature Focus

Film available at
www.preformed.com

Origin of the Species…





Size	L (cm)	W (cm)	H (cm)
6.0" x 22"	22" (56)	8-1/2" (22)	7" (18)
8.5" x 22"	22" (56)	10-3/4" (27)	9-1/4" (24)

See pages 1-4 and 1-5 for Trays and Splice information

Setting the bar against which all other fiber closures are measured was no small task for our design team. But years of research & development eventually paid off in the form of a rugged and reliable design that has become legend.

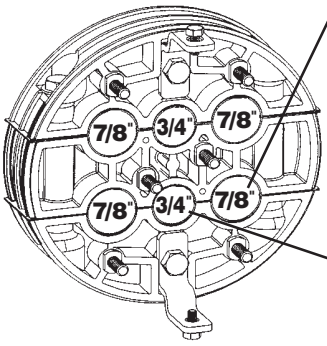
After over ten years of field use and several hundred thousand units sold, the original COYOTE Closure still remains one of the most highly regarded and widely used fiber optic closures in the industry.

Key Features:

- **Sizes:**
  - 6.0" x 22" (15 cm x 56 cm)
  - 8.5" x 22" (22 cm x 56 cm)
- **End plate options: 4 Port and 6 Port**
  - 6 Port provides (4) 7/8" (22 mm) ports and (2) 3/4" (19 mm) ports
  - 4 Port provides (2) 1-1/4" (32 mm) ports and (2) 1" (25 mm) ports
- **Splice Capacity:**
  - Up to 396 with single fusion, 576 with mass fusion
- **Configuration:** Butt or In-line applications
- Organizers designed for loose buffer tube and ribbon applications
- Compact size allows for mounting in smaller locations
- Provided with LOCK-TAPE Sealant System
- Accepts a wide variety of grommets for multi drop applications
- Field proven permanent neoprene gasket system
- No re-entry kits required
- Future cable ports provide capability for future cable installation, without end plate removal
- Integrated air valve to confirm integrity of final assembly
- Full line of mounting hardware
- **UL Approved and RUS Listed**
- Tested in accordance to Telcordia GR-771 CORE

User options for COYOTE Closure Three-Section End Plate

Three-Section Six Port End Plate (Cat. No. 80805105)



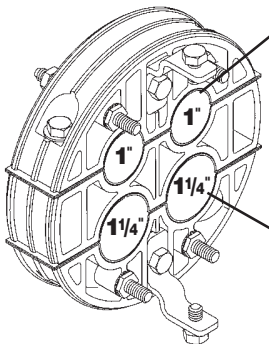
Four 7/8"(22 mm) Ports

Available options:
- Cables up to 0.88" (22 mm) in diameter
- Future Cable Port, 0.56" (14 mm) max. cable diameter
- See Grommet table
- 7/8" Plug Kit (80806180)

Two 3/4" (19 mm) Ports

Available options:
- Cables up to 0.75" (19 mm) in diameter
- See Grommet table
- 3/4" (19 mm) Plug (Cat. No. 80806037, two per kit)

Three-Section Four Port End Plate (Cat. No. 80805739)



Two 1" (25 mm) Ports

Available options:
- Cables up to 1.00" (21 mm) in diameter
- Future Cable Port, 0.81" (21 mm) max. cable diameter
- See Grommet table
- 1" Plug Kit (80806038)

Two 1-1/4" (32 mm) Ports

Available options:
- Cables up to 1.25" (32 mm) in diameter
- Future Cable Port, 1" (25 mm) max. cable diameter
- See Grommet table
- 1-1/4" Plug Kit (80806181)

Note: Three-Section Six Port End Plate Kits include three 7/8" (22 mm) Plugs, two (2) 3/4" (19 mm) Plugs and two Strength Member Brackets.

COYOTE® Closure

COYOTE Closure Kits		
Catalog Number		
6 Port End Plate	4 Port End Plate	Description
8006560	8006633	Buffer Tube: 6" x 22" COYOTE Closure, includes (1) 3 section end plate, (1) blank end plate, organizer and LOCK-TAPE sealant
8006540	8006631	Unitube Transition Compartment: 6" x 22" COYOTE Closure, includes (1) 3 section end plate, (1) blank end plate, organizer, transport tube kit, transition tube kit and LOCK-TAPE sealant
8006587	8006635	Express Buffer Tube: 6" x 22" COYOTE Closure, includes (1) 3 section end plate, (1) blank end plate, express organizer and LOCK-TAPE sealant
8006659		Buffer Tube: RUS LISTED - 6" x 22" COYOTE Closure, includes (1) 3 section end plate, (1) blank end plate, organizer, LOCK-TAPE sealant and (2) RUS listed shield connectors
8006561	8006634	Buffer Tube: 8.5" x 22" COYOTE Closure, includes (1) 3 section end plate, (1) blank end plate, organizer and LOCK-TAPE sealant
8006541	8006632	Unitube Transition Compartment: 8.5" x 22" COYOTE Closure, includes (1) 3 section end plate, (1) blank end plate, organizer, transport tube kit, transition tube kit and LOCK-TAPE sealant
8006588	8006636	Express Buffer Tube: 8.5" x 22" COYOTE Closure, includes (1) 3 section end plate, (1) blank end plate, express organizer and LOCK-TAPE sealant
8006660		Buffer Tube: RUS LISTED - 8.5" x 22" COYOTE Closure, includes (1) 3 section end plate, (1) blank end plate, organizer, LOCK-TAPE sealant and (2) RUS listed shield connectors

UL Approved, RUS Listed, Patented

Splice Tray Installation Materials Kits	
Catalog Number	Description
80808187	40 mm heat shrink protector (12 per kit)
8003717	60 mm heat shrink protector (50 per kit)
8003381	12-Count soft elastomer splice block kit (3 per kit)
80807989	Transport tube kit (bulk) – 100 ft coil of transport tube 0.170" I.D. – will contain (6) 12 fiber ribbons
80807991	Transport tube kit (bulk) – 100 ft coil of transport tube 0.250" I.D. – will contain (12) 12 fiber ribbons
8003285	Transport tube kit, color coded, includes (6) transport tubes 0.135" I.D.

Miscellaneous Accessories	
Catalog Number	Description (mm)
80805260	Blank End Plate Kit
80805107	Strength Member Bracket Kit – two per kit
80805431	Extended Strength Member Bracket Kit – two per Kit
8003386	Heat Shield for 6.0" (152) x 22.0" (559) COYOTE Closure
8003387	Heat Shield for 8.5" (216) x 22.0" (559) COYOTE Closure
8003385	Flame-Retardant Blanket for 6.0" (152) x 22.0" (559) COYOTE Closure
8003388	Flame-Retardant Blanket for 8.5" (216) x 22.0" (559) COYOTE Closure
8003280	Transition Tube Kit Used to transition fibers from the top section of the End Plate to the Transition Compartment.
8000475	COYOTE Closure End Plate Removal Tool
80805293	Transport Tube Kit .135" ID: includes six 34" long transPort with Hardened Adapter tubes, used to bring fiber from transition compartment to splice tray
80806439	Transport Tube Kit .25" ID: includes six 34" long transPort with Hardened Adapter tubes, used to bring fiber from transition compartment to splice tray

Bonding and Grounding Kits	
Catalog Number	Description (mm)
8003281	External bond clip kit
8003360	External bond braid kit
8003463	External isolation terminal kit, includes (2) isolation terminals with 7" long #6 cable stub and splice sleeve
8003464	External isolation terminal kit, includes (2) isolation terminals with 7" long #6 cable stub and quick disconnect
8003465	Quick disconnect kit (2 per kit)
80806750	External isolation connector for COYOTE Closures
80803989	Fiber optic shield connector, RUS Listed 3M #4460-D/FO (1 per kit)
80806743	Fiber optic shield connector for up to .5" (13mm) cable O.D.
80806744	Fiber optic shield connector for .5" to .8" (13 - 20mm) cable O.D.
80806745	Fiber optic shield connector for .8" to 1.6" (20 - 41mm) cable O.D.
80805286	Adapter bracket kit for AT&T bond connector (4 per kit)
8003322	Isolated ground kit for 0.27" to .31" (7 - 8mm)
8003424	Strength member bracket isolation kit, includes (6) nylon washers and bushings
80806179	Bonding Braid, .5" W x 7" L with (2) eyelets spaced 6" apart

COYOTE Closure Splice Tray Kits			
Catalog Number	Description	6.5" x 17" or Smaller	6" x 22" or Larger
80807701	12 Count Low Profile Tray w/plastic splice block – single fusion splices	X	
80807769	12 Count Low Profile Tray (Blank) No Splice Block	X	
80806033	12 Count Standard Tray w/elastomeric splice block – Fusion & mechanical splices	X	
80806182	12 Count Standard Tray (Blank) – No Splice Block	X	
80807114	72 Count Ribbon Tray w/Elastomeric Splice Block for Mass Fusion	X	
80808160	Ribbon Tray (Blank) No splice Block	X	
8001127	36 Count Low Profile Tray w/plastic splice block – single fusion splices		X
80807531	Blank Low Profile Splice Tray		X
8001130	Blank Low Profile Splice Tray		X
80805514	36 Count Standard Tray w/elastomeric splice blocks – Fusion & mechanical splices		X
80805110	36 Count Standard Tray w/fixed rigid slots		X
80805509	36 Count Standard Tray (Blank) – No Splice Block		
80805146	144 Count Ribbon Tray w/fixed rigid slots		X
80805515	144 Count Ribbon Tray w/2 elastomeric splice blocks		X
80805510	144 Count Ribbon Tray (Blank) – No splice blocks		X

*Requires additional LITE-GRIP block kit to achieve maximum capacity.

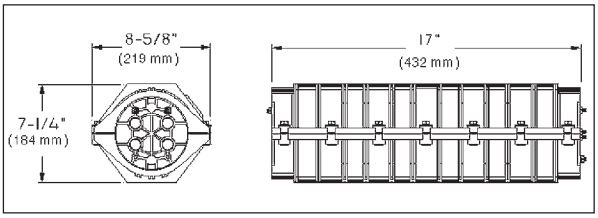
COYOTE® PUP Closure

Refinement of the Breed…

The COYOTE PUP Closure offers the perfect choice for low fiber count distribution applications involving butt and inline installations. The compact size and rugged design allow the closure to be applied in below grade, aerial and buried installations. Supported by a full line of COYOTE accessories, this closure can grow along with your network.

Key Features:

- **Compact Size:** 17" L x 8.6" W x 7.2" H (43.2 cm x 21.9 cm x 18.4 cm)
- **End plate options: 4 Port and 6 Port**
  - 6 Port provides (4) 7/8" (22 mm) ports and (2) 3/4" (19 mm) ports
  - 4 Port provides (2) 1-1/4" (32 mm) ports and (2) 1" (25 mm) ports
- **Splice Capacity:** 72 Single Fusion
  144 Ribbon/Mass Fusion
- **Configuration:** for butt or in-line applications
- Organizers designed for loose buffer tube and ribbon applications
- Size allows for mounting in small hand holes
- Provided with LOCK-TAPE™ Sealing System
- Accepts a wide variety of grommets for multi drop applications
- Permanent neoprene gasket system requires no re-entry kits
- Future cable ports provide capability for future cable installation, without end plate removal
- Integrated air valve to confirm integrity of final assembly
- Full line of mounting hardware
- **UL Approved, RUS Listed**
- Tested in accordance to Telcordia GR-771 CORE

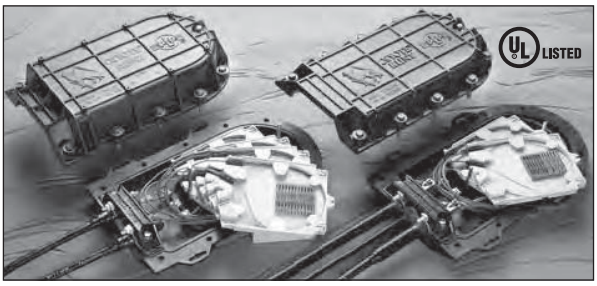


COYOTE PUP Closure Kits	
Catalog Number	**Description**
8006622	COYOTE PUP Closure Kit for Buffer Tube – includes (1) 3 section 6 Port End Plate, (1) blank end plate and organizer
8006621	COYOTE PUP Closure Kit for Unitube – includes (1) 3 section 6 Port End Plate, (1) blank end plate, transport tube kit and organizer
8006661	RUS Listed COYOTE PUP Closure Kit for Buffer Tube – includes (1) 3 section 6 Port End Plate, (1) blank end plate, organizer and (2) RUS listed shield connectors.
800011398	COYOTE PUP Closure Kit for Copper Applications with 6-Port End Plates
800011399	COYOTE PUP Closure Kit for Copper Applications with 4-Port End Plates
800010515	COYOTE PUP Closure for Buffer Tube Applications with 4-Port End Plate
Mounting Hardware Kits	
8003325	Aerial hanger bracket
8003279	Manhole support bracket
8003372	Pole/wall mount bracket (vertical)
Accessories Kits	
End Plate Grommets	See Grommet Chart in COYOTE Closure End Plate and Accessories Section
80805795	Shell Kit 6" x 17" (152 mm x 431 mm)
80805771	Buffer Tube Storage Compartment
80805775	Unitube Storage (Transition) Compartment
80805105	6 Port End Plate Kit, Includes (1) end plate assembly, (1) full set of plugs, and LOCK-TAPE™ Sealing material
80805739	4 Port End Plate Kit, Includes (1) end plate assembly, (1) full set of plugs, and LOCK-TAPE sealing material
80805260	Blank end plate kit
8003371	Future Cable Port Kit, Includes Future Cable Port for 7/8" port, plug and clamps for installation of future cable port during initial assembly
8003291	Future Cable Installation Kit, includes LOCK-TAPE Sealant, bead sealant and L-bracket for preparation of future cable up to .86" in diameter
8003289	Future Cable Port/Cable Installation Kit. Complete kit includes Cat. Nos. 8003289 and 8003291
80806037	3/4" Plug Kit (contains 2 plugs)
80806180	7/8" Plug Kit (contains 2 plugs)
80806038	1" Plug Kit (contains 2 plugs)
80806181	1-1/4" Plug Kit (contains 2 plugs)
80805293	Transport Tube Kit (contains 6 tubes)
8003280	Transition Tube Kit, used to transition fibers from top section of end plate to the transition compartment
8003418	Heat Shield for PUP Closure
Installation Materials	
80805238	C-Cement, 1 oz. tube
80805925	LOCK-TAPE Sealant 1" W x 15" L Roll

See pages 1-4 and 1-5 for Trays and Splice information.

COYOTE® RUNT Closure

Refinement of the Breed…



COYOTE RUNT Closures

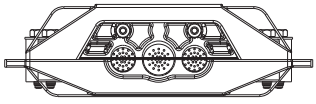
The COYOTE RUNT Closure was specifically designed for fiber distribution networks. The small compact size of the COYOTE RUNT Closures make them an ideal fit for smaller hand holes and pedestals in the last fiber mile.

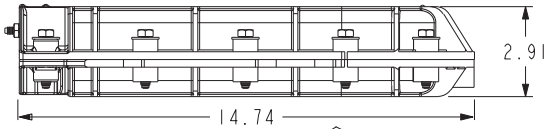
Key Features:

- **Compact Size:** 14.75" L x 8.5" W x 3" H (37.5 cm x 21.6 cm x 7.6 cm)
- **Expanded Size:** 14.75" L x 8.5" W x 4.75" H (37.5 cm x 21.6 cm x 10.8 cm)
- **Port Quantity:** 3 entrance ports; (2) 3/4" (19 mm) port and (1) 1" (25 mm) port
- **Splice Capacity:** STD: 36 Single Fusion
  72 Ribbon/Mass Fusion
  Expanded: 72 Single Fusion
  144 Ribbon/Mass Fusion
- **Application:** Loose tube or ribbon fiber applications
- Size allows for mounting in small pedestals and hand holes
- Provided with LOCK-TAPE™ Sealing System
- Accepts a wide variety of grommets for multi drop applications – See grommet chart in COYOTE Closure End Plate and Accessories section
- Permanent neoprene gasket system requires no re-entry kits
- Future cable ports provide capability for future cable installation without end plate removal
- Standard cover can be replaced with expanded to increase splice capacity
- Integrated air valve to verify integrity of final assembly
- **UL Approved and RUS Listed**
- Tested in accordance to Telcordia GR-771 CORE

COYOTE RUNT & Expanded COYOTE RUNT Closure	
Catalog Number	**Description**
COYOTE RUNT Closure Kits	
8006671	COYOTE RUNT Closure Kit, Includes LOCK-TAPE™ Sealant, Bond Brackets and transport tubing
8006794	Expanded COYOTE RUNT Closure Kit, Includes LOCK-TAPE Sealant, Bond Brackets and transport tubing
8006692	RUS Listed COYOTE RUNT Closure Kit, Includes LOCK-TAPE Sealant, Bond Brackets and transport tubing
800011397	COYOTE RUNT Closure for Copper Application
8006916	Expanded COYOTE RUNT Cross Connect
Accessory Kits	
8003407	Future Cable Port Kit. Includes 1" port, plug and clamps
8003291	Future Cable Port Installation Kit. Includes LOCK-TAPE sealant, bead sealant and L-bracket for preparation of future cable up to 1" in diameter
8003408	Future Cable Port/Installation kit. Complete kit includes catalog nos. 8003407 and 8003291
80806037	3/4" Plug kit (contains 2 plugs)
80806038	1" Plug kit (contains 2 plugs)
80806112	Transport tube kit, contains 4 tubes
8003574	Shell expansion kit includes Expanded top shell and longer studs to increase tray capacity
Installation Materials	
80805238	C-Cement, 1 oz. Tube
80805925	LOCK-TAPE Sealant, 1" W x 15' L (0.254 m x 42.6 m) roll
Bonding Acessories	
80803989	Fiber Optic Shield Connector (1 per kit) 3M#4460-F/FO
8003281	External Bonding Clip
Mounting Hardware Kits	
8003467	Aerial Hanger Bracket
8003470	Manhole Support Bracket
8003523	Wall Mount Bracket
8003571	Universal Wall/Pole Mount Bracket

See pages 1-4 and 1-5 for Trays and Splice information.

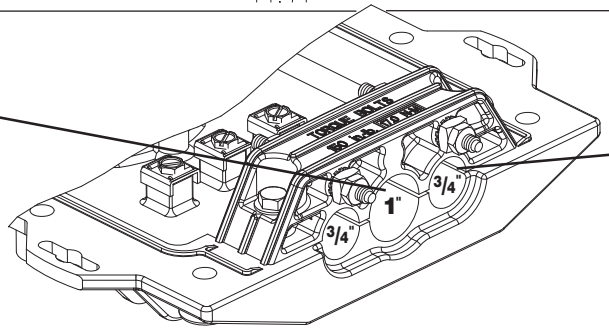




COYOTE RUNT End Plate

1" (25 mm) Ports

Available options:
- Cables up to 1.0" (25 mm) in diameter
- Future Cable Port, 0.81" (21 mm) max. cable diameter
- See Grommet table
- 1" Plug Kit (80806038)



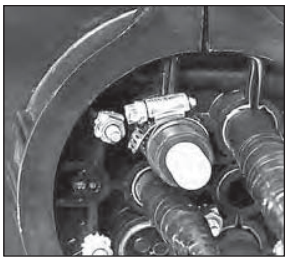
Two 3/4" (19 mm) Ports

Available options:
- Cables up to 0.75" (19 mm) in diameter
- See Grommet table
- 3/4" Plug (80806181) Two/Kit

COYOTE® Closure End Plates and Accessories

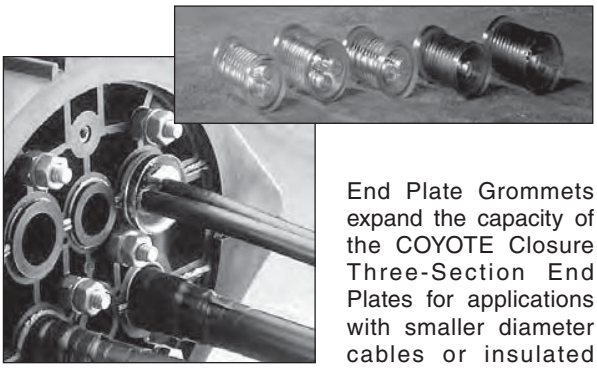
Future Cable Port Kit

When installed during the initial assembly, Future Cable Ports allow for the addition of branch cables in the future with no disruption to the existing cables and the fibers within them.



Future Cable Port Kits							
Catalog Number	Description				End Plate Usage		
		7/8"	1.0"	1-1/4"	Runt	6 Port	4 Port
8003371	Future cable port kit for 7/8"" Port, includes (1) cable port, (1) plug and (1) clamp	X				X	
8003407	Future cable port kit for 1" Port, includes (1) cable port, (1) plug and (1) clamp		X		X		X
8003409	Future cable port kit for 1-1/4" Port includes (1) cable port, (1) plug and (1) clamp			X			X
8003291	Future cable installation kit, includes LOCK-TAPE sealant, bead sealant and l-bracket	X	X	X	X	X	X
8003289	Future cable port for 7/8" port plus installation kit (8003291)	X				X	
8003408	Future cable port for 1" port plus installation kit (8003291)		X		X		
8003410	Future cable port for 1-1/4" port plus installation kit (8003291)			X			X

COYOTE Closure End Plate Grommets



End Plate Grommets expand the capacity of the COYOTE Closure Three-Section End Plates for applications with smaller diameter cables or insulated ground wires.

The grommets are manufactured from a weather-resistant urethane material that is designed to ensure a tight and permanent seal. A Silicone Sealant is provided to lubricate the grommet and cables for easy installation.

The entry holes in the multi-entry grommets are covered with a thin layer of urethane material to provide a choice of which entries are to be used for future cable entries.

See Grommet charts on pages 1-12 and 1-13.

End Plate Installation Material Kits	
Catalog Number	Description
80805105	6 Port end plate kit, includes (1) end plate assembly, (1) full set of plugs and LOCK-TAPE sealant
80805739	4 Port end plate kit, includes (1) end plate assembly, (1) full set of plugs and LOCK-TAPE sealant
80806037	Plug Kit for 3/4" ports (2 per kit)
80806180	Plug Kit for 7/8" ports (2 per kit)
80806038	Plug Kit for 1.0" ports (2 per kit)
80806181	Plug Kit for 1-1/4" ports (2 per kit)

COYOTE® Closure End Plates and Accessories

Single Port Grommets										
Catalog Number (End Color)	Hole Pattern	Entries	Factory Slit	Accepted Cable Diameter Range inches (mm)	COYOTE RUNT Standard and Expanded Port Sizes		COYOTE 6 Port End Plate Port Sizes		COYOTE 4 Port End Plate Port Sizes	
					3/4"	1"	3/4"	7/8"	1"	1-1/4"
8003394 (Green)		1	NO	.31 - .38 (7.8 - 9.6)	X		X			
8003395 (Green)		1	NO	.31 - .38 (7.8 - 9.6)				X		
8003473 (Light Blue)		1	NO	.43 - .48 (11 - 12.2)		X			X	
8003494 (Yellow)		1	NO	.48 - .53 (12.2 - 13.5)		X			X	
8003495 (Gray)		1	NO	.53 - .58 (13.4 - 14.7)		X			X	
8003496 (Light Blue)		1	NO	.43 - .48 (11 - 12.2)						X
8003497 (Yellow)		1	NO	.48 - .53 (12.2 - 13.5)						X
8003498 (Gray)		1	NO	.53 - .58 (13.4 - 14.7)						X
8003500 (Orange)		1	NO	.38 - .43 (9.6 - 11)	X		X			
8003501 (Orange)		1	NO	.38 - .43 (9.6 - 11)				X		
8003596 (Light Blue)		1	NO	.43 - .48 (11 - 12.2)	X		X			
8003597 (Light Blue)		1	NO	.43 - .48 (11 - 12.2)				X		
8003598 (Yellow)		1	NO	.48 - .53 (12.2 - 13.5)	X		X			
8003599 (Yellow)		1	NO	.48 - .53 (12.2 - 13.5)				X		
8003600 (Gray)		1	NO	.53 - .58 (13.4 - 14.7)	X		X			
8003601 (Gray)		1	NO	.53 - .58 (13.4 - 14.7)				X		
8003497 (Yellow)		1	NO	.48 - .53 (12.2 - 13.5)						X
8003671 (Light Blue)		1	YES	.43 - .48 (11 - 12.2)	X		X			
8003674 (Gray)		1	YES	.53 - .58 (13.4 - 14.7)	X		X			
8003689 (Yellow)		1	YES	.48 - .53 (12.2 - 13.5)	X		X			
8003675 (Gray)		1	YES	.53 - .58 (13.4 - 14.7)				X		

COYOTE® Closure End Plates and Accessories

Multi-Port Grommets										
Catalog Number (End Color)	Hole Pattern	Entries	Factory Slit	Accepted Cable Diameter Range inches (mm)	COYOTE RUNT Standard and Expanded Port Sizes		COYOTE 6 Port End Plate Port Sizes		COYOTE 4 Port End Plate Port Sizes	
					3/4"	1"	3/4"	7/8"	1"	1-1/4"
8003392 (Red)		2	NO	.27 - .31 (6.8 - 7.8)	X		X			
8003393 (Green)		2	NO	.31 - .38 (7.8 - 9.6)				X		
8003399 (Orange)		2	NO	.38 - .43 (9.6 - 11)		X			X	
8003608 (Light Blue)		2	NO	Corning SST (Flat Drop)	X		X			
8003730 (Light Blue)		2	YES	Corning SST (Flat Drop)	X		X			
8003536 (Black)		3	NO	.18 - .24 (4.5 - 6.1)		X			X	
800010621 (Black)		3	NO	.18 - .24 (4.5 - 6.1)				X		
8003389 (Red)		3	NO	.27 - .31 (6.8 - 7.8)				X		
8003390 (Blue)		3	NO	.20 - .27 (5.1 - 6.8)				X		
8003391 (Blue)		3	NO	.20 - .27 (5.1 - 6.8)	X		X			
8003400 (Blue)		3	NO	.31 - .38 (7.8 - 9.6)		X			X	
8003402 (Red)		3	NO	.27 - .31 (6.8 - 7.8)		X			X	
8003403 (Orange)		3	NO	.38 - .43 (9.6 - 11)						X
8003609 (Light Blue)		3	NO	Corning SST (Flat Drop)				X		
8003401 (Blue)		4	NO	.20 - .27 (5.1 - 6.8)		X			X	
8003404 (Green)		4	NO	.31 - .38 (7.8 - 9.6)						X
8003405 (Blue)		4	NO	.20 - .27 (5.1 - 6.8)						X
8003406 (Red)		4	NO	.27 - .31 (6.8 - 7.8)						X
8003575 (Brown)		4	NO	.12 - .16 (3 - 4.1)				X		
8003607 (Red)		4	NO	.27 - .31 (6.8 - 7.8)		X			X	
8003610 (Light Blue)		4	NO	Corning SST (Flat Drop)		X			X	
8003576 (Brown)		6	NO	.12 - .16 (3 - 4.1)		X			X	
8003611 (Light Blue)		6	NO	Corning SST (Flat Drop)						X
8003582 (Brown)		10	NO	.12 - .16 (3 - 4.1)						X

COYOTE® Cross-Connect and Cross-Connect/Express Closures

Refinement of the Breed…

The COYOTE Cross-Connect Closure provides long-term peace of mind.

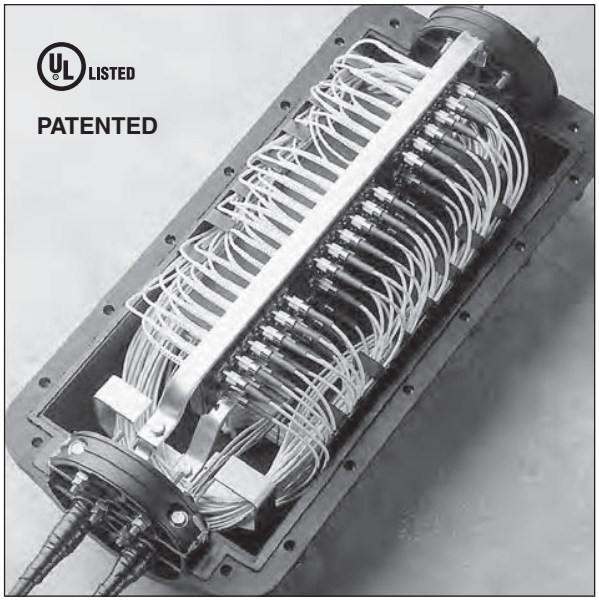
The COYOTE Cross-Connect and Cross-Connect/Express Closures allow you to splice up to 96 single fiber splices and cross connect up to 48 pigtails on both the office and distribution side. Consult PLP support for details on ribbon fiber splices. By redirecting fiber for outside plant, the COYOTE Cross-Connect Closure saves time and money: because you splice only once.

The COYOTE Cross-Connect and Cross-Connect/Express Closures are made from the same durable UV stabilized material as the COYOTE Closure.

The internal bulkhead is designed to accept a variety of connector styles. Place your order as soon as you have chosen the connector for your application and determined your pigtail requirements. This customization process saves time and money by limiting the order to only the parts required.

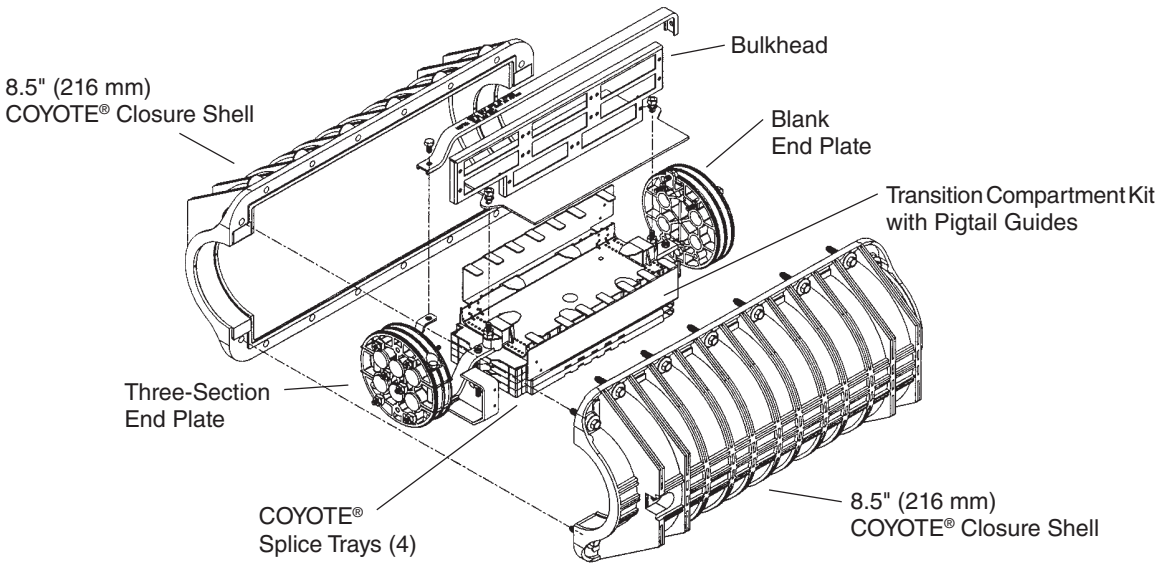
Each end plate allows for multiple entries. Isolated ground studs simplify troubleshooting, and provide additional support for strength member tie-off.

The family of COYOTE Cross Connect/Express Closures is configured to conveniently and safely store uncut buffer tubes of the feeder cable, while providing individual connectivity to the fibers of the drop cables.



The COYOTE Cross-Connect Closure is waterproof and uses the revolutionary LOCK-TAPE™ Sealant System, providing field-proven durability. The neoprene gasket also aids in keeping the closure's contents accessible again and again without a costly re-entry kit. The COYOTE Closure is tested in accordance with Bellcore GR-771-CORE.

COYOTE Cross-Connect Closure components



COYOTE® Cross-Connect and Cross-Connect/Express Closures

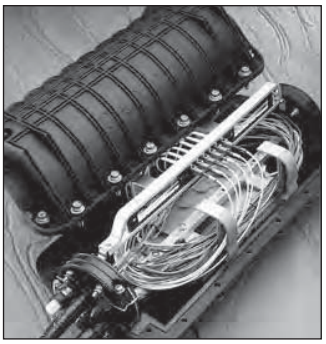
Refinement of the Breed…

Ordering Information

Included in all COYOTE Cross-Connect Closure Kits is one Three-Section End Plate, one Blank End Plate, Transition Compartment Kit with Pigtail Guides, Bulkhead, and four COYOTE Splice Trays (single fiber). ST, SC and FC Half-Loaded and Fully-Loaded Kits contain additional items which are described in the table below.

COYOTE Cross-Connect Closure	
Catalog Number	**Description**
8006572	COYOTE Cross Connect-Closure (Standard Unit) includes one three-section End Plate, one blank End Plate, transition compartment kit with pigtail guides, bulkhead, and four COYOTE Splice Trays (single fiber)
8006576	COYOTE Cross-Connect Closure – ST half loaded (24 count) includes standard unit, plus four (Bulkhead) coupler panels with six singlemode ST couplers, four field pigtail kits with ST connector (6) and transport tube, and four service pigtail kits with ST connector (6) and transport tube
8006577	COYOTE Cross-Connect Closure – ST fully loaded (48 count) includes standard unit, plus eight (Bulkhead) coupler panels with six singlemode ST couplers, eight field pigtail kits with ST connector (6) and transport tube, and eight service pigtail kits with ST connector (6) and transport tube
8006591	COYOTE Cross-Connect Closure – SC half loaded (24 count) includes standard unit, plus four (Bulkhead) coupler panels with six singlemode SC couplers, four field pigtail kits with SC connector (6) and transport tube, and four service pigtail kits with SC connector (6) and transport tube
8006592	COYOTE Cross-Connect Closure – SC fully loaded (48 count) includes standard unit, plus eight (Bulkhead) coupler panels with six singlemode SC couplers, eight field pigtail kits with SC connector (6) and transport tube, and eight service pigtail kits with SC connector (6) and transport tube
8006593	COYOTE Cross-Connect Closure – FC half loaded (24 count) includes standard unit, plus four (Bulkhead) coupler panels with six singlemode FC couplers, four field pigtail kits with FC connector (6) and transport tube, and four service pigtail kits with FC connector (6) and transport tube
8006594	COYOTE Cross-Connect Closure – FC fully loaded (48 count) includes standard unit, plus eight (Bulkhead) coupler panels with six singlemode FC couplers, eight field pigtail kits with FC connector (6) and transport tube, and eight service pigtail kits with FC connector (6) and transport tube
8006670	COYOTE Cross-Connect Closure – AP/SC fully loaded (48 count) includes standard unit, plus eight (Bulkhead) coupler panels with six singlemode AP/SC couplers, eight field pigtail kits with AP/SC connector (6) and transport tube, and eight service pigtail kits with AP/SC connector (6) and transport tube

COYOTE Cross-Connect/Express Closure	
Catalog Number	**Description**
8006916	Expanded COYOTE RUNT Cross-Connect/Express Closure, Includes one 12 count splice tray
8006920	COYOTE PUP Cross-Connect/Express Closure, with 6-port end plate, includes two 12 count splice trays
8006921	COYOTE PUP Cross-Connect/Express Closure, with 4-port end plate, includes two 12 count splice trays
8006911	6" x 22" (152 mm x 431mm) COYOTE Cross-Connect/Express Closure, with 6-port end plate, includes two 36 count splice trays
8006912	6" x 22" (152 mm x 431mm) Cross-Connect/Express Closure, with 4-port end plate, includes two 36 count splice trays
8006612	8.5" x 22" (215 mm x 431 mm) COYOTE Cross-Connect/ Express Closure, with 6-port end plate, includes two 36 count splice trays
8006915	8.5" x 22" (215 mm x 431 mm) COYOTE Cross-Connect/ Express Closure, with 4-port end plate, includes two 36 count splice trays



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Capacities Adapter				
Closure	**Max. Feeder Cable**	**No. of Adapter Plates**	**No. of Splice Trays**	**Splices per Tray**
Expanded RUNT	48-fiber	1	1	12
PUP	144-fiber	2	2	12
6" x 22"	144-fiber	3	2	36
8.5" x 22"	288-fiber	8	4	36

Adaptor Plates		
Catalog Number	**Connector**	**Adaptor**
6SMSC	SC	6
6SCAPC	SC/APC	6
12SMDSC	SC	6 Duplex
8SMSC	SC	8
6SMST	ST	6
8SMST	ST	8
6SMFC	FC	6
8SMFC	FC	8
6FCAPC	FC/APC	6
6SMLC	LC	6
12SMLC	LC	12
600	Blank	–
Catalog Number	**Description**	
80805605	(Bulkhead) Coupler Panel with six holes for ST Feed-Thru Adapters	
80805606	(Bulkhead) Coupler Panel with six holes for SC Feed-Thru Adapters	
80805607	(Bulkhead) Coupler Panel with six holes for FC Feed-Thru Adapters	

Pigtail Kits and Accessories	
Catalog Number	**Description**
8003292	Pigtail Kit with ST Singlemode Connector (6) and Transport Tube, FIELD
8003314	Pigtail Kit with SC Singlemode Connector (6) and Transport Tube, FIELD
8003316	Pigtail Kit with FC Singlemode Connector (6) and Transport Tube, FIELD
8003293	Pigtail Kit with ST Singlemode Connector (6) and Transport Tube, SERVICE
8003315	Pigtail Kit with SC Singlemode Connector (6) and Transport Tube, SERVICE
8003317	Pigtail Kit with FC Singlemode Connector (6) and Transport Tube, SERVICE
8003368	Pigtail Transition Tube Kit, includes one Transport Tube with Transition and Reducing Tubes

COYOTE® Closures for High Fiber Count Applications

Refinement of the Breed…

Larger sizes for High Fiber Count Metropolitan Networks.

COYOTE Closures are now available in 9.5" x 28" (241 mm x 711 mm) and 9.5" x 38" (241 mm x 965 mm) for high fiber count applications.

These larger COYOTE Closures use the same drillable end plates and fiber management systems as the COYOTE Splice Case (see section 2), but incorporate a new light-weight, durable non-metallic shell.

COYOTE Hi-Count Closure
Catalog Number 800010810

COYOTE Closure Kits	
Catalog Number	**Description (mm)**
Closure Kits	
800010810	9.5" x 28" (241 x 711) COYOTE Hi-Count Closure for buffer tube applications, up to 432 single fiber splices, holds up to eighteen 24-count splice trays
8003469	24-count Splice Tray for COYOTE Hi-Count Closure (heat shrink protector only)
800010897	9.5" x 28" (241 x 711) COYOTE Closure, unitube version, holds up to six 144-fiber ribbon splice trays (mass fusion), 864-fiber capacity or ten 36 fiber single fiber splice trays, 360-fiber capacity, for use with central core ribbon fiber cables
800010884	9.5" x 28" (241 x 711) COYOTE Closure, buffer tube version, holds up to six 144-fiber ribbon splice trays (mass fusion), 864-fiber capacity or ten 36 fiber single fiber splice trays, 360-fiber capacity, for use with flexible buffered ribbon fiber cables
8006765	9.5" x 38" (241 x 965) COYOTE Closure, unitube version, holds up to nine 144-fiber ribbon splice trays (mass fusion), 1296-fiber capacity or sixteen 36-fiber single fiber splice trays, 576-fiber capacity, for use with central core ribbon fiber cables
Splice Tray Kits	
80805146	144 Count Ribbon Tray w/fixed rigid slots
80805515	144 Count Ribbon Tray w/2 elastomeric splice blocks
80805514	36 Count Standard Tray w/elastomeric splice blocks – fusion & mechanical splices
8001127	36 Count Low Profile Tray w/plastic splice block – single fusion splices
Installation Accessories	
8006792	9.5" x 28" (241 x 711) COYOTE Closure Shell Kit
8006793	9.5" x 38" (241 x 965) COYOTE Closure Shell Kit

COYOTE® Retrofit Closure

Refinement of the Breed…

The ideal Closure for replacement or expansion

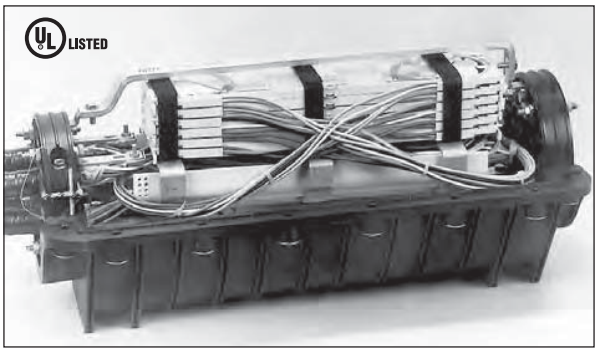
The COYOTE Retrofit Closure contains a versatile Fiber Management System which makes simple work out of retrofitting existing fiber optic closures for either closure replacement or closure capacity expansion.

Specifically, the COYOTE Retrofit Closure will accommodate the existing fiber management systems (slack buffer tubes or fiber and splice trays) from closures manufactured by Lucent Technologies (UCB Series), 3M (2178 Series) and other suppliers.

In addition to accommodating the existing splice trays and fiber storage, the COYOTE Retrofit Closure will hold up to four single fiber splice trays, six low-profile trays or up to two ribbon fiber trays. The total added capacity of the COYOTE Splice Trays is 216 single fiber, or 288 mass fusion.

As part of the family of COYOTE Closures, the COYOTE Retrofit Closure uses the permanent neoprene gasket in the shell halves and the proven LOCK-TAPE™ Sealing System for the End Plate and cable seals. These features mean that the COYOTE Retro-fit Closure will meet the same performance standards as the COYOTE Closure in aerial, underground and buried applications. The COYOTE Closure has been tested in accordance with the requirements of Telcordia GR-771-CORE.

In addition, the COYOTE Retrofit Closure uses the same accessories as available for the COYOTE Closure, including Future Cable Ports, End Plate Grommets, Aerial or Manhole Brackets and Splice Trays. See COYOTE Accessories section for catalog numbers for accessories.



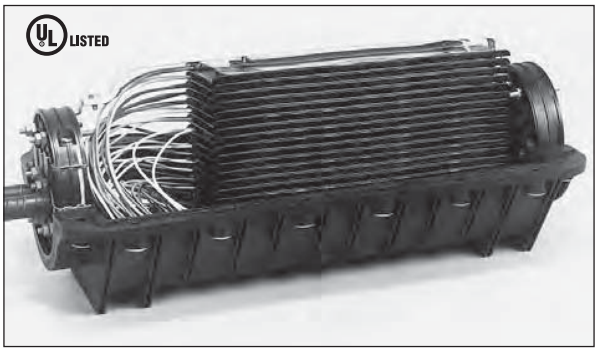
Closure Kits	
Catalog Number	**Description**
Closure Kit	
8006638	8.5" x 22.0" (216 x 559 mm) COYOTE Retrofit Closure. Includes two (2) Three-Section Six Port End Plates, hybrid Fiber Management System, Ten (10) End Plate Plugs and four (4) L-Brackets
Splice Tray Kits	
80805514	36 Count Standard Tray w/elastomeric splice blocks – Fusion & mechanical splices
80805146	144 Count Ribbon Tray w/fixed rigid slots
8001127	36 Count Low Profile Tray w/plastic splice block – single fusion splices

COYOTE® Closures (ADOBE™ Series)

Refinement of the Breed…

Low profile ADOBE™ Series Trays allow more splices to be stored in groups of 12 or 24

For applications which require a limited number of splices per splice tray, the COYOTE® Closure configured for 12-count or 24-count ADOBE Splice Trays provides the answer. The low profile ADOBE Splice Trays combined with the versatile buffer tube management system of the COYOTE Closure organize and protect the buffer tubes and fibers while maintaining maximum overall storage capacity.



See the COYOTE Closure End Plates, End Plate Grommets, Future Cable Port Kits, Mounting Brackets and other common COYOTE Closure accessories.

See page 1-4 and 1-5 for COYOTE Closure dimensions.

COYOTE Closure (ADOBE Series) Kit		
Catalog Numbers		
6-Port End Plate	4-Port End Plate	Description (mm)
8006684	8006688	6.0" x 22" (152 x 559) COYOTE Closure Kit configured for ADOBE-12 or ADOBE-24 splice trays. Includes: 1 Three-Section End Plate, 1 Blank End Plate, and Buffer Tube Storage Compartment
8006685	8006686	8.5" x 22" (216 x 559) COYOTE Closure Kit configured for ADOBE-12 or ADOBE-24 splice trays. Includes: 1 Three-Section End Plate, 1 Blank End Plate, and Buffer Tube Storage Compartment
8006806	8006820	6.0" x 22" (152 x 559) COYOTE Express Closure Kit configured for ADOBE-12 or ADOBE-24 splice trays. Includes: 1 Three-Section End Plate, 1 Blank End Plate, and Express Buffer Tube Storage Compartment
8006807	8006819	8.5" x 22" (216 x 559) COYOTE Express Closure Kit configured for ADOBE-12 or ADOBE-24 splice trays. Includes: 1 Three-Section End Plate, 1 Blank End Plate, and Express Buffer Tube Storage Compartment

ADOBE Series Splice Trays	
Catalog Number	Description
8001122	ADOBE-12 Splice Tray (12 Count) with Heat Shrink Splice Block. Includes: Tray, Cover, Tie Wraps and Felt Strips
8001096	ADOBE-12 Splice Tray (12 Count) with Molded-in Splice Block. Includes: Tray, Cover, Tie Wraps and Felt Strips
8001120	ADOBE-12 Splice Tray Blank. Includes: Tray, Cover, Tie Wraps and Felt Strips
8001121	ADOBE-24 Splice Tray (24 Count) with 2 Heat Shrink Splice Blocks. Includes: Tray, Cover, Tie Wraps and Felt Strips
8001119	ADOBE-24 Splice Tray Blank. Includes: Tray, Cover, Tie Wraps and Felt Strips

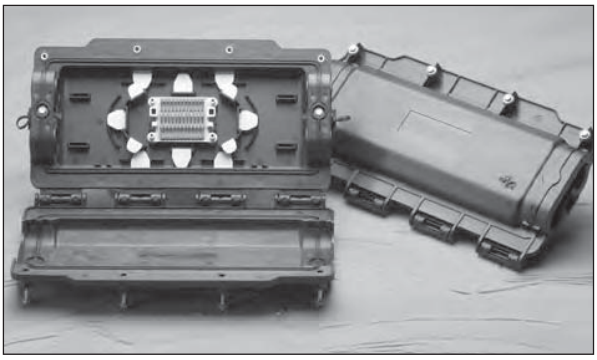
ADOBE-12 Splice Trays are 13" L x $3\frac{15}{16}$" W x $\frac{11}{32}$" H (330 x 100 x 9 mm)
ADOBE-24 Splice Trays are 13" L x $4\frac{3}{4}$" W x $\frac{11}{32}$" H (330 x 121 x 9 mm)

Capacities					
Closure (mm)	Splice Tray Catalog No	Usable Splice Protectors	Splice Capacity Per Tray	Max. Number of Trays Per Closure	Max. Closure Splice Capacity
6.0" x 22" (152 x 559)	8001122	Heat Shrink Only	12	12	144
	8001096	Protected Fusion	12	12	144
	8001121	Heat Shrink Only	24	6	144
8.5" x 22" (216 x 559)	8001122	Heat Shrink Only	12	18	216
	8001096	Protected Fusion	12	18	216
	8001121	Heat Shrink Only	24	12	288

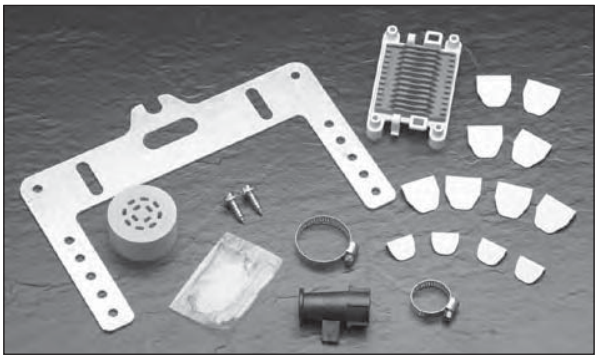
Note: Maximum number of trays per closure and closure capacity for COYOTE Express Closure Kits (8006806, 8006807, 8006819 and 8006820) are reduced by 50%.

COYOTE® Aerial Drop Closure

A Simple Solution, a Breed Apart



The COYOTE® Aerial Drop Closure



Kit Components

Key Features:

- Compact Size – 9" W x 16.5" L x 2.5" D (228 x 419 x 63.5 mm)
- Feature rich and value priced solution
- Easy to install – no special tools required
- Easy-to-use grommet sealing system
- Includes splicing platform
- Accepts 2 splice platforms for a splice capacity of 24 fibers
- Capable of higher splice capacities with alternative splice holders. Consult a PLP representative for details.
- Includes universal mounting bracket with features to permit pole mounting with straps, strand mounting with strand clamps or suspension from “J” hooks secured to a pole.

PLP Reliability

The COYOTE Fiber Optic Aerial Drop Closure is manufactured in accordance with ISO 9001-2008 procedures to assure quality and is backed by the experience and field support that Preformed Line Products has been noted for in fiber optic closures for over 20 years.

COYOTE Aerial Fiber Drop Closure Kits	
Catalog Number	**Description**
COYDAC03	COYOTE Aerial Fiber Drop Closure Kit Includes: Cover, Base and components shown above
COYOTE Splice Platform Kits	
8003792	Splice Plate Kit – 12 Count Splice Block – Single Fusion
8003751	Splice Plate Kit – 12 Count Splice Block – Unprotected Single Fusion
8003793	Splice Plate Kit – 24 Count LITE-GRIP Splice Block – Single Fusion
8003794	Splice Plate Kit – 72 Count LITE-GRIP Splice Block – Ribbon
COYOTE Aerial Fiber Drop Accessory Kits	
80808256	12 Entry Grommet Kit with Bobbin
8003753	End Plate Kit – includes (2) End Plates, Bolts and Tether
8003777	Strength Member Bracket Kit for Single Cable Entry
80808257	Fiber Organizer Clip Kit
8003775	Hanger Bracket Kit

COYOTE® Taut Closure

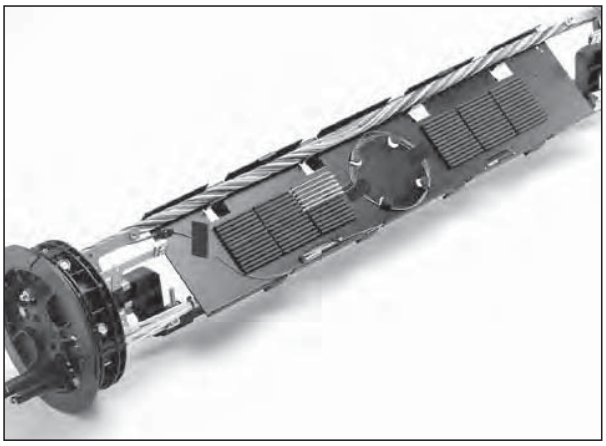
Refinement of the Breed…

A single closure that simplifies branch cable taps or repairs of taut fiber optic cables.

The 6.5" x 38" (165 x 965 mm) COYOTE Taut Closure organizes and protects up to 12 branch splices in either or both directions, or up to 12 pairs of fiber splices for repairing damaged cable.

The end plates are the same innovative design used in the COYOTE Dome Closure and employ the easy-to-use grommet system which can also be used in the COYOTE Taut Closure.

The unique mainframe assembly protects the fibers being "expressed" through the closure and organizes the splices on those fibers being spliced to the branch cables. Slack fibers from the branch cables or slack fibers between repair splices are stored in the center region of the mainframe. The entire splice is protected by our rugged plastic COYOTE shells.



Catalog Number	Description
8006947	6.5" x 38" (165 x 965 mm) COYOTE Taut Closure Kit

COYOTE® Silicone Grommet Kits

PLP Feature Focus
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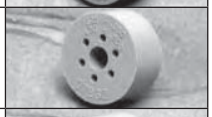
Film available at www.preformed.com

COYOTE® Silicone Grommet Kits for use in COYOTE GLC, LCC, Aerial Drop, In-Line RUNT, Terminal, Dome and Taut Closures			
Catalog Number	**Cable Range Inches (mm)**	**Description**	**Grommets**
8003701*	.42 - .60 (10.7 - 15.2) .60 - .85 (15.2 - 21.6)	2-hole grommet	
8003691	.40 - .60 (10.7 - 15.2)	1-hole grommet	
8003692	.60 - .85 (15.2 - 21.6)	1-hole grommet	
8003693	.85 - 1.0 (21.6 - 25.4)	1-hole grommet	
8003694	1.0 - 1.25 (25.4 - 31.6)	1-hole grommet	
8003663	.42 - .60 (10.7 - 15.2)	2-hole grommet	
8003990	.50 - .60 (12.7 - 15.2) .125 - .25 (3.2 - 6.4) and Flat Drop	4-hole grommet	
8003664	.30 - .43 (7.6 - 10.9)	4-hole grommet	
8003989	Flat Drop Only	4-hole grommet	
8003665	.125 - .25 (3.2 - 6.4) and Flat Drop	6-hole grommet	
8003676	.42 - .60 (10.7 - 15.2) .125 - .25 (3.2 - 6.4) and Flat Drop	7-hole grommet	
8003677	.125 - .25 (3.3 - 6.4) and Flat Drop	8-hole grommet	
8003796	Flat Drop Only	12-hole grommet	

Note: Grommet Kit contains (1) Grommet, (1) Cable Measure Tape, (2) Silicone Lubricant Packs, (1) Set of Plugs (where applicable)
*8003701 is not recommended for 9.5" Dome and GLC Closures

COYOTE® Drop Cable Closure

Refinement of the Breed…

The perfect solution to the splicing or repair of low fiber count drop cables

The COYOTE Drop Cable Closure is a re-enterable (not re-usable), encapsulant filled closure for splicing buried fiber optic drop cables (up to 6-fiber).

The COYOTE Drop Cable Closure will accept either dielectric or shielded fiber optic drop cables with an outside diameter of up to 0.5" (13 mm).

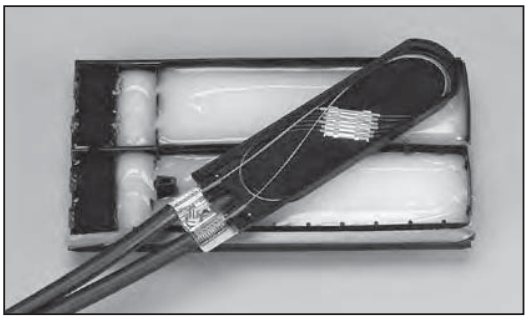
Each Closure body is factory filled with field proven (over 14 years) POLY-BEE™ Sealant to provide a protective barrier around the sealed splice tray assembly.

The sealed splice tray assembly has an integral bond clamp which provides both conductivity between the cable shields and cable restraint.

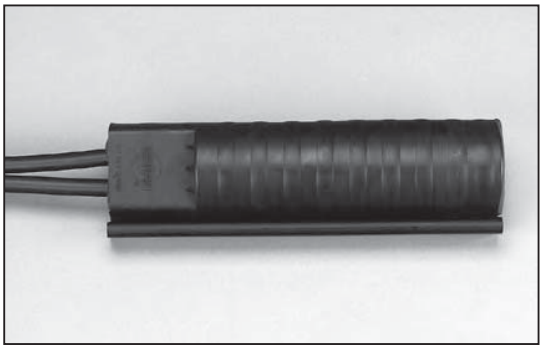
The splice block on the splice tray assembly holds up to six heat-shrink fusion splice protectors. Six 40 mm long protectors are provided.

Assembly is simple:
- Prepare & secure cables to splice tray
- Splice fibers
- Seal splice tray
- Place splice tray in encapsulated closure
- Secure closure with closing clamp

Unfilled version for aerial fiber optic drop cables (up to 6-fiber) are available. Cable entries and closure seams are still sealed to prevent the ingress of wind-driven rain and dust.



Catalog Number	Description
8006876	COYOTE Drop Cable Closure, includes sealed splice tray assembly and six (6) heat shrink splice protectors.
8006914	COYOTE Drop Cable Closure unfilled includes splice tray assembly & six (6) heat shrink splice protectors.



Length (mm)	Height (mm)	Width (mm)
12" (305)	3" (76)	3.5" (89)

PREFORMED LINE PRODUCTS

Section 2 – COYOTE® Splice Case Series

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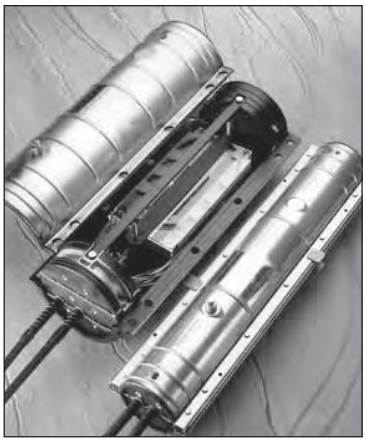
COYOTE® Splice Case

Value conscious and benefit-packed: The COYOTE Splice

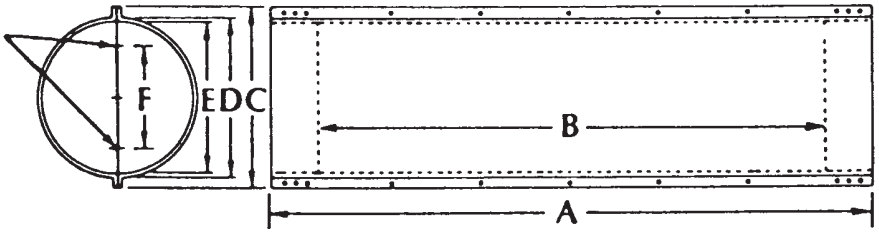
The COYOTE Splice Case combines the field-proven performance of the PREFORMED™ Splice Case (stainless steel) with the high capacity and craft-friendly COYOTE Fiber Management System to create a feature-packed splice case for demanding applications.

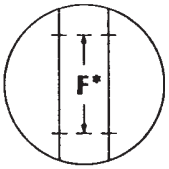
The COYOTE Splice Case family is designed for all applications (aerial, underground, buried and vault) and for all fiber optic types (loose tube, unitube, ADSS and OPGW). With sizes ranging from 4" x 25" (102 x 635 mm) to 12.5" x 38" (318 x 965 mm) and splicing capacities ranging from 24 fibers to 1728 fibers, nearly any splicing network configuration can be accommodated.

COYOTE® FIBER OPTICS



Marks on End Plates denote usable area of cable entrance holes.





Three-Section End Plates

Dimensions (mm)						
Splice Case	**A**	**B**	**C**	**D**	**E**	**F**
4.0" x 25"	25.8" (655)	20.3" (516)	6.0" (152)	4.5" (114)	4.0" (102)	2.2" (56)
6.5" x 22"	22.0" (558)	16.2" (412)	9.25" (235)	7.0" (178)	6.5" (165)	4.1" (104)
6.5" x 28"	28.4" (721)	22.7" (577)	9.25" (235)	7.0" (178)	6.5" (165)	4.1" (104)
6.5" x 38"	38.4" (975)	32.7" (831)	9.25" (235)	7.0" (178)	6.5" (165)	4.1" (104)
8.0" x 28"	28.4" (721)	22.7" (567)	10.5" (267)	8.5" (216)	8.0" (203)	5.6" (142)
8.0" x 38"	38.4" (975)	32.7" (831)	10.5" (267)	8.5" (216)	8.0" (203)	5.6" (142)
9.5" x 28"	28.4" (721)	21.6" (549)	12.5" (318)	10.0" (254)	9.5" (241)	7.1" (180)
9.5" x 38"	38.4" (975)	31.6" (813)	12.5" (318)	10.0" (254)	9.5" (241)	7.1" (180)
9.5" x 45"	45.2" (1148)	38.6" (980)	12.5" (316)	10.0" (254)	9.5" (241)	7.1" (180)
12.5" x 28"	28.4" (721)	21.6" (549)	15.5" (394)	13.0" (330)	12.5" (318)	9.3" (236)
12.5" x 38"	38.4" (975)	31.6" (803)	15.5" (394)	13.0" (330)	12.5" (318)	9.3" (236)

COYOTE® Splice Case

COYOTE Splice Case Ordering Chart	
Catalog Number	**Description (mm)**
8006548	4"x 25" (102 x 635), for unitube applications, includes two (2) Two-Section End Plates, and one (1) Mainframe.
8006549	4"x 25" (102 x 635), DLX, for unitube applications, includes one (1) Two-Section End Plate with three grounding inserts, one (1) Two-Section End Plate, one (1) Mainframe, one (1) Transport Tube Kit, and three (3) "L" Brackets.
8006550	6.5"x 22" (165 x 559), for unitube applications, butt splice only, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate, one (1) Transition Assembly, and one (1) Transport Tube Kit.
8006551	6.5"x 22" (165 x 559), DLX, for unitube applications, butt splice only, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate with six grounding inserts, one (1) Transition Assembly, one (1) Transport Tube Kit, and four (4) "L" Brackets.
8006615	6.5"x 22" (165 x 559), for buffer tube applications, butt splice only, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate, and one (1) Storage Assembly.
8006616	6.5"x 22" (165 x 559) DLX, for buffer tube applications, butt splice only, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate with six grounding inserts, one (1) Storage Assembly, and four (4) "L" Brackets.
8006552	6.5"x 28" (165 x 711), for unitube applications, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate, one (1) Transition Assembly, and one (1) Transport Tube Kit.
8006553	6.5"x 28" (165 x 711) DLX, for unitube applications, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate with six grounding inserts, one (1) Transition Assembly, one (1) Transport Tube Kit, and four (4) "L" Brackets.
8006617	6.5"x 28" (165 x 711), for buffer tube applications, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate, and one (1) Storage Assembly.
8006618	6.5"x 28" (165 x 711) DLX, for buffer tube applications, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate with six grounding inserts, one (1) Storage Assembly, and four (4) "L" Brackets.
8006656	6.5"x 28" (165 x 711) DLX - Express version, for buffer tube applications, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate with six grounding inserts, one (1) Storage Assembly, and four (4) "L" Brackets.
8006625	8"x 28" (203 x 711) DLX, for unitube applications, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate with six grounding inserts, one (1) Transition Assembly, one (1) Transport Tube Kit, and four (4) "L" Brackets.
8006626	8"x 28" (203 x 711) DLX, for buffer tube applications, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate with six grounding inserts, one (1) Storage Assembly, and four (4) "L" Brackets.
8006657	9.5"x 28" (241 x 711) DLX, for unitube applications, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate with six grounding inserts, one (1) Transition Assembly, and one (1) Transport Tube Kit, and four (4) "L" Brackets.
8006627	9.5"x 28" (241 x 711) DLX, for buffer tube applications, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate with six grounding inserts, one (1) Storage Assembly, and four (4) "L" Brackets.
8006755	9.5"x 38" (241 x 975) DLX, for unitube/buffer tube applications, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate with six grounding inserts, one (1) Transition/Buffer Storage Assembly, and four (4) "L" Brackets.
8006628	9.5"x 45" (241 x 1143) DLX, for buffer tube applications, includes one (1) Two-Section End Plate, one (1) Three-Section End Plate with six grounding inserts, one (1) Dual Buffer Tube Storage Assembly, and four (4) "L" Brackets.
8006753	12.5"x 28" (318 x 711) DLX for buffer tube applications, includes one (1) assembled Three-Section End Plate, one (1) Three-Section End Plate with eight grounding inserts, one (1) Dual Tube Storage Assembly, and six (6) "L" Brackets.
8006752	12.5"x 28" (318 x 711) DLX for unitube applications, includes one (1) assembled Three-Section End Plate, one (1) Three-Section End Plate with eight grounding inserts, one (1) Dual Transition Assembly, one (1) Transport Tube Kit and six (6) "L" Brackets.
8006702	12.5"x 38" (318 x 975) DLX, for buffer tube applications, includes one (1) assembled Three-Section End Plate, one (1) Three-Section End Plate with eight grounding inserts, one (1) Dual Tube Storage Assembly, and six (6) "L" Brackets.
8006703	12.5"x 38" (318 x 975) DLX, for unitube applications, includes one (1) assembled Three-Section End Plate, one (1) Three-Section End Plate with eight grounding inserts, one (1) Dual Transition Assembly, one (1) Transport Tube Kit and six (6) "L" Brackets.

COYOTE® Splice Case Capacities

Splice Tray Catalog Number	Description	Useable Connectors	Type	Splice Capacity Per Tray	Max. No. of Trays Per Closure	Max. Closure Splice Capacity
4"x 25" (102 x 635 mm) COYOTE Splice Case						
8001021	12 Count Single Fiber	Protected Fusion Single Mechanical	S	12	2	24
8001044	18 Count Single Fiber	Protected Fusion Single Mechanical	S	18	2	36
8001041	12 Count Mechanical	3M Fibrlok Siecor Lightbridge	S	12	2	24
8001098	12 Count Mechanical	3M Fibrlok Siecor Lightbridge	A	12	2	24
8001085	Mass Fusion	Protected Mass Fusion	S	36	2	72
6.5"x 22" (165 x 559 mm) and 6.5"x 28"(165 x 711 mm) COYOTE Splice Case						
80805514	36 Count Elastomer Blocks	Protected Fusion Single Mechanical		36	5	180
8001127	36 Count	Single Fusion		36	6	216
80805146	Ribbon Fiber Splice Tray	Protected Mass Single Mechanical		144	2	288
8"x 28" (203 x 711 mm) COYOTE Splice Case						
80805514	36 Count Elastomer Blocks	Protected Fusion Single Mechanical		36	6	216
8001127	36 Count	Single Fusion		36	8	288
80805146	Ribbon Fiber Splice Tray	Protected Mass Fusion		144	4	576
9.5"x 28" (241 x 741 mm) COYOTE Splice Case						
80805514	36 Count Elastomer Blocks	Protected Fusion Single Mechanical		36	10	360
8001127	36 Count	Single Fusion		36	13	468
80805146	Ribbon Fiber Splice Tray	Protected Mass Fusion		144	6	864
9.5"x 38" (241 mm x 1 m) COYOTE Splice Case						
80805514	36 Count Elastomer Blocks	Protected Fusion Single Mechanical		36	20	720
8001127	36 Count	Single Fusion		36	26	936
80805146	Ribbon Fiber Splice Tray	Protected Mass Fusion		144	9	1296
9.5"x 45" (241 mm x 1.1 m) COYOTE Splice Case						
80805514	36 Count Elastomer Blocks	Protected Fusion Single Mechanical		36	18	648
8001127	36 Count	Single Fusion		36	24	864
12.5"x 28" (318 mm x 741 mm) COYOTE Splice Case						
80805514	36 Count Elastomer Blocks	Protected Fusion Single Mechanical		36	16	576
8001127	36 Count	Single Fusion		36	21	756
80805146	Ribbon Fiber Splice Tray	Protected Mass Fusion		144	10	1440
12.5"x 38" (318 mm x 1 m) COYOTE Splice Case						
80805514	36 Count Elastomer Blocks	Protected Fusion Single Mechanical		36	24	864
8001127	36 Count	Single Fusion		36	32	1152
80805146	Ribbon Fiber Splice Tray	Protected Mass Fusion		144	12	1728

(A) signifies an ADOBE™ Splice Tray
(S) signifies a standard thermal-formed splice tray
(M) signifies a metallic splice tray
NOTE: Maximum number of trays per closure and closure capacity for 6.5" x 28" DLX Express version (Cat. No. 8006656) are reduced by 50 percent.

COYOTE® Splice Case Accessories

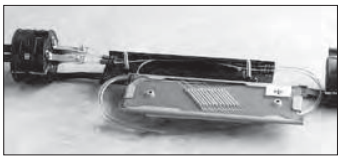
End Plates (one per kit)	
Catalog Number	**Description (mm)**
8003277	4.0" (102) Standard Two-Section End Plate Kit
80804985	4.0" (102) DLX Two-Section End Plate Kit with three (3) Grounding Inserts and three (3) "L" Brackets.
8003274	4.0" (102) DLX Two-Section End Plate Kit with one (1) 1/2" (13) factory-installed Cable Ports [0.56 (14 mm) max. cable], three (3) Grounding Inserts, and three (3) "L" Brackets.
8003275	4.0" (102) DLX Two-Section End Plate Kit with two (2) 1/2" (13) factory-installed Cable Ports [0.56 (14 mm) max. cable], two (2) Grounding Inserts, and two (2) "L" Brackets. (No space for field-drilled cable entries.)
8003252	6.5" (165) Standard Two-Section End Plate Kit
8000361	6.5" (165) Standard Three-Section End Plate Kit
80804986	6.5" (165) DLX Three-Section End Plate Kit with six (6) Grounding Inserts and four (4) L-Brackets.
8003282	8.0" (203) Standard Two-Section End Plate Kit
8003396	8.0" (203) DLX Three-Section End Plate Kit with six (6) Grounding Inserts and four (4) L-Brackets.
8003283	9.5" (241) Standard Two-Section End Plate Kit
8003397	9.5" (241) DLX Three-Section End Plate Kit with six (6) Grounding Inserts and four (4) L-Brackets.
8003537	12.5" (318) DLX Three-Section End Plate Kit with eight (8) Grounding Inserts and six (6) L-Brackets.

Future Cable Port Kits

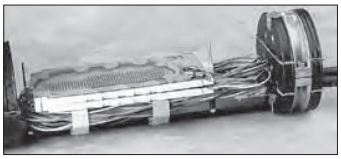
Future Cable Port COYOTE Splice Cases (all sizes)	
Catalog Number	**Description (mm)**
8003412	3/4"(19) Future Cable Port Kit, Includes: Future Cable Port, Plug and Clamp. For installation of Future Cable Port during initial assembly of end plate. Max. Cable is 0.8"(20) diameter.
8003413	1"(25) Future Cable Port Kit, includes: Future Cable Port, Plug and Clamp. For installation of Future Cable Port during initial assembly of end plate. Max. Cable is 1.0"(25) diameter.
8003420	Future Cable Port Installation Kit, Includes: LOCK-TAPE™ Sealant, Bead Sealant, L-Bracket and Bolt. Required for preparation of Future Cable.
8003421	3/4"(19) Future Cable Port/Cable Installation Kit. Complete Kit includes: Catalog #800412 and Catalog # 8003420
8003422	1"(25) Future Cable Port/Cable Installation Kit. Complete Kit Includes: Catalog #8003413 and Catalog # 8003420

Future Cable Ports allow the addition of branch cables

Unitube and Buffer Tube Storage Compartments	
Catalog Number	**Description (mm)**
80805150	Transition Assembly for 4.0" (102) x 25" (635) COYOTE Splice Case
80805690	Transition Compartment Kit for 6.5" (165) x 22" (559) COYOTE Splice Case
80805691	Loose Buffer Tube Storage Assembly for 6.5" (165) x 22" (559) COYOTE Splice Case
80805571	Transition Compartment Kit for 6.5" (165) x 28" (635) COYOTE Splice Case
80805574	Loose Buffer Tube Storage Assembly for 6.5" (165) x 28" (635) COYOTE Splice Case
80805913	Loose Buffer Tube (Express) Storage Assembly for 6.5" (165) x 28" (635) COYOTE Splice Case.
80805812	Transition Compartment Kit for 8.0" (203) x 28" (635) COYOTE Splice Case
80805814	Loose Buffer Tube Storage Assembly for 8.0" (203) x 28" (635) COYOTE Splice Case
80805815	Loose Buffer Tube Storage Assembly for 9.5" (241) x 28" (635) COYOTE Splice Case
80805915	Transition Compartment Kit for 9.5" (241) x 28" (635) COYOTE Splice Case
80805801	Dual Loose Buffer Tube Storage Assembly for 9.5" (241) x 45" (1.1) COYOTE Splice Case
80806629	Loose Buffer Tube Storage Assembly for 12.5" (318) x 28" (635) COYOTE Splice Case
80806704	Transition Compartment Kit for 12.5" (318) x 28" (635) COYOTE Splice Case



Transition Compartment and Splice Tray for a 4" x 25" (102 x 635 mm) COYOTE Splice Case



Buffer Tube Management System for a 6.5" x 22" (165 x 559 mm) COYOTE Splice Case

End Plate Grommet Kits for Drillable End Plates

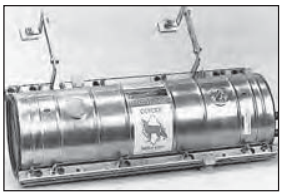
COYOTE End Plate Grommet Kits – 9.5" (241) and 12.5" (318) Only				
Catalog Number	**Hole Pattern**	**Entries**	**Accepted Cable Diameter Range Inches (mm)**	**Blade Size**
8003622 (Blue)		4	.20 - .27 (5 - 7)	H
8003623 (Red)		4	.27 - .31 (7 - 8)	H
8003586 (Green)		4	.31 - .38 (8 - 10)	J
8003588 (Green)		6	.31 - .38 (8 - 10)	K
8003583 (Orange)		2	.38 - .43 (10 - 11)	G
8003584 (Orange)		4	.38 - .43 (10 - 11)	J
8003573 (Orange)		5	.38 - .43 (10 - 11)	K
8003585 (Light Blue)		4	.43 - .48 (11 - 12)	J
8003660 (Light Blue)		4	Corning SST	G

COYOTE® Splice Case Accessories

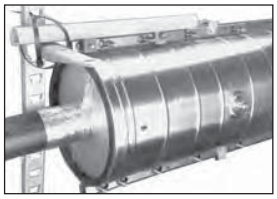
Mounting Bracket/Supports	
Catalog Number	**Description**
8003426	Adjustable Aerial Hanger Bracket Kit
8003156	Aerial Strand Clamps (set of two)
8003527	Manhole Support Kit (both ends of Splice Case)
8003472	Vertical Mounting Bracket for 6.5", 8" and 9.5" Splice Cases

Installation Materials	
Catalog Number	**Description (mm)**
80805238	C-Cement, 1 oz. tube
80802377	C-Cement, 4 oz. can
80803448	Moisture Blocking Sealant, 3 oz. tube
8003490	Felt Strips (blue) 1-1/8" (29) x 9" (229), 6 strips
80802567	LOCK-TAPE™ Sealant, 3/4" W x 12' L (19 W x 3.7 L)
80801954R	LOCK-TAPE™ Sealant, 2-1/2" W x 12' L (64 W x 3.7 L)
80801955R	LOCK-TAPE™ Sealant, 3" W x 12' L (76 W x 3.7 L)
8003092	Fusion Splice Protectors, Non-heat Shrink 250/250 Micron, pack of 20
8003425	Mass Fusion Splice Protectors, pack of 12
8003509	60 mm Heat Shrink Splice Protectors, pack of 12

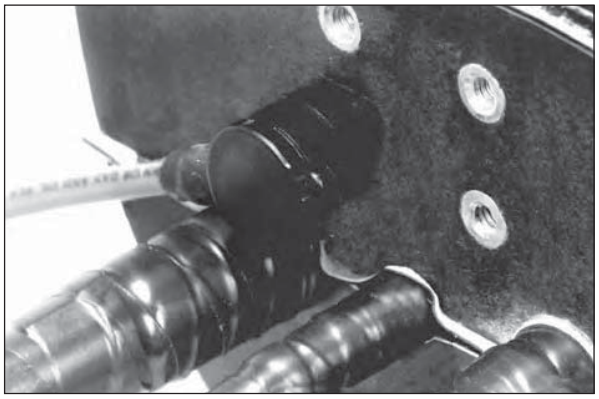
Bonding and Grounding Materials	
Catalog Number	**Description (mm)**
8003416	Isolated Strength Member Bracket Kit, two per kit.
8003463	External Isolation Terminal Kit, Includes: two (2) Isolation Terminals with 7" (178) long, #6 Cable Stub and Splice Sleeve.
8003464	External Isolation Terminal Kit, Includes: two (2) Isolation Terminals with 7" (178) long, #6 Cable Stub and Quick Disconnect.
8003465	Quick Disconnect Kit, two per kit
80806759	External Isolation Connector for COYOTE Splice Cases
80803989	Fiber Optic Shield Connector, 3M #4460/D/FO, 1 each, RUS Listed
80806743	Fiber Optic Shield Connector [up to 0.5" (13) cables]
80806744	Fiber Optic Shield Connector [up to 0.5"-0.8" (13-20) cables]
80806745	Fiber Optic Shield Connector [up to 0.8"-1.6" (20-41) cables]
8003281	External Bond Clip Kit, two per kit
80806179	Bonding Braid, 0.5" x 7" (13 x 178) with eyelets spaced at 6" (152) apart



Adjustable Aerial Hanger Brackets



Manhole Support Kit



External Isolation Terminal

Misc. Accessories	
Catalog Number	**Description (mm)**
8003175	Strength Member Bracket Kit, four per kit
8003176	Transport Tube Kit (8 tubes, 34" [864] long)
8003280	Transition Tube Kit, used to transition fiber from the top seam of the End Plate to the transition compartment
8003411	Green Sealant Kit (required for OPGW applications)
80806439	Transport Tube Kit (0.25" [6] O.D. Tube, 34" [864] long), includes six tubes, used for 24-fiber ribbon applications
80805937	Air Valve for Stainless Steel Cases

COYOTE® Splice Case – Tools

Power End Plate Cutter and Accessories		
Catalog Number	**Description**	**Standard Carton Qty.**
8000452	Power End Plate Cutter (only)	1 Unit
8000454	Power End Plate Cutter and Case with Blade Kit	1 Kit
8000455	Power End Plate Cutter with Blade Kit	1 Kit
8000445	Carrying Case	1 Unit
8000453	Blade Kit (Blades A-Z)	1 Set
8000417A-DD	Individual Blades (A-DD)	1 Unit
80803377	Cutting Blade Adapter	1 Unit
80851659	Electric Drill With Socket	1 Unit
80801944	Drill Motor Adapter (For other than PREFORMED Drill)	1 Unit
8000468	Power End Plate Cutter Lift Kit, allows drilling of 9.5" and 12.5" End Plates with future cable entry ports	1 Set

Power End Plate Cutter Kit – 8000454

The Power End Plate Cutter comes standard with 26 blades from .375" (10 mm) up to 3.50" (89 mm) in diameter (4 additional blades for larger sizes are available for holes up to 4.00" [102 mm]). It provides a fast and convenient way for cutting precise cable access holes in the End Plates of PREFORMED re-enterable closures: Splice Case, FIBERLIGN Fiber Safe and FIBERLIGN Splice Case.

The complete Power End Plate Cutter Kit includes:

1. Power End Plate Cutter for use in drilling 4" to 12.5" (102 mm to 318 mm) PREFORMED End Plates.
2. Complete blade kit. Includes blades A through Z, drill motor adapter, CABLE Mea-SURE™ Tape, key for chuck adapter, areas for storing other parts and a complete label guide for reordering parts, all stored in a plastic case.
3. Metal Carrying Case for Power End Plate Cutter.

Carrying Case (8000445)

Blade Kit (8000453)

Power End Plate Cutter (8000452)

80801151

80803967

80803968

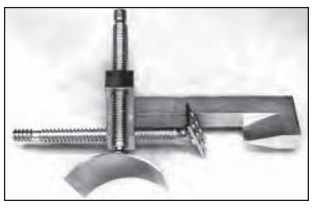
80803969

80801150

Socket Tool Kit Accessories		
Catalog Number	**Description**	**Standard Carton Qty.**
8000428	Socket tool kit (with torque wrench)	1 Unit
8000420	Socket tool kit (without torque wrench)	1 Kit
80803967	Torque wrench with ratchet head 3/8" drive	1 Unit
80803968	Ratchet type socket wrench 3/8" drive	1 Unit
80801150	7/16" deep well socket	1 Unit
80801151	1/2" deep well socket	1 Unit
80803969	6" extension	1 Unit

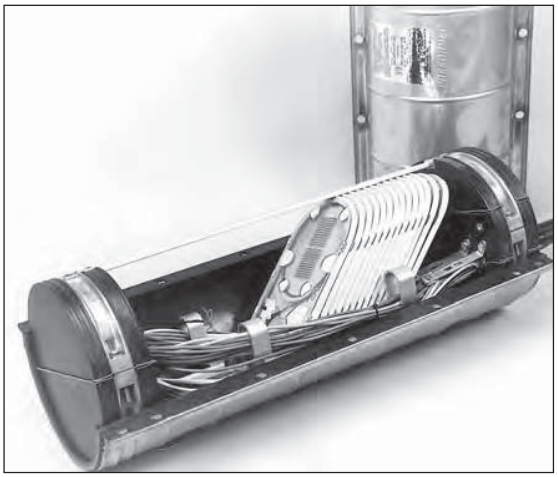
End Plate Removal Tool

The End Plate Removal Tool is made of durable galvanized steel. It is specially designed to facilitate End Plate removal from the cable during procedures that necessitate new End Plates, i.e. for use with the PREFORMED Splice Case.



Catalog Number 8000432

COYOTE® Hi-Count Splice Case



Up to 432 Single Fiber Splices in a Compact Size Splice Case

The **COYOTE Hi-Count Fiber Splice Case** uses a unique 24-count Splice Tray and Fiber Management System to accomodate up to 432 single fiber splices in a 9.5" x 28" Splice Case (241 x 711 mm).

The 24-Count Splice Tray utilized in the COYOTE Hi-Count Splice Case is specifically designed for the larger 24-Count buffer tubes commonly used in high count loose tube fiber cables. The splice blocks on the tray accept heat shrink protected fusion splices only.

Up to 18 splice trays are stored in the organizer assembly in a tilted arrangement to provide maximum storage capacity. Each splice tray snaps out of the organizer for easy access.

See pages 2-5 through 2-7 for End Plate, Future Cable Port Kits, Mounting Brackets and other common COYOTE Splice Case accessories and tools.

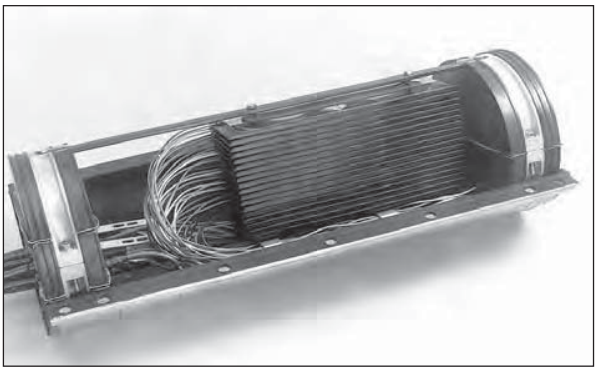
See page 2-2 for COYOTE Splice Case Dimensions.

COYOTE Hi-Count Splice Case Kit	
Catalog Number	**Description (mm)**
8006683	9.5" x 28" (241 x 711) COYOTE Hi-Count Splice Case Kit, Includes one Three-section DLX End Plate, one Two-section End Plate, Buffer Tube Storage Assembly and four L-Brackets

24-Count Splice Tray	
Catalog Number	**Description**
8003469	24-Count Splice Tray for Hi-Count COYOTE Splice Case (Heat-Shrink Protector Only)

Splice Tray: 9-1/4" L x 5-3/4" W x 11/32" H (235 L x 146 W x 9 H mm)					
Closure Catalog Number	**Splice Tray Catalog Number**	**Usable Splice Protectors**	**Splice Capacity Per Tray**	**Max. Number of Trays Per Closure**	**Max. Closure Splice Capacity**
8006683	8003469	Heat Shrink Only	24	18	432

COYOTE® Splice Case (ADOBE™ Series)



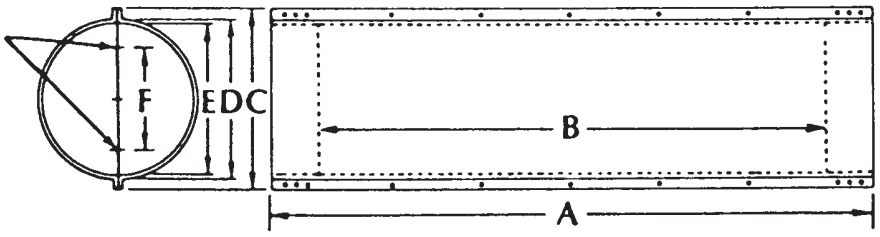
Low profile ADOBE™ Series Splice Trays allow more splices to be stored in groups of 12 or 24

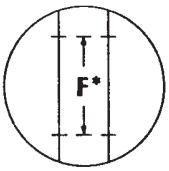
For applications which require a limited number of splices per splice tray, the COYOTE Splice Case configured for 12-Count or 24-Count ADOBE Splice Trays provides the answer. The low profile ADOBE Splice Trays combined with the versatile buffer tube management system of the COYOTE Splice Case, organize and protect the buffer tubes and fibers while maintaining maximum overall storage capacity.

See pages 2-5 through 2-7 for End Plate, Future Cable Port Kits, Mounting Brackets and other common COYOTE Splice Case accessories and tools.

COYOTE Splice Case (ADOBE Series) Kit	
Catalog Number	**Description (mm)**
8006687	6.5" x 28" (165 x 711) COYOTE Splice Case Kit, configured for ADOBE-12 or ADOBE-24 Splice Trays. Includes: One Three-Section DLX End Plate, One Two-Section End Plate, Buffer Tube Storage Compartment and Four L-Brackets.
8006689	8.0" x 28" (203 x 711) COYOTE Splice Case Kit, configured for ADOBE-12 or ADOBE-24 Splice Trays. Includes: One Three-Section DLX End Plate, One Two-Section End Plate, Buffer Tube Storage Compartment and Four L-Brackets.
8006839	8.0" x 28" (203 x 711) COYOTE Express Splice Case Kit, configured for ADOBE-12 or ADOBE-24 Splice Trays. Includes: One Three-Section DLX End Plate, One Two-Section End Plate, Buffer Tube Storage Compartment and Four L-Brackets.
8006691	9.5" x 28" (241 x 711) COYOTE Splice Case Kit, configured for ADOBE-12 or ADOBE-24 Splice Trays. Includes: One Three-Section DLX End Plate, one Two-Section End Plate, Buffer Tube Storage Compartment and Four L-Brackets.
8006840	9.5" x 28" (291 x 711) COYOTE Express Splice Case Kit, configured for ADOBE-12 or ADOBE-24 Splice Trays. Includes: One Three-Section DLX End Plate, One Two-Section End Plate, Buffer Tube Storage Compartment and Four L-Brackets.
8006788	12.5" x 28" (318 x 711) COYOTE Splice Case Kit, configured for ADOBE-24 Splice Trays. Includes: one Three-Section DLX End Plate, one Two-Section End Plate, Buffer Tube Storage Compartment and Six L-Brackets.

Marks on End Plates denote usable area of cable entrance holes.





Three-Section End Plates

Dimensions (mm)						
Splice Case	**A**	**B**	**C**	**D**	**E**	**F**
6.5" x 28"	28.4" (721)	22.7" (577)	9.25" (235)	7.0" (178)	6.5" (165)	4.1" (104)
8.0" x 28"	28.4" (721)	22.7" (567)	10.5" (267)	8.5" (216)	8.0" (203)	5.6" (142)
9.5" x 28"	28.4" (721)	21.6" (549)	12.5" (318)	10.0" (254)	9.5" (241)	7.1" (180)

COYOTE® Splice Case (ADOBE™ Series)

ADOBE Splice Trays	
Catalog Number	**Description**
8001122	ADOBE-12 Splice Tray (12-Count) with Heat Shrink Splice Block Includes: tray, cover, tie wraps, and felt strips
8001096	ADOBE-12 Splice Tray (12-Count) with Molded-In Splice Block Includes: tray, cover, tie wraps, and felt strips
8001120	ADOBE-12 Splice Tray — Blank Includes: tray, cover, tie wraps, and felt strips
8001121	ADOBE-24 Splice Tray (24-Count) with Heat Shrink Splice Block Includes: tray, cover, tie wraps, and felt strips
8001119	ADOBE-24 Splice Tray — Blank Includes: tray, cover, tie wraps, and felt strips

ADOBE-12 Splice Trays are 13" (330 mm) L x 3-15/16" (100 mm) W x 15/16" (9 mm) H
ADOBE-24 Splice Trays are 13" (330 mm) L x 4-3/4" (121 mm) W x 11/32" (9 mm) H

Capacity					
Splice Tray Catalog Number	**Closure (mm)**	**Usable Splice Protectors**	**Splice Capacity per Tray**	**Max. Number of Trays per Closure**	**Max. Closure Splice Capacity**
8001122	6.5" x 28" (165 x 711)	Heat Shrink Only	12	12	144
8001096		Protected Fusion	12	12	144
8001121		Heat Shrink Only	24	8	192
8001122	8.0" x 28" (203 x 711)	Heat Shrink Only	12	16	192
8001096		Protected Fusion	12	16	192
8001121		Heat Shrink Only	24	12	288
8001122	9.5" x 28" (241 x 711)	Heat Shrink Only	12	18	216
8001096		Protected Fusion	12	18	216
8001121		Heat Shrink Only	24	14	336
8001121	12.5" x 28" (318 x 711)	Heat Shrink Only	24	18	432

For 9.5" x 28" (241mm x 721mm) Splice Case with 24 splices per splice tray, also see COYOTE Hi-Count Splice Case (page 2-8).

Note: Maximum number of trays per closure and closure capacity for Express versions (8006839 and 8006840) are reduced by 50 percent.

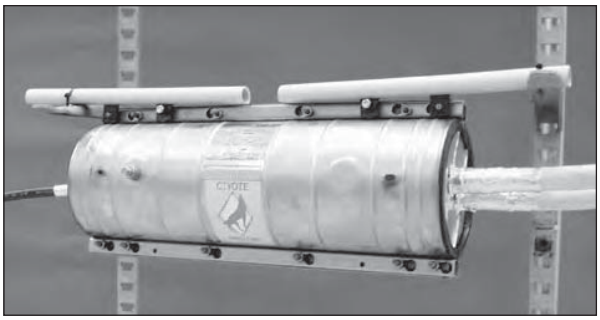
COYOTE® Splice Case for Vault Applications

Meets fire resistance requirements for vault applications

COYOTE Splice Case for vault applications meets the requirements of Bellcore GR-771-CORE.

Each kit contains two fire retardant Three-Section End Plates for typical in-line vault application. Additional fire resistant tape is provided to cover the cables where they enter the end plates.

The Organizer included with each Splice Case accommodates standard COYOTE Splice Trays. For capacities see COYOTE Splice Case Capacities on page 2-4. Unitube versions include transport tubes in kit.



Catalog Number	Descritpion (mm)
8006760	6.5" x 28" (165 x 711) COYOTE Splice Case for vault applications, unitube version
8006767	6.5" x 28" (165 x 711) COYOTE Splice Case for vault applications, buffer tube version
8006761	8.0" x 28" (203 x 711) COYOTE Splice Case for vault applications, unitube version
8006766	8.0" x 28" (203 x 711) COYOTE Splice Case for vault applications, buffer tube version
8006762	9.5" x 28" (241 x 711) COYOTE Splice Case for vault applications, unitube version
8006764	9.5" x 28" (241 x 711) COYOTE Splice Case for vault applications, buffer tube version
8006763	9.5" x 38" (241 x 965) COYOTE Splice Case for vault applications, unitube/buffer tube version

Factory drilling of End Plates is available at no additional charge.

PREFORMED LINE PRODUCTS

Section 3 – FIBERLIGN® Closure Series

Table of Contents Page

FIBERLIGN® Splice Trays

Splice Trays for PREFORMED™ Splice Cases

FIBERLIGN Fiber Optic Splice Trays are suitable for use in all PLP® Splice Cases and splicing applications. The storage trays provide ample room for storing fiber and allow for a generous bend radius designed to assure long term optical performance. There are now two types of trays offered. The standard thermal-formed tray is available for all closures and splice applications. The ADOBE™ Splice Tray is available as a lower cost alternative and is interchangeable with many of the thermal-formed trays. Both versions of the splice tray include a clear snap-on cover, felt tape for protecting buffer tubes, and tie wraps to secure the buffer or transport tubes to the tray. To find splice trays for a specific closure and specific splicing application, refer to the desired closure section of the catalog.

Standard Thermal-Formed Splice Tray

The standard thermal-formed tray is lined with felt to cushion optical fibers and provide a contrasting background for splicing colored fibers.

ADOBE™ Splice Tray

The ADOBE Splice Tray is an injection-molded tray which comes without the felt lining.

FIBERLIGN® Organizers

For Fusion Splices (Protected and Unprotected) and Mechanical Splices

FIBERLIGN Fiber Optic Organizers are designed to help organize, secure, support and protect delicate optical fibers before, during and after splicing. There are splice tray organizers to fit all of PLP's Splice Cases ranging from the 4.0" x 25.8" (102 x 655 mm) to the 9.5" x 38.4" (241 x 975 mm).

The FIBERLIGN Fiber Optic Organizers consist of a mainframe assembly, into which are inserted splice trays, each consisting of a splice tray and a snap-on clear cover. A grooved splice block on the tray holds and cushions the splices.

The splice trays are designed to accept most types of single, mass mechanical or mass fusion splices.

Features:

- An all-dielectric method to organize, secure, store and protect delicate optic fibers
- Individual trays can be removed to facilitate splicing
- Large excess buffer storage area
- Substantial cost savings

Use the selection chart below to choose the Splice Case and splice tray organizer which meet the requirements for your application.

Splice Case Dimensions (mm)	4.0" x 25.8" (102 x 655)	6.5" x 22.0" (165 x 559)	6.5" x 28.4" (165 x 721)	6.5" x 28.4" (165 x 721) or 8.0" x 28.4" (203 x 721)	6.5" x 28.4" (165 x 721) or 8.0" x 28.4" (203 x 721)	6.5" x 38.4" (165 x 965) or 8.0" x 38.4" (203 x 965)	9.5" x 28.4" (241 x 721) or 12.5" x 28.4" (318 x 721)	9.5" x 38.4" (241 x 965) or 12.5" x 38.4" (318 x 965)
Splice Tray Capacity	3	6	8	6	8	8	16	16
Organizer Capacity = Splice Tray Capacity x Number of Splices/Tray	36	72	96 (144)*	72 (108)*	96 (144)*	192	192 (288)*	384
Organizer Tray Arrangement	8000193 Horizontal	8001072 Vertical	8000185 Horizontal	8001025 Vertical	8001059 Vertical	8001036 Vertical	8001043 Vertical	8001049 Vertical

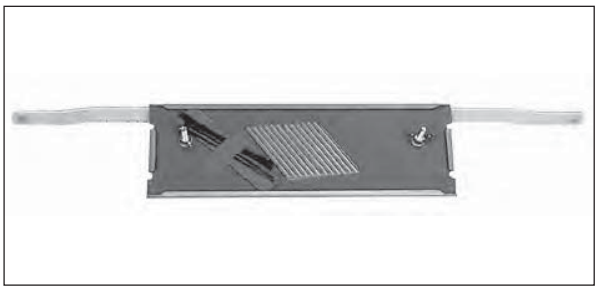
*Maximum splice capacity for 18 count splice trays or mass fusion trays.

FIBERLIGN Splice Trays come in various sizes and types to accommodate all of the different PLP Splice Cases and splicing applications being used. The storage trays provide ample room for storing fiber and allow for a generous bend radius designed to assure long term optical performance. There are now two types of trays offered. The standard thermal-formed tray is available for all closures and splice applications. The ADOBE™ Splice Tray is available as a lower cost alternative and is interchangeable with many of the thermal-formed trays. Both versions come with a clear snap on cover, felt tape for protecting buffer tubes, and tie wraps to secure the buffer tubes to the tray.

The following pages describe the specific splice trays for the mainframe and closure you have selected.

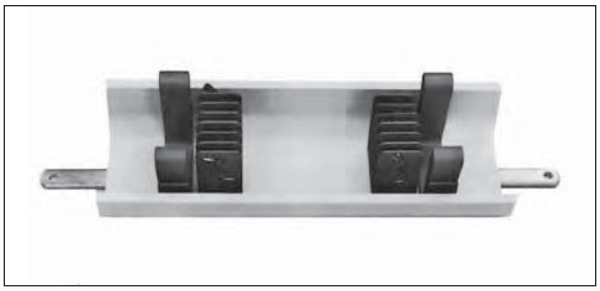
FIBERLIGN® Organizers

Catalog #8000193



Horizontal organizer for 4.0" x 25.8" (102 x 655 mm) Splice Case. Accommodates up to three splice trays.

Catalog #8001072



Vertical organizer for 6.5" x 22.0" (165 x 559 mm) Splice Case. Accommodates up to six splice trays.

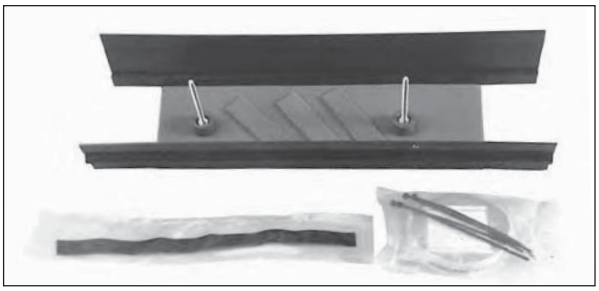
Catalog Number	Splice Type for:	No. of Splice Trays	Splice Tray Capacity	
8000192	Protected Fusion Amp Optimate Norland	3	12	S
8000182	Unprotected Fusion	3	12	S
8001050	3M Fibrlok Amp FingerSplice Siecor CamSplice Northern Telecom Lightbridge	3	12	S
–	Protected Mass Fusion Splice	–	–	–
–	3M Mass Connector	–	–	–
–	Reliance Corelink	–	–	–

Catalog Number	Splice Type for:	No. of Splice Trays	Splice Tray Capacity	
8001071	Protected Fusion Amp Optimate Norland	6	12	S
–	Unprotected Fusion	–	–	–
8001082	3M Fibrlok Amp FingerSplice Siecor CamSplice Northern Telecom Lightbridge	6	12	S
–	Protected Mass Fusion Splice	–	–	–
–	3M Mass Connector	–	–	–
–	Reliance Corelink	–	–	–

(S) signifies a standard size thermal-formed splice tray

FIBERLIGN® Organizers

Catalog #8000185



Horizontal stacking organizer for 6.5" x 28.4" (165 x 721 mm) Splice Case. Accommodates up to eight splice trays unless otherwise noted.

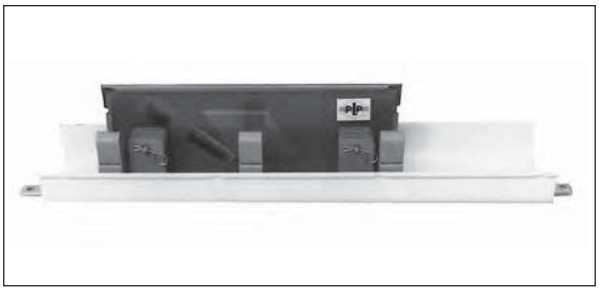
Catalog Number	Splice Type for:	No. of Splice Trays	Splice Tray Capacity	
8000184	Protected Fusion Amp Optimate Norland	8	12	W
8001021		8	12	S
8001044		8	18	S
8001095		8	18	A,W
8001096		8	18	A
8000182	Unprotected Fusion	8	12	S
8001024		8	12	S
8001042	3M Fibrlok Amp FingerSplice Siecor CamSplice Northern Telecom Lightbridge	8	12	W
8001041		8	12	S
8001099		8	12	A,W
8001098		8	12	A
8001085	Protected Mass Fusion Splice	8	48	S
8001091	Reliance Corelink	8	12	S

(A) Signifies an ADOBE™ Splice Tray

(S) Signifies a standard size thermal-formed splice tray

(W) Signifies a wide thermal-formed splice tray, 13" long x 4¾" wide (330 x 121 mm), instead of the standard 13" long x $3^{15}/_{16}$" wide (330 x 100 mm)

Catalog #8001025

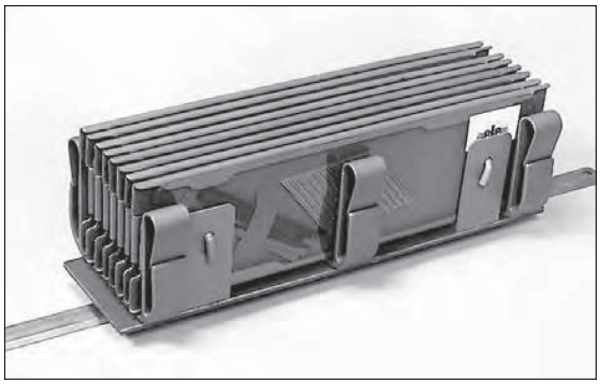


Vertical organizer for 6.5" x 28.4" (165 x 724 mm) or 8.0" x 28.4" (203 x 721 mm) Splice Case. Accommodates up to six splice trays.

Catalog Number	Splice Type for:	No. of Splice Trays	Splice Tray Capacity	
8001095	Protected Fusion Amp Optimate Norland	6	12	S
8000184		6	12	W
8001095	Unprotected Fusion	6	18	A,W
8000182	3M Fibrlok Amp FingerSplice Siecor CamSplice Northern Telecom Lightbridge	6	12	S
8001042		6	12	W
8001099	Protected Mass Fusion Splice	6	12	A,W
–	3M Mass Connector	–	–	–
–	Reliance Corelink	–	–	–

FIBERLIGN® Organizers

Catalog #8001059

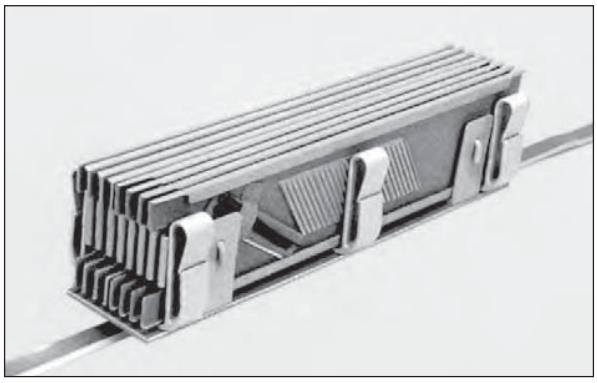


Vertical organizer for 6.5" x 28.4" (165 x 727 mm) or 8.0" x 28.4" (203 x 721 mm) Splice Case. Accommodates up to eight splice trays unless otherwise noted.

Catalog Number	Splice Type for:	No. of Splice Trays	Splice Tray Capacity	
8001021	Protected Fusion Amp Optimate Norland	8	12	S
8001044		8	18	S
8001096		8	18	A
8001109*		8	18	A
8001024	Unprotected Fusion	8	12	S
8001041	3M Fibrlok Amp FingerSplice Siecor CamSplice Northern Telecom Lightbridge	8	12	S
8001098		8	12	A
8001085	Protected Mass FusionSplice	8	48	S
8001091	Reliance Corelink	8	12	S

(A) signifies an ADOBE™ Splice Tray.
(S) signifies a standard size thermal-formed splice tray.
*ADOBE™ Splice Tray with Felt.

Catalog #8001036

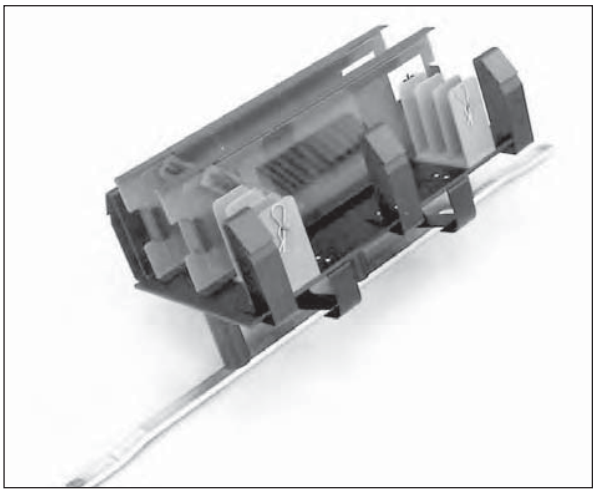


Vertical organizer for 6.5" x 38.4" (165 x 975mm) or 8.0" x 38.4" (203 x 975 mm) Splice Case. Accommodates up to eight splice trays.

Catalog Number	Splice Type for:	No. of Splice Trays	Splice Tray Capacity	
8001028	Protected Fusion Amp Optimate Norland	8	24	S
–	Unprotected Fusion	–	–	–
8001052	3M Fibrlok Amp FingerSplice Siecor CamSplice Northern Telecom Lightbridge	8	24	S
8001026	AT&T Rotary AT&T CSL	8	24	S
–	Protected Mass FusionSplice	–	–	–
–	3M Mass Connector	–	–	–
–	Reliance Corelink	–	–	–

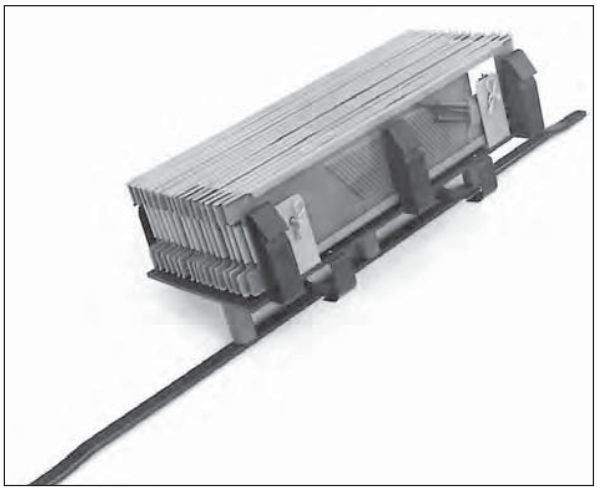
FIBERLIGN® Organizers

Catalog #8001043



Vertical organizer for 9.5" x 28.4" (241 x 721 mm) Splice Case. Accommodates up to sixteen splice trays unless otherwise noted.

Catalog #8001049



Vertical organizer for 9.5" x 38.4" (241 x 975 mm) Splice Case. Accommodates up to sixteen splice trays.

Catalog Number	Splice Type for:	No. of Splice Trays	Splice Tray Capacity	
8001021	Protected Fusion Amp Optimate Norland	16	12	S
8001044		16	18	S
8001096		16	18	A
8001109*		16	18	A
8001024	Unprotected Fusion	16	12	S
8001041	3M Fibrlok Amp FingerSplice Siecor CamSplice Northern Telecom Lightbridge	16	12	S
8001098		16	12	A
8001085	Protected Mass FusionSplice	16	48	S
8001091	Reliance Corelink	16	12	S

Catalog Number	Splice Type for:	No. of Splice Trays	Splice Tray Capacity	
8001028	Protected Fusion Amp Optimate Norland	16	24	S
–	Unprotected Fusion	–	–	–
8001052	3M Fibrlok Amp FingerSplice Siecor CamSplice Northern Telecom Lightbridge	16	24	S
8001026	AT&T Rotary AT&T CSL	16	24	S
–	Protected Mass FusionSplice	–	–	–
–	3M Mass Connector	–	–	–
–	Reliance Corelink	–	–	–

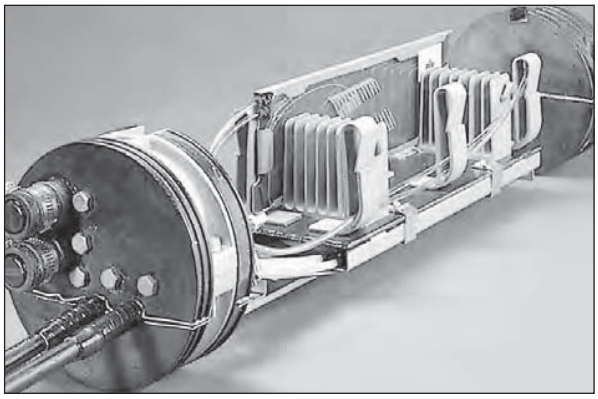
(A) signifies an ADOBE™ Splice Tray.
(S) signifies a standard size thermal-formed splice tray.
*ADOBE™ Splice Tray with Felt.
**If splicing 900 micron tip cable, splice tray will accommodate only 12 splices.

FIBERLIGN® UNI-CLOSURE

The Versatile, Re-enterable Closure Engineered for Unitube or Loose Buffer Tube Fiber Optic Cable Installation

The FIBERLIGN UNI-CLOSURE provides an airtight, watertight system that is designed to protect, store, route and organize fibers from unitube or buffer tube cables in any environment. Whether you are splicing cable above or below ground, the FIBERLIGN UNI-CLOSURE is designed to provide an airtight seal in wet, dry, cold or hot weather.

Available in three sizes, 6.5" x 28" (165 x 711 mm), 8.0" x 28" (203 x 711 mm), and 9.5" x 28" (241 x 711 mm), the FIBERLIGN UNI-CLOSURE accommodates 8-16 splice trays (see Splice Tray Capacity chart), each of which protects, secures, and organizes up to 12 or 18 fiber splices. Splice Trays are also available for protected mass fusion splices, and mass mechanical connectors. The transition tray allows you to store excess fiber for easy fiber count changes in the future.



Splice Tray Capacity	
6.5" x 28" (165 x 711 mm)	8
8.0" x 28" (203 x 711 mm)	10
9.5" x 28" (241 x 711 mm)	16

FIBERLIGN® UNI-CLOSURE

FIBERLIGN UNI-CLOSURE Design Features:

Future Cable Entry with Factory-Installed Cable Entrance Ports:

The FIBERLIGN UNI-CLOSURE utilizes End Plates made from engineered plastic filled with rigid polyurethane foam. The 6.5" x 28" (165 x 721 mm) and the 8.0" x 28" (203 x 721 mm) FIBERLIGN UNI-CLOSURES are designed to have three cable entries drilled on-site with the Power End Plate Cutter. These closures are also equipped with two factory-installed cable ports for future cable entry. This allows for easy grounding, simple strength member tie-off, and easy installation of future cables. The 9.5" x 28" (241 x 721 mm) FIBERLIGN UNI-CLOSURE is designed for eight field-drilled cable entries without any factory-installed cable ports. A replacement End Plate is available for the 9.5" x 28" (241 x 721 mm) FIBERLIGN UNI-CLOSURE with four factory-installed cable ports and room for eight field-drilled cable entries.

LOCKBAR™ Fastening

The LOCKBAR System utilizes front and back bars that fit into the flanges on both the Splice Case and the inner closure assembly. With factory-assembled nuts and bolts, and special sizing, no special tools are needed for installation. This simplified installation, saves time, and allows for easy re-entry without using re-entry kits.

Transition Tray and Organizer Ensure the Integrity of Fibers:

This uniquely engineered and field proven assembly accommodates continuous and cut fibers. The transition tray is designed to allow ample room for storing fiber. It provides a generous bending radius designed to assure long-term optical performance.

6.5" (165 mm) FIBERLIGN UNI-CLOSURE	
IF UNITUBE CABLE IS:	ORGANIZER WILL ACCOMMODATE:
1. Continuous Loop (uncut cable)	-Ribbon type 72 fibers -Loose fiber type 96 fibers -Loose buffer tube 96 fibers
2. Cut Cables	-Ribbon type 144 fibers -Loose fiber 96 fibers -Loose buffer tube 96 fibers
8" (203 mm) FIBERLIGN UNI-CLOSURE	
IF UNITUBE CABLE IS:	ORGANIZER WILL ACCOMMODATE:
1. Continuous Loop (uncut cable)	-Ribbon type 144 fibers -Loose fiber type 216 fibers -Loose buffer tube 216 fibers
2. Cut Cable	-Ribbon type 216 fibers -Loose fiber 216 fibers -Loose buffer tube 216 fibers
9.5" (241 mm) FIBERLIGN UNI-CLOSURE	
IF UNITUBE CABLE IS:	ORGANIZER WILL ACCOMMODATE:
1. Continuous Loop (uncut cable)	-Ribbon type 288 fibers -Loose fiber type 384 fibers -Loose buffer tube 288 fibers
2. Cut Cables	-Ribbon type 432 fibers -Loose fiber 432 fibers -Loose buffer tube 384 fibers

FIBERLIGN UNI-CLOSURE Ordering Chart

Catalog Number	Dimensions (mm)
8006443	6.5" x 28" (165 x 721) FIBERLIGN UNI-CLOSURE for butt splice applications. Includes: One Two-Section End Plate, one Three-Section End Plate with two factory-installed cable ports [for future cable entry, cables up to 0.8" (20) diameter], five bonding/grounding inserts, five "L" brackets for cable shield isolation/strength member tie-off, organizer, transition compartment and transport tubes.
8006450	8.0" x 28" (203 x 721) FIBERLIGN UNI-CLOSURE for butt splice applications. Includes: one Two-Section End Plate, one Three-Section End Plate with two factory-installed cable ports [for future cable entry, cables up to 0.8" (20) diameter], five bonding/grounding inserts, five "L" brackets for cable shield isolation/strength member tie-off, organizer, transition compartment and transport tubes.
8006542	9.5" x 28" (241 x 721) FIBERLIGN UNI-CLOSURE for butt splice applications. Includes: one Two-Section End Plate, one Three-Section End Plate with eight bonding/grounding inserts (no factory-installed cable ports), eight "L" brackets for cable shield isolation/strength member tie-off, organizer, transition compartment and transport tubes.

FIBERLIGN® UNI-CLOSURE

Splice Trays

Splice Trays for the FIBERLIGN UNI-CLOSURE are 13" 330 mm) long by $3^{15}/_{16}$" (100mm) wide. There are now two types of trays offered. The Standard Tray is available for all UNI-CLOSURES and for all splicing applications. Standard Trays are fully-lined to cushion fibers and provide a contrasting background when selecting or matching varied colored fibers. The ADOBE™ Splice Tray is available as a lower cost alternative and is interchangeable with many of the Standard Trays. Both versions come with a clear snap-on cover, felt tape for protecting buffer tubes, and tie wraps to secure the buffer tubes to the trays.

FIBERLIGN UNI-CLOSURE Splice Tray Ordering Chart (mm)

Catalog Number	Splice Type for:	Maximum No. of Trays per Closure			Splice Tray Capacity	
		6.5" (165)	8.0" (203)	9.5" (241)		
8001041	3M Fibrlok Amp FingerSplice Siecor CamSplice Northern Telecom Lightbridge	8	10	16	12	S
8001098		8	10	16	12	A
8001085	Protected Mass Fusion Splice	8	10	16	48	S
8001021	Protected Fusion Amp Optimate Norland	8	10	16	12	S
8001044		8	10	16	18	S
8001096		8	10	16	18	A

(A) signifies ADOBE™ Splice Tray
(S) signifies a standard size thermal-formed splice tray

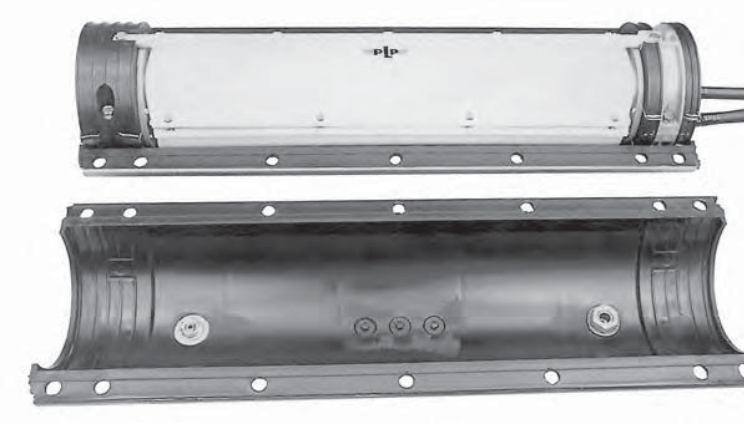
FIBERLIGN UNI-CLOSURE Replacement End Plates and Accessories

Catalog Number	Description (mm)
8003178	6.5" (165) Diameter Three-Section End Plate with five bonding/grounding inserts, two factory-installed cable ports (for future cable entry, cables up to 0.8" diameter) supplied with five “L” brackets for cable shield isolation/strength member tie-off.
8003213	8.0" (203) Diameter Three-Section End Plate with five bonding/grounding inserts, two factory-installed cable ports [for future cable entry, cables up to 0.8" (20) diameter] supplied with five “L” brackets for cable shield isolation/ strength member tie-off.
8003226	6.5" (165) Diameter Three-Section End Plate with six bonding/grounding inserts (no factory-installed cable ports), supplied with six “L” brackets for cable shield isolation/strength member tie-off.
8003227	6.5" (165) Diameter Three-Section End Plate with six bonding/grounding inserts (no factory-installed cable ports), supplied with six “L” brackets for cable shield isolation/strength member tie-off.
80805166	9.5" (241) Diameter Three-Section End Plate with eight bonding/grounding inserts (no factory-installed cable ports), supplied with eight “L” brackets for cable shield isolation/strength member tie-off.
80805120	9.5" (241) Diameter Three-Section End Plate with eight bonding/grounding inserts (no factory-installed cable ports), supplied with eight “L” brackets for cable shield isolation/strength member tie-off.
8003175	L-Bracket Bonding Kit (4) bonding brackets and retainer clips
8003176	Transport tube kit [8 tubes, 34" long (863mm)] for 6.5" x 28" (165 x 711 mm) and 8.0" x 28" (203 x 711 mm) closures.
8003265	Transport tube kit [8 tubes, 40" long (1016mm)] for 9.5" x 28" (241 x 711 mm) closure

FIBERLIGN® Fiber Safe

The Encapsulated, Re-enterable Closure Assembly

The FIBERLIGN® Fiber Safe is designed for protecting underground, buried and aerial fiber optic splices. More versatile and flexible than other fiber optic closures, the FIBERLIGN Fiber Safe incorporates a closure within a closure for double protection. The FIBERLIGN Fiber Safe can accommodate butt splice applications or in-line configurations using various End Plate and Splice Case combinations. Re-enterable encapsulant fills the void between the inner closure and outer Splice Case assembly to provide an additional barrier against moisture. The FIBERLIGN Fiber Safe is easily re-enterable. Unique LOCKBAR™ Fastening allows rapid re-entry for system additions. The closure is filled and refilled through an exterior port in the Splice Case.



Design Features:

Butt Splice Applications

The FIBERLIGN Fiber Safe utilizes a preassembled 6.5" (165 mm) End Plate and a variety of cable entry End Plates for butt entry applications. 28" (711 mm) Splice Case shells are provided for these applications.

In-line Splice Applications

For in-line configurations, the FIBERLIGN Fiber Safe is designed with two 6.5" (165 mm) Three-Section End Plates and 38" (975 mm) Splice Case shells are provided.

Cable Entry End Plates

A variety of cable entry End Plates are available which provide simple cable entry for both initial construction and future entry. External bonding capability is provided throughout.

Splice Trays

The FIBERLIGN Fiber Safe accommodates 6 splice trays holding 12 or 18 splices per tray. An expanded capacity closure is available for butt splice applications which utilizes up to 6 splice trays holding 24 splices per tray (Cat. No.: 8001004). Splice trays are available for both fusion and mechanical splices.

Vertical Filing

The PREFORMED™ vertical file system allows trays to be individually removed, easily reworked and securely repositioned. The snap-on lid assures additional protection to each tray.

Expressing Fibers

Provisions are made for expressing uncut fibers through the inner closure.

LOCKBAR™ Fastening

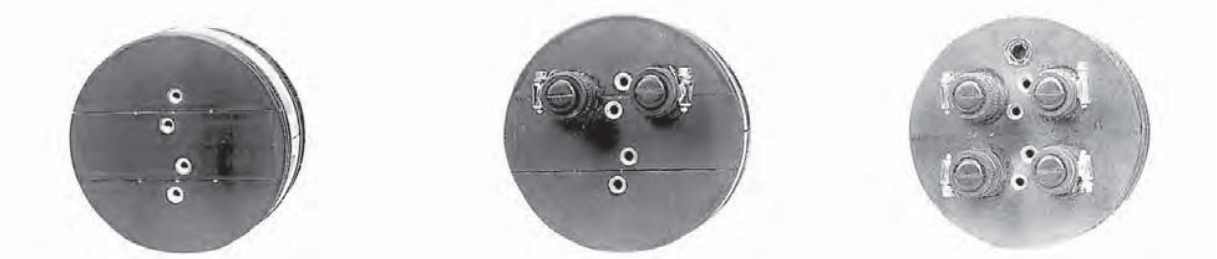
The LOCKBAR System utilizes front and back bars that fit into the flange on both the Splice Case and the inner closure assembly. With factory-assembled nuts and bolts and special sizing, no special tools are needed for a fast, dependable closure. The dual closure system is designed to assure maximum system integrity, with outstanding accessibility and ease of re-entry.

Protective Collar

An innovative collar attaches to the End Plate inside the closure which provides an additional watertight seal and acts as a substrate to which resin will bond.

The FIBERLIGN Fiber Safe is patented.

FIBERLIGN® Fiber Safe



Three-Section End Plate (provided with FIBERLIGN Fiber Safe Closures 8001001, 8001002, 8001003, 8001004, 8001005, and 8001006)

End Plate with two factory-installed inserts for future entry (provided with FIBERLIGN Fiber Safe Closure 8001007)

End Plate with four factory-installed inserts (provided with FIBERLIGN Fiber Safe Closure 8001008)

How to order FIBERLIGN Fiber Safe and Accessories

1. Specify 8001001, 8001003, 8001004, 8001005, 8001007 or 8001008 FIBERLIGN Fiber Safe for butt splice applications or specify 8001002 or 8001006 FIBERLIGN Fiber Safe for in-line splice applications.
2. Specify 8000310 Non Re-enterable Resin Kit (preferred) for filling the cup; two required for in-line or specify 80803316 Re-enterable Encapsulant Kit (optional) for filling the cup; two required for in-line.
3. Specify 80802829 Re-enterable Encapsulant for filling the 8001001, 8001003, 8001005, 8001007 or 8001008 FIBERLIGN Fiber Safe or specify 80802826 Re-enterable Encapsulant for filling the 8001002, 8001004, or 8001006 FIBERLIGN Fiber Safe.
4. Order appropriate Fiber Optic Splice Trays. Each Fiber Optic Splice Tray is supplied with snap-on clear cover and will accommodate up to 12 or up to 18 fiber optic splices.
5. Order additional End Plate Kits as needed.

Encapsulant Ordering Chart

FIBERLIGN Fiber Safe Catalog Number	Type of Splice	Protective Collar Encapsulant		FIBERLIGN Fiber Safe Encapsulant
		Re-enterable	Non Re-enterable	
8001001 8001003 8001005 8001007 8001008	Butt	80803316	8000310	80802829
8001004	Butt	80803316	8000310	80802826
8001002	In-line	80803316 (2 kits)	8000310 (2 kits)	80802826
8001006				

FIBERLIGN Fiber Safe

Catalog Number	Description (mm)
8001003	6.5" x 28" (165 x 711) FIBERLIGN Fiber Safe for butt splice applications. Includes: One Two-Section End Plate and one Three-Section End Plate.
8001002	6.5" x 38" (165 x 965) FIBERLIGN Fiber Safe for in-line splice applications. Includes: Two Three-Section End Plates.
8001001	6.5" x 28" (165 x 711) FIBERLIGN Fiber Safe for butt splice applications. Includes: One Two-Section End Plate and one Three-Section End Plate and one Fiber Optic Splice Tray with cover (8001021).
8001004	6.5" x 38" (165 x 965) FIBERLIGN Fiber Safe for butt splice applications. (Up to 144 Splices) Includes: One Two-Section End Plate and one Three-Section End Plate.
8001005	6.5" x 28" (165 x 711) FIBERLIGN Fiber Safe for butt splice applications. Includes: One Two-Section End Plate, one Three-Section End Plate and RUS listed shield connectors. (RUS LISTED)
8001006	6.5" x 38" (165 x 965) FIBERLIGN Fiber Safe for in-line splice applications. Includes: Two Three-Section End Plates, and RUS listed shield connectors. (RUS LISTED)
8001007	6.5" x 28" (165 x 711) FIBERLIGN Fiber Safe for butt splice applications. Includes: One Two-Section End Plate and one Three-Section End Plate with two factory-installed inserts (cables up to 0.8" diameter) for future entry.
8001008	6.5" x 28" (165 x 711) FIBERLIGN Fiber Safe for butt splice applications. Includes: Two Two-Section End Plates; one blank and one with four factory-installed inserts (cables up to 0.8" [20 mm] diameter).
8001010	6.5" x 28" (165 x 711) FIBERLIGN Fiber Safe for butt splice applications. Includes: One Two-Section End Plate, one Three-Section End Plate and RUS listed shield connectors. (RUS LISTED Flame Retardant End Plates)

FIBERLIGN® Fiber Safe

SPLICE TRAYS for all Closures except 8001004

The Splice Trays for all FIBERLIGN Fiber Safe Closures, except the 8001004, are 13" long by 3-15/16" wide (330 x 100 mm), and each is supplied with a snap-on clear cover. There are now two types of splice trays offered. The Standard Thermal-formed Tray is available for all closures and splicing applications. The ADOBE™ Splice Tray is available as a lower cost alternative and is interchangeable with many of the thermal-formed trays. Select the appropriate catalog number from the chart below.

Catalog Number	Splice Type for:	No. of Splice Trays	Splice Tray Capacity	
8001021	Protected Fusion Amp Optimate Norland	6	12	S
8001044		6	18	S
8001096		6	18	A
8001109*		6	18	A
8001024	Unprotected Fusion	6	12	S
8001041	3M Fibrlok Amp FingerSplice	6	12	S
8001098	Siecor CamSplice Northern Telecom Lightbridge	6	12	A

(A) signifies ADOBE™ Splice Tray.
(S) signifies a standard size thermal-formed splice tray.
* ADOBE™ Splice Tray with Felt.

SPLICE TRAYS for 8001004 Closure

The Splice Trays for the 8001004 FIBERLIGN Fiber Safe are 17-3/8" long by 3-15/16" wide (441 x 100 mm), and each is supplied with a snap-on clear cover. The Splice Trays accommodate 24 fiber splices.

Catalog Number	Splice Type for:	No. of Splice Trays	Splice Tray Capacity	
8001028	Protected Fusion Amp Optimate Norland	6	24	S
8001026	AT&T Rotary AT&T LightSplice	6	24	S
8001052	3M Fibrlok Amp FingerSplice Siecor CamSplice Northern Telecom Lightbridge	6	24	S

(S) signifies a standard size thermal-formed splice tray

C-Cement

C-Cement is required for both cable preparation and End Plate preparation, but is not supplied with Splice Cases or End Plate Kits.

C-CEMENT		
C-Cement	80805238	1 oz. tube
C-Cement	80802377	4 oz. can

FIBERLIGN® Fiber Safe

Accessories

FIBERLIGN Fiber Safe (mm)	
Catalog Number	**Encapsulant Description**
8000310	8 oz. Resin Kit (non-re-enterable) for filling cup.
80803316	300 Gram Kit RD Encapsulant (re-enterable) for filling cup.
80802829	5500 Gram Kit RD Encapsulant (re-enterable) for filling 8001003, 8001001, 8001005, 8001007 or 8001008 FIBERLIGN Fiber Safe.
80802826	8000 Gram Kit RD Encapsulant (re-enterable) for filling 8001002, 8001004, or 8001006 FIBERLIGN Fiber Safe.
Catalog Number	**Replacement Parts Description**
80803149	One Two-Section End Plate with protective collar assembly for cable blocking.
80803148	One Three-Section End Plate with protective collar assembly for cable blocking.
80803695	One Three-Section End Plate with two factory-installed ports (for future cable entry, for cables up to 0.8" [20] in diameter), four bonding/grounding inserts, four modified brackets for cable shield isolation/strength member tie-off, and protective collar assembly for cable blocking. Designed for two field-drilled cable holes.
80803668	One Two-Section End Plate with four factory-installed ports (for future cable entry, for cables up to 0.8" [20] in diameter), four bonding/grounding inserts, four modified brackets for cable shield isolation/strength member tie-off, and protective collar assembly for cable blocking. No room for field-drilled cable holes.
8001032	Re-entry kit for 6.5" x 28" (165 x 711) FIBERLIGN Fiber Safe. Includes: Gaskets for collars and inner closure and a replacement flange clamp assembly.
8001033	Re-entry kit for 6.5" x 38" (165 x 965) FIBERLIGN Fiber Safe. Includes: Gaskets for collars and inner closure and a replacement flange clamp assembly.

PREFORMED LINE PRODUCTS

Section 4 – FIBERLIGN® Splice Case Series

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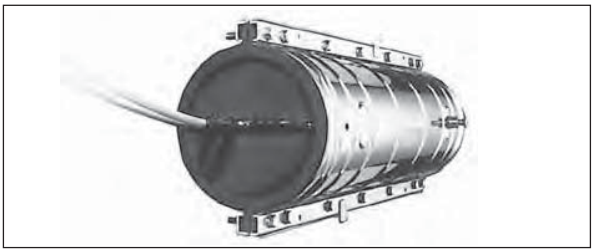
FIBERLIGN® Splice Case



The PREFORMED™ Splice Case, the most effective Splice Case made, offers easy-to-use LOCKBAR™ Fastening. LOCKBAR Fastening reduces Splice Case installation and re-entry time by as much as 50%.

The PREFORMED Splice Case is versatile, accommodating a wide variety of fiber optic applications when used with FIBERLIGN Organizers. It effectively maintains an airtight, watertight seal around all types of fiber optic cable.

The closure is designed to remain secure whether the application is overhead or underground, and in hot, dry, warm, wet or cold environments. In addition, the PREFORMED Splice Case can be easily re-entered without a special kit or special tools.

LOCKBAR Fastening for Rapid Installation and Re-entry

The revolutionary LOCKBAR Fastening System—a PREFORMED exclusive—eliminates the need to individually assemble nuts and bolts to close the PREFORMED Splice Case. The LOCKBAR System features front and back bars that fit into the Splice Case flange. The back bar has factory assembled bolts and nuts; the front bar has keyholes that accept the bolt assemblies on the back bar. Once the bars mate through the flanges, the nuts simply lock into the keyhole and are torqued down in sets.

Maintains an Airtight, Watertight Seal

LOCK-TAPE™ Sealing is central to the Splice Case seal. When properly applied around the cable and laid in the cut End Plates, the LOCK-TAPE System creates a gasket-like seal that locks cables into place and provides for extra strong shear strength to resist cable pull-out.

Strong and Durable; Corrosion-Resistant

Shells of the PREFORMED Splice Case are precision formed of stainless steel with an inside liner of neoprene. LOCKBAR Fasteners, made from the same durable stainless steel, are lightweight and corrosion-resistant. End Plates are made from hard plastic and filled with a rigid polyurethane foam. Torque bars keep the End Plates secure and in alignment during installation and re-entry.

The Practical Re-enterable Case

The PREFORMED Splice Case with LOCKBAR Fastening can be easily re-entered without a special kit. Holes are easily cut in the End Plates to accommodate a variety of cable diameters and multiple entries. These holes can be cut quickly in the field with a Power End Plate Cutter.

Laboratory Tested, Field Proven

Engineering improvements and Splice Case Kit additions have created what is today the most effective, versatile and easy-to-install splice closure available. For comprehensive test data and field reports, contact Preformed Line Products Company.

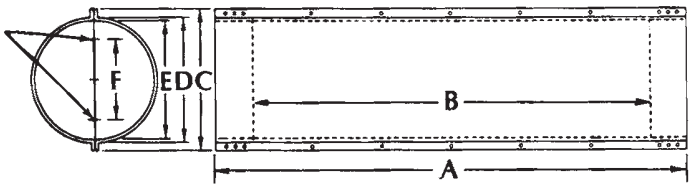
FIBERLIGN® Splice Case

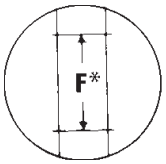
The FIBERLIGN Splice Case, End Plates, Organizers and Splice Trays are designed to fit your specific splicing application. The Splice Cases may be ordered as a kit with two standard End Plates included, or the Splice Case may be ordered without the End Plates. Ordering a Splice Case without the standard End Plates allows you to select specific End Plates for specialized applications (see pages 4-4 to 4-6 for End Plate selection). A Power End Plate Cutter is required for field installation and a Torque/Socket Tool Kit is available for tightening the Splice Case. FIBERLIGN Organizers and Splice Trays must be ordered separately, see pages 3-2 to 3-7.

Splice Cases with two Standard End Plates Included (mm)							
Catalog Number	Splice Case Dimensions (mm)	A	B	C	D	E	F
8006282	4.0" x 25.8" (102 x 655)	25.8" (655)	20.3" (516)	6.0" (152)	4.5" (114)	4.0" (102)	2.2" (56)
8006377	6.5" x 22.0" (165 x 559)	22.0" (559)	16.2" (412)	9.25" (235)	7.0" (179)	6.5" (165)	4.1" 104)
8006192	6.5" x 28.4" (165 x 721)	28.4" (721)	22.7" (577)	9.25" (235)	7.0" (179)	6.5" (165)	4.1" (104)
8006024	6.5" x 38.4" (165 x 975)	38.4" (975)	32.7" (831)	9.25" (235)	7.0" (179)	6.5" (165)	4.1" (104)
8006261	8.0" x 28.4" (203 x 721)	28.4" (721)	22.7" (567)	10.5" (267)	8.5" (216)	8.0" (203)	5.6" (142)
8006262	8.0" x 38.4" (203 x 975)	38.4" (975)	32.7" (831)	10.5" (267)	8.5" (216)	8.0" (203)	5.6" (142)
8000661*	9.5" x 28.4" (241 x 721)	28.4" (721)	21.6" (549)	12.5" (318)	10.0" (254)	9.5" (241)	7.1" (180)
8000662*	9.5" x 38.4" (241 x 975)	38.4" (975)	31.6" (803)	12.5" (318)	10.0" (254)	9.5" (241)	7.1" (180)
8006251	12.5" x 28.4" (318 x 721)	28.4" (721)	21.6" (549)	15.5" (394)	13.0" (330)	12.5" (318)	9.3" (236)
8006252	12.5" x 38.4" (318 x 975)	38.4" (975)	31.6" (803)	15.5" (394)	13.0" (330)	12.5" (318)	9.3" (236)

*Includes one Two-Section End Plate and one Three-Section End Plate.

Marks on End Plates denote usable area for cable entrance holes.





Three-Section End Plate

The following Splice Case Shell Kits include all materials necessary to install the Stainless Steel Shell halves, along with Aerial Hanger Brackets. All other material necessary for installation is included with the End Plates which are ordered separately.

Splice Case Shell Kits without End Plates Included (mm)							
Catalog Number	Splice Case Dimensions (mm)	A	B	C	D	E	F
8006559	4.0 x 25.8 (102 x 655)	25.8" (655)	20.3" (516)	6.0" (152)	4.5" (114)	4.0" (102)	2.2" (56)
8006510	6.5 x 22.0 (165 x 559)	22.0" (559)	16.2" (412)	9.25" (235)	7.0" (179)	6.5" (165)	4.1" (104)
8006041	6.5 x 28.4 (165 x 721)	28.4" (721)	22.7" (577)	9.25" (235)	7.0" (179)	6.5" (165)	4.1" (104)
8006043	6.5 x 38.4 (165 x 975)	38.4" (975)	32.7" (831)	9.25" (235)	7.0" (179)	6.5" (165)	4.1" (104)
8006387	8.0 x 28.4 (203 x 721)	28.4" (721)	22.7" (567)	10.5" (267)	8.5" (216)	8.0" (203)	5.6" (142)
8006388	8,0 x 38.4 (203 x 975)	38.4" (975)	32.7" (831)	10.5" (267)	8.5" (216)	8.0" (203)	5.6" (142)
8006186	9.5 x 28.4 (241 x 721)	28.4" (721)	21.6" (549)	12.5" (318)	10.0" (254)	9.5" (241)	7.1" (180)
8006187	9.5 x 38.4 (241 x 975)	38.4" (975)	31.6" (803)	12.5" (318)	10.0" (254)	9.5" (241)	7.1" (180)
8006268	12.5 x 28.4 (318 x 721)	28.4" (721)	21.6" (549)	15.5" (394)	13.0" (330)	12.5" (318)	9.3" (236)
8006269	12.5 x 38.4 (318 x 975)	38.4" (975)	31.6" (803)	15.5" (394)	13.0" (330)	12.5" (318)	9.3" (236)

FIBERLIGN® Splice Case

End Plate Kits

A variety of End Plate combinations are available for use with the PREFORMED™ Splice Case. Each Kit includes the LOCK-TAPE™ Sealant, Cue Card, and CABLE Mea-SURE™ Tape required for installation. The End Plates shown are examples of configurations for the 4.0" (102 mm), 6.5" (165 mm), 8.0" (203 mm), 9.5" (241 mm), and 12.5" (318 mm) End Plates used with the FIBERLIGN Splice Cases.

Standard Two-Section End Plate

Standard Three-Section End Plate

End Plate with factory-installed bonding/grounding inserts*

End Plate with factory-installed cable entry ports

End Plate with factory-installed bonding/grounding inserts* and cable entry ports

*Bonding/grounding inserts are also used for strength member tie-off for fiber optic cables.

4.0" (102 mm) FIBERLIGN Splice Case End Plates	
Catalog Number	**Description**
8003277	One Standard Two-Section End Plate
8003103	Two Standard Two-Section End Plates
80804985	One Two-Section End Plate with three inserts for bonding/grounding, and three “L” Brackets for cable shield isolation/strength member tie-off.
8003275	One Two-Section End Plate with two factory-installed ½" (13) cable ports for future entry 0.56" (14) max. cable, two inserts for bonding/grounding, two “L” Brackets for cable shield isolation/strength member tie-off. No space for field drilled cable entries.
8003274	One Two-Section End Plate with one factory-installed ½" (13) cable port for future entry 0.56" (14) max. cable, three inserts for bonding/grounding, three “L” Brackets for cable shield isolation/strength member tie-off, and space for two field-drilled cable entrances 0.6" (15) max.cables.

FIBERLIGN Splice Case Accessories	
Catalog Number	**Description**
8003175	“L” Bracket Bonding Kit – (4) bonding brackets and retainer clips

FIBERLIGN® Splice Case

6.5" (165 mm) FIBERLIGN Splice Case End Plates	
Catalog Number	**Description**
8003252	One Standard Two-Section End Plate
8000361	One Standard Three-Section End Plate
8003018	Two Standard Two-Section End Plates
8003278	One Two-Section End Plate with two bonding/grounding inserts and two “L” Brackets for cable shield isolation/ strength member tie-off.
8003163	One Three-Section End Plate with four bonding/grounding inserts and four “L” Brackets for cable shield isolation/ strength member tie-off.
8003093	One Three-Section End Plate with two factory-installed cable ports [for future cable entry, cables up to 0.8" (20) diameter], four bonding/grounding inserts, and four “L” brackets for cable shield isolation/strength member tie-off.
8003112	One Two-Section End Plate with four factory-installed cable ports [for future cable entry, cables up to 0.8" (20) diameter], four bonding/grounding inserts, and four “L” brackets for cable shield isolation/strength member tie-off.
8003225	One solid End Plate with six factory-installed cable ports [for future cable entry, cable up to 0.8" (20) diameter], and no space for field drilled cable entries.
8003226	One Three-Section End Plate with six bonding/grounding inserts, and six “L” Brackets for cable shield isolation/ strength member tie-off.
8003178	One Three-Section End Plate with two factory-installed cable ports [for future cable entry, cables up to 0.8" (20) diameter], five bonding/grounding inserts, and five “L” Brackets for cable shield isolation/strength member tie-off.

8.0" (203 mm) FIBERLIGN Splice Case End Plates	
Catalog Number	**Description**
8003282	One Standard Two-Section End Plate
8003110	One Standard Three-Section End Plate
8003098	Two Standard Two-Section End Plates
8003213	One Three-Section End Plate with two factory-installed cable port [for future cable entry, accepts cables up to 0.8" (20) diameter], five bonding/grounding inserts, and five “L” brackets for cable shield isolation/strength member tie-off.
8003227	One Three-Section End Plate with six bonding/grounding inserts, and six “L” brackets for cable shield isolation/ strength member tie-off.

FIBERLIGN Splice Case Accessories	
Catalog Number	**Description**
8003175	“L” Bracket Bonding Kit – (4) bonding brackets and retainer clips

FIBERLIGN® Splice Case

9.5" (241 mm) FIBERLIGN Splice Case End Plates	
Catalog Number	**Description**
8003283	One Standard Two-Section End Plate
8000381	Two Standard Two-Section End Plates
800081098	One Standard Three-Section End Plate
8000352	One solid End Plate with four factory-installed cable ports [for future cable entry, 1" (25) cable diameter], and no space for field drilled cable entries.
8000353	One solid End Plate with six factory-installed cable ports [for future cable entry, 1" (25) cable diameter], and no space for field drilled cable entries.
8000354	One solid End Plate with eight factory-installed cable ports [for future cable entry, 1" (25) cable diameter], and no space for field drilled cable entries.
80805166	One Three-Section End Plate with eight bonding/grounding inserts and eight “L”-Brackets for cable shield isolation/strength member tie-off.
80805120	One Three-Section End Plate with twelve bonding/grounding inserts, four factory-installed cable ports [for future cable entry, 0.8" (20) cable diameter], and 12 “L”-Brackets for cable shield isolation/strength member tie-off.

12.5" (381 mm) FIBERLIGN Splice Case End Plates	
Catalog Number	**Description**
8003284	One Standard Two-Section End Plate
8003055	One Standard Three-Section End Plate

FIBERLIGN Splice Case Accessories	
Catalog Number	**Description**
8003175	“L” Bracket Bonding Kit – (4) bonding brackets and retainer clips

PREFORMED LINE PRODUCTS

Section 5 – Fiber Optics: FIBERLIGN® Hardware for OPGW

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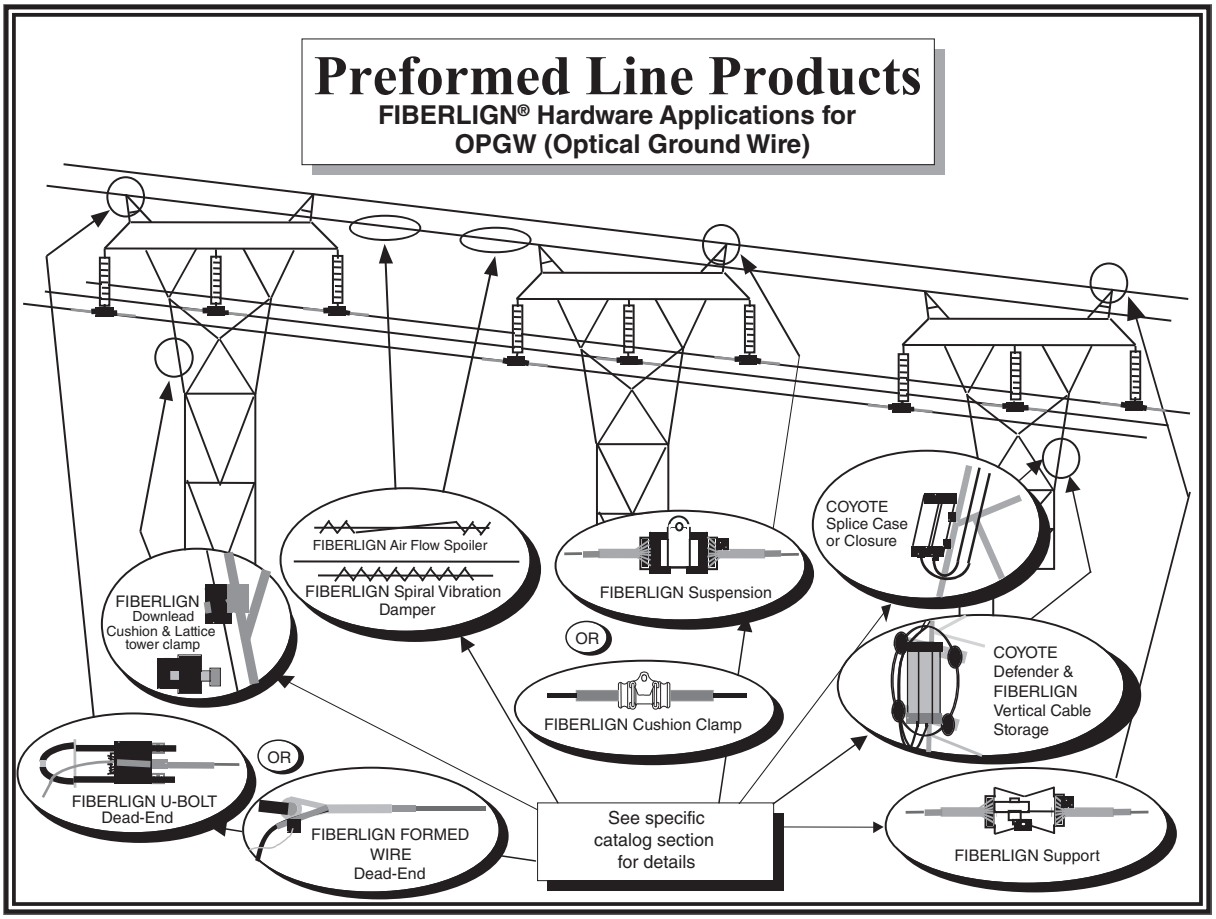
Fiber Optic Products

OPGW Product Layout



Note: Some OPGW hardware accessories can be found in section 7.

FIBERLIGN® Dead-end for OPGW

Retaining Rods: Aluminum Covered Steel, with Conductive Grit Applied.

Nuts: Galvanized Steel

U-bolt, Spacer Bar: Galvanized Steel

Housing: Galvanized Iron

Wedges: Aluminum Alloy

Grounding Bolt And Lock Washer: (included but not shown): Galvanized Steel

APPLICATION

The FIBERLIGN Dead-end is designed to terminate Optical Ground Wire (OPGW) while minimizing any compression stresses that may be transferred to the core or optical elements within. The Retaining Rods act with the Wedge and Housing to distribute the axial and compressive loading over a large area of the OPGW. Standard units have left-hand lay rods.

The FIBERLIGN® Dead-end sketch at the bottom of this page includes reference to the exposed rod length "L_E" or the rod length beyond the housing. This dimension is listed in the catalog table to help with VORTX™ Damper placement.

The slotted Housing design allows for the application of the FIBERLIGN Dead-end at any location on the OPGW.

Bonding: Provisions for electrically bonding the OPGW to the supporting structure or ground lead are an integral part of the Housing. A 1" x 1/2"-13 UNC, 2A galvanized Grounding Bolt and Lock Washer are provided.

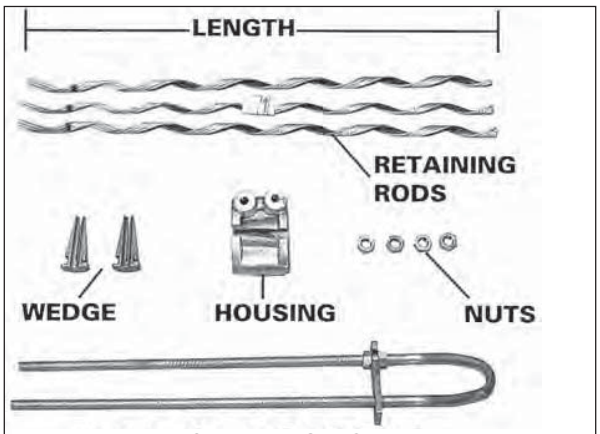
Grounding Wire Assembly Options: A 4' ground wire assembly can be connected from the FIBERLIGN Dead-end to the ground lead in your system. Two types of ground materials are offered (copper or aluminum). To included the preferred ground wire assembly in the same carton with the Dead-end, add the appropriate suffix code to the Dead-end catalog number.

Adjustment: The U-Bolt provides up to 18 inches of take-up to allow for tension adjustment and extra clearance distance without the need for external hardware such as a turnbuckle or extension links.

Component Strength: The value shown in the table on the following page reflects the strength of the standard housing and U-bolt. Higher strength requirements can be accommodated. Contact PLP® for more information.

Holding Strength: Specific holding strengths on an OPGW cable will depend upon that cable's internal construction design and composition of the materials used for the individual strands. The highest holding capabilities exist with cables that use all aluminum clad steel strands in a single layer. Use of multiple layers and/or aluminum alloy strands may reduce holding capabilities. Consult PLP for information regarding holding abilities of the FIBERLIGN OPGW Dead-end for a specific OPGW design.

NOMENCLATURE



U-BOLT WITH SPACER BAR

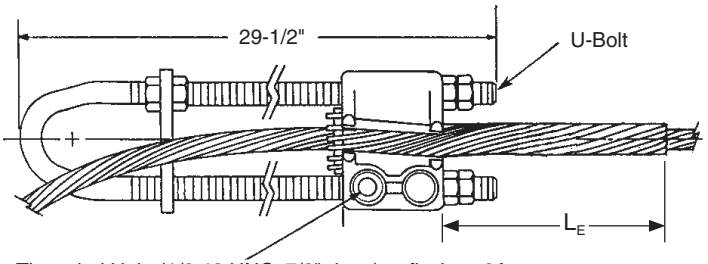
Lay Direction: Left-hand lay is standard. Custom right-hand lay units are available. Contact PLP with cable specifications for further information.

Attachment Fittings: The dead-end U-bolt component should be applied over pins, sheave wheels, or other fittings that have smooth contours, appropriate diameters and adequate strength for proper fit and support under loading conditions.

- For 5/8" U-bolts used in standard dead-ends designed for cable diameters less than or equal to .749" diameter – Adequate fitting or pin diameters range from 5/8" to 1-7/8".
- For 3/4" U-bolts used in standard dead-ends designed for cable diameters greater than .749" diameter cable - Adequate fitting or pin diameters range from 5/8" to 13/16".
- For either U-bolt size connected to a vang or structure plate, the holes in the plate should be chamfered - an example of an acceptable plate is maximum thickness of 1-1/16" (27 mm), Hole diameter 1" (25 mm), Chamfer 1/8" x 45° (3.2 mm x 45°), and Installation clearance 1-15/16" (24 mm).

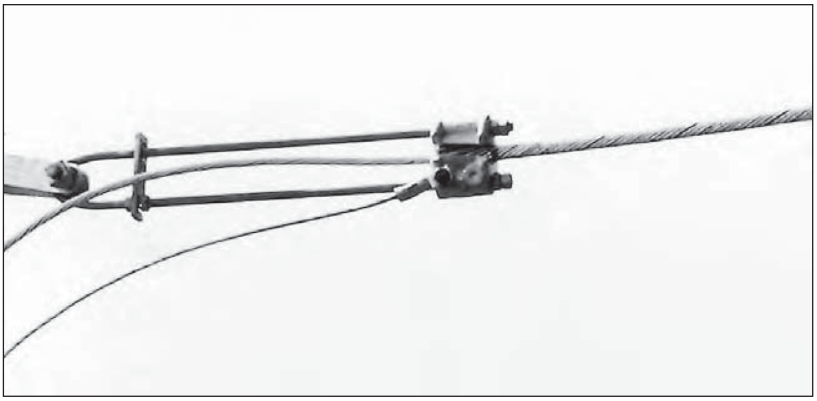
Consult PLP® for installation to other plates or fittings.

Component Reuse: The retaining rods and wedges may be reused once for retensioning after initial installation. The hardware components may be reused as desired if in good condition. Do not modify any component.



Threaded Hole (1/2-13 UNC, 7/8" deep) to fit class 2A Galvanized Bolt for Grounding Connection.

FIBERLIGN® Dead-end for OPGW



FIBERLIGN Dead-end for OPTICAL GROUND WIRE (OPGW)

Patented

Ordering Instructions:

Select the appropriate FIBERLIGN Dead-end from the catalog table in this section.Consult PLP® for designs for OPGW diameters, strengths, or lay directions not shown. Also call PLP for availability of all sizes and designs.

Accessories:

Accessories may be included in the same container with the Dead-end by adding the appropriate suffix code. Ex. 2801312G, includes Dead-end with ground wire assembly, #710010016.

CAUTION: Determine the appropriate material and size wire necessary to provide adequate grounding for your system before ordering the ground wire assemblies. For proper performance and personal safety be sure to select the proper ground wire before application.

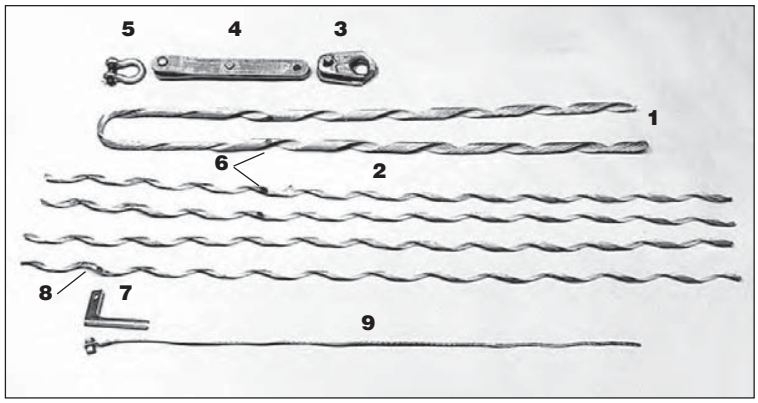
Catalog Number	Suffix Code	Description
710010016	**G**	4' long (1.2 m) #4 (7W) copper ground wire with terminal on one end.
710010294	**GA**	4' (1.2 m) long 4/0 (7W) aluminum ground wire with terminal on one end.
710011205	**GA2**	5' (1.5 m) long 95 mm^2 (19W) aluminum ground wire with terminals at both ends.

FIBERLIGN® Dead-end for OPGW

Catalog Number	Diameter Range				Overall Rod Length (in)	Rods per set	Subset	Color Code	Components Rated Strength (lbs)	Exposed Rod Length for (L_E) VORTX™ Placement	
	Min. (in)	Max. (in)	Min. (mm)	Max. (mm)						Damper (in)	Placement (mm)
280110266	.358	.374	9.1	9.5	24	9	3-3-3	Blue	25,000	21	533
2801300	.375	.391	9.5	9.9	24	9	3-3-3	Pink	25,000	21	533
2801301	.392	.410	10.0	10.3	24	9	3-3-3	Pink	25,000	21	533
2801302	.411	.425	10.4	10.7	26	10	3-3-4	White	25,000	23	584
2801303	.426	.443	10.8	11.2	26	10	3-3-4	White	25,000	23	584
2801304	.444	.460	11.3	11.6	27	10	3-3-4	Brown	25,000	24	609
2801305	.461	.477	11.7	12.0	27	10	3-3-4	Brown	25,000	24	609
2801306	.478	.494	12.1	12.5	29	11	3-4-4	Purple	25,000	26	660
2801307	.495	.511	12.6	12.9	29	11	3-4-4	Purple	25,000	26	660
2801308	.512	.528	13.0	13.3	31	12	3-3-3-3	Yellow	25,000	28	711
2801309	.529	.545	13.4	13.8	31	12	3-3-3-3	Yellow	25,000	28	711
2801310	.546	.562	13.9	14.2	32	12	3-3-3-3	Blue	25,000	29	737
2801311	.563	.579	14.3	14.6	32	12	3-3-3-3	Blue	25,000	29	737
2801312	.580	.596	14.7	15.1	34	12	3-3-3-3	Orange	25,000	31	787
2801313	.597	.613	15.2	15.5	34	12	3-3-3-3	Orange	25,000	31	787
2801314	.614	.630	15.6	15.9	36	11	3-4-4	Red	25,000	33	838
2801315	.631	.647	16.0	16.4	36	11	3-4-4	Red	25,000	33	838
2801316	.648	.664	16.5	16.9	38	12	3-3-3-3	Black	25,000	35	889
2801317	.665	.681	17.0	17.2	38	12	3-3-3-3	Black	25,000	35	889
2801318	.682	.698	17.3	17.7	40	12	3-3-3-3	Green	25,000	37	938
2801319	.699	.715	17.8	18.0	40	12	3-3-3-3	Green	25,000	37	938
2801320	.716	.732	18.1	18.5	41	12	3-3-3-3	Brown	25,000	38	965
2801321	.733	.749	18.6	18.9	41	12	3-3-3-3	Brown	25,000	38	965
2801322	.750	.766	19.0	19.4	59	12	3-3-3-3	Purple	45,000	56	1422
2801323	.767	.783	19.5	19.8	59	12	3-3-3-3	Purple	45,000	56	1422
2801324	.784	.800	19.9	20.2	64	12	3-3-3-3	Yellow	45,000	61	1549
2801325	.801	.817	20.3	20.7	64	12	3-3-3-3	Yellow	45,000	61	1549
2801326	.818	.834	20.8	21.1	66	13	3-3-3-4	Blue	45,000	63	1600
2801327	.835	.851	21.2	21.5	66	13	3-3-3-4	Blue	45,000	63	1600
2801328	.852	.868	21.6	22.0	70	12	3-3-3-3	Orange	45,000	67	1701
2801329	.869	.885	22.1	22.4	70	12	3-3-3-3	Orange	45,000	67	1701
2801330	.886	.902	22.5	22.8	72	12	3-3-3-3	Red	45,000	69	1753
2801331	.903	.919	22.9	23.2	72	12	3-3-3-3	Red	45,000	69	1753
2801332	.920	.936	23.3	23.8	74	13	3-3-3-4	Black	45,000	71	1803

See figure on page 5-3.

FIBERLIGN® Formed Wire Dead-end for OPGW



NOMENCLATURE

1. **Dead-End Component:** Aluminum Covered Steel with Grit Applied
2. **Structural Reinforcing Rods:** Aluminum Covered Steel with Grit
3. **Thimble Clevis:** Galvanized Ductile Iron
4. **Extension Link (option):** Extension Link & Pin are galvanized steel or galvanized ductile iron. A stainless steel cotter key is provided to capture the pin
5. **Anchor Shackle (option):** Galvanized steel forging
6. **Color Code And Crossover Marks**
7. **Current Transfer Tab:** High Strength Aluminum Alloy
8. **Current Transfer Tab Location Mark**
9. **Grounding Wire Assembly (option):** Copper or aluminum conductor with aluminum compatible lug

APPLICATION

The FIBERLIGN Formed Wire Dead-end offers an alternate method for dead-ending OPGW. Unlike the FIBERLIGN® Dead-end "U-Bolt Type" design shown at the beginning of this section, the Formed Wire Dead-end uses two helically shaped formed wire components: an inner layer of Structural Reinforcing Rods and an outer layer Dead-end component. The FIBERLIGN® Formed Wire Dead-end does not provide take-up adjustment.

The formed wire inner and outer layer components are designed to transfer axial tensile loads and distribute radial compressive forces over the surface in contact with the OPGW to minimize effects on the central core and internal optical fibers.

Standard designs offered for left-hand lay single layer strand OPGW are listed in the table in this section. The standard Structural Reinforcing Rod component is right-hand lay and the standard Dead-end Component is left-hand lay.

The rated breaking strength of OPGW with multi-layer strand construction may exceed the rated holding strength of a Formed Wire Dead-end. Consult PLP before using this product for multi-layer applications.

Useful dimensions for VORTX™ damper placement are listed in the catalog table and shown in a reference drawing above the catalog table.

FIBERLIGN® Formed Wire Dead-end for OPGW

FIBERLIGN Formed Wire Dead-end Installed

Current Transfer Tab:

The Current Transfer Tab provides direct electrical bonding between the OPGW and a ground lead. The Structural Reinforcing Rod Layer conveniently applies proper compression to retain the current transfer tab against the OPGW without fasteners. The current transfer tab has a 1/2" diameter bolt hole to accommodate a standard 1/2"-13, UNC bolt for compatible ground lug attachment.

The standard current transfer tab accomodates left-hand lay OPGW and is rated for 80 kA^2S to 150 kA^2S depending on size of dead-end unit. Right-hand lay units for special applications are also available. Consult PLP for specifics.

Grounding Wire Assembly Options:

A 4' long ground wire with compression terminal, 1/2"-13 x 1" long bolt, 1/2"-13 nut, and lock washer can be provided. Two types of ground wire material are offered (copper or aluminum). To order the ground wire assembly with the Formed Wire Dead-end, add the appropriate suffix code to the catalog number (see catalog table in this section).

Component Strength:

The strength of the thimble clevis, extension link, and anchor shackle are designed to meet or exceed the maximum rated holding strength of 25,000 pounds.

Holding Strength:

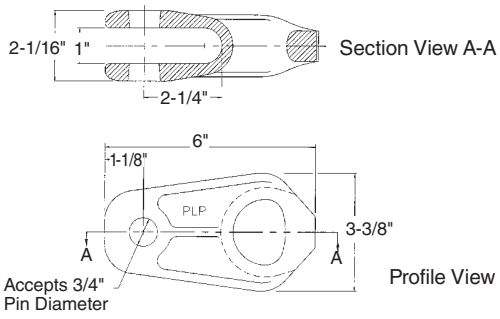
Specific holding strengths on an OPGW cable will depend upon that cable's internal construction design and composition of the materials used for the individual strands. The highest holding capabilities exist with cable that use all aluminum clad steel strands in a single layer. Use of multi-layer and/or aluminum alloy strands may reduce holding capabilities. Consult PLP for information regarding holding abilities of the FIBERLIGN FORMED WIRE Dead-end for a specific OPGW design.

Lay Direction:

Left-hand lay is standard. Right-hand lay units for right-hand lay OPGW are available. Contact PLP with cable specifications for further information.

Attachment Fittings:

Dimensions of the thimble clevis provided (cat. no. TC-6F) are shown below. These are provided for proper selection of an extension link. PLP offers a 14" extension link as listed in the accessories section following the catalog table.



TC-6F Thimble Clevis

Component Reuse:

Once installed, structural reinforcing rods and dead-end components may be removed and reinstalled once for repositioning purposes; do not reuse after this initial installation. The hardware components may be reused as long as they are in good condition. Do not modify any components.

FIBERLIGN® Formed Wire Dead-end for OPGW

Ordering Instructions:

Select the appropriate FIBERLIGN Formed Wire Dead-end for OPGW from the following table in this section.

Accessories:

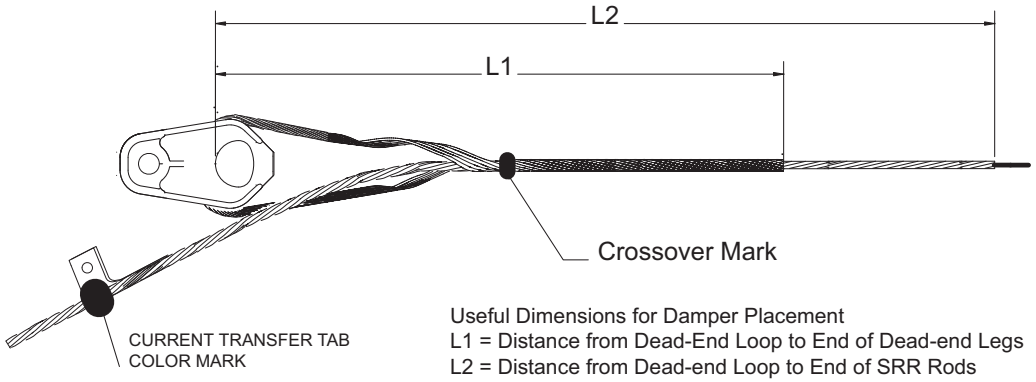
Ground wire assemblies and other hardware accessories may be ordered with the Formed Wire Dead-end by adding the appropriate SUFFIX CODE from the adjacent table. Note: Suffix code C4 is part of standard equipment and is included in the catalog number. The sequence for remaining accessory suffix codes is Extension Link "E2" followed by Anchor Shackle "S2" followed by Ground Wire Assembly "G" or "GA". Example – 2890001C4E2S2G includes a Formed Wire Dead-end with standard thimble clevis (C4), 14" extension link (E2), Anchor Shackle (S2) and copper ground wire assembly (G).

Suffix Code	Description
E2	14" (356 mm) Extension Link (Catalog no. 00060132), 25,000#
S2	Anchor Shackle (Catalog. no. 72905002), 25,000#
G	4' (1.212 m) long #4 (7W) Copper Ground Wire with terminal on one end. 1/2"-13x1-1/2" long galvanized steel bolt, hex nut and lock washer are included for attachment. (Catalog. no. 710010015). Rated for 35 kA^2S.
GA	4' (1.212 m) long 4/0 (7W) Aluminum Ground Wire with terminal on one end. 1/2"-13x1-1/2" long galvanized steel bolt, hex nut and lock washer are included for attachment. (Catalog. no. 710010293). Rated for 80 kA^2S.
GA2	5' (1.5 m) long 95 mm^2 (19w) Aluminum Ground wire with terminals at both ends.

CAUTION: Determine appropriate material and size wire necessary to provide adequate grounding for your system before ordering the ground wire assemblies. For proper performance and personal safety be sure to select the proper ground wire before application.

Catalog Number	Diameter Range				Color Code	Rated Holding Strength* (Pounds)	Overall Structural Reinforcing Rod (SRR) Length in. (M)	Useful Dimensions for VORTX™ Damper Placement		
	Min. (in)	Max. (in)	Min. (mm)	Max. (mm)				SRR Rod Diameter in. (mm)	Dead-end Component Length "L1" in. (mm)	Partial SRR Length "L2" in. (mm)
2890020C4	0.355	0.399	9.0	10.1	Blue	20,000	44 (1.12)	.114 (2.9)	34 (863)	37.0 (939)
2890001C4	0.4	0.449	10.2	11.4	Blue	20,000	49 (1.24)	.114 (2.9)	36 (914)	40.5 (1028)
2890002C4	0.45	0.504	11.5	12.8	Red	25,000	54 (1.37)	.114 (2.9)	39 (990)	45.0 (1143)
2890003C4	0.505	0.555	12.9	14.1	Orange	25,000	58 (1.47)	.114 (2.9)	42 (1066)	47.5 (1206)
2890004C4	0.556	0.61	14.2	15.5	Black	25,000	63 (1.60)	.128 (3.2)	45 (1143)	51.5 (1308)
2890005C4	0.611	0.68	15.6	17.2	Green	25,000	68 (1.73)	.128 (3.2)	49 (1244)	56.0 (1422)
2890006C4	0.681	0.755	17.3	19.1	Pink	25,000	85 (2.16)	.144 (3.7)	64 (1625)	71.5 (1816)
2890007C4	0.756	0.83	19.2	21.1	Yellow	25,000	91 (2.31)	.144 (3.7)	68 (1727)	76.0 (1930)
2890008C4	0.831	0.925	21.2	23.5	Brown	25,000	98 (2.49)	.144 (3.7)	73 (1854)	81.5 (2057)
2890009C4	0.926	1.03	23.6	26.2	Purple	25,000	107 (2.72)	.144 (3.7)	79 (2006)	89.5 (2273)

*Based on OPGW with all aluminum clad steel strands in a single layer. Left hand lay standard.

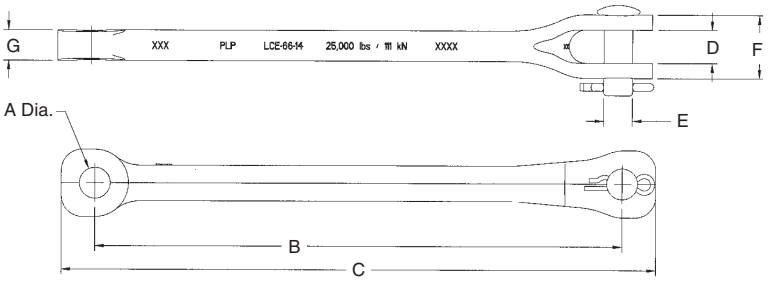


Useful Dimensions for Damper Placement
L1 = Distance from Dead-End Loop to End of Dead-end Legs
L2 = Distance from Dead-end Loop to End of SRR Rods

FIBERLIGN® Formed Wire Dead-end for OPGW

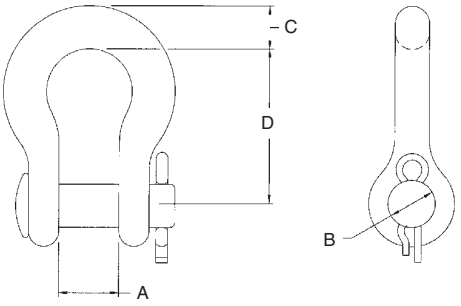
FIBERLIGN Formed Wire Dead-end Accessories

Extension Link with Pin and Cotter Key
suffix code **E2**, catalog number **LCE-66-14**



A (Dia.) In. (mm)	B In. (mm)	C In. (mm)	D In. (mm)	E In. (mm)	F In. (mm)	G In. (mm)	Ultimate Tensile Strength (lbs.)
13/16 (20.6)	14 (356)	16-1/2 max. (419)	7/8 (22.2)	3/4 (19.1)	1-43/64 (42.5)	51/64 max. (20.2)	25,000

Anchor Shackle
suffix code **S2**, catalog number **AS-5L**

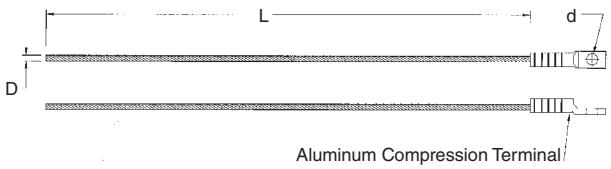


A Max. Width of Opening Inches (mm)	B Max. Pin Diameter Inches (mm)	C Shackle Thickness Inches (mm)	D Inches (mm)	Ultimate Strength (kN)
7/8" (22.2)	5/8" (15.9)	1/2" (12.7)	2-23/32 (69.1)	25,000 (111)

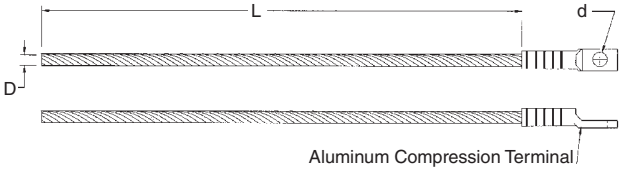
Grounding Wire Assemblies

Catalog Number	Suffix Code	Dimensions Inches				Conductor		Attachment Ground Bolt Size (supplied w/nut and lock washer)
		L Length	D Conductor Diameter	d Lug Hole Diameter	e Lug Hole Diameter	Material	Type	
710010015	G	48 (1.2 m)	.232 (6 mm)	9/16 (14 mm)	–	Copper	#4 (7W)	1/2"-13 x 1-1/2" long
710010293	GA	48 (1.2 m)	.522 (13 mm)	9/16 (14 mm)	–	Aluminum	4/0 (7W)	1/2"-13 x 1-1/2" long
710011205	GA2	60 (1.5 m)	.495 (12.5)	17/32 (13.5 mm)	11/16 (17.5 mm)	Aluminum	95 mm2 (7W)	M12 x 30 mm long M16 x 38 mm long
710012417	–	60 (1.5 m)	.528 (13.4)	17/32 (13.5 mm)	53/64 (21 mm)	Aluminum	4/0 (19W)	M18 x 40 mm long

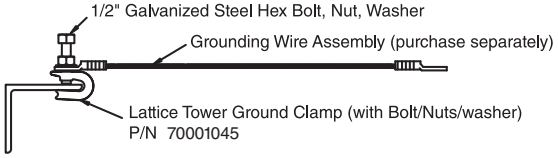
Copper

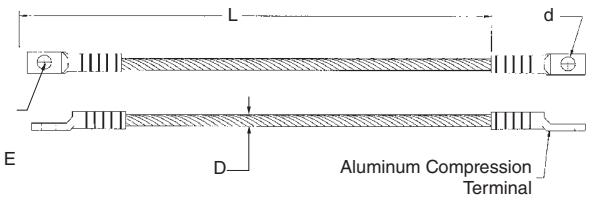


Aluminum



Light Duty Lattice Tower Clamp
Catalog No. 70001045

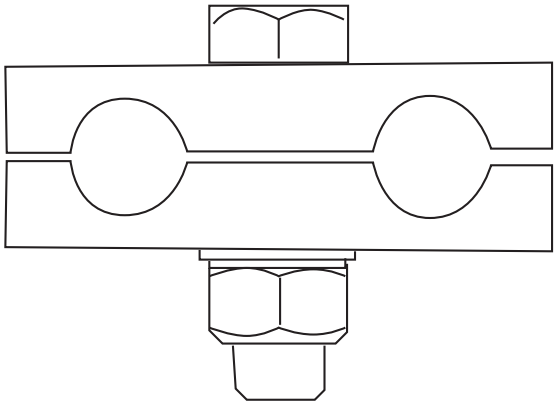




Ground Clamps

GENERAL RECOMMENDATIONS

- Designed For OPGW cable
- Installation torque: 25 ft.-lbs.
- Groove contains oxide inhibitor
- Aluminum alloy material
- 2 Grooves



Groove A:		
OPGW Diameter	Range mm	Inches
A	8.3 – 9.3	0.328 – 0.372
B	9.4 – 10.6	0.373 – 0.418
C	10.7 – 11.8	0.419 – 0.464
D	11.9 – 12.9	0.465 – 0.510
E	13.0 – 14.1	0.511 – 0.557
F	14.2 – 15.2	0.558 – 0.600
H	15.3 – 16.5	0.601 – 0.646
I	16.6 – 17.5	0.647 – 0.690
J	17.6 – 18.3	0.691 – 0.720
K	18.4 – 19.0	0.721 – 0.750
L	19.1 – 20.2	0.751 – 0.796

Groove B:		
Ground Wire	Range mm	Inches
1	3.9 – 5.1	.155 – .203
2	5.2 – 9.8	.204 – .385
3	9.9 – 10.6	.386 – .418
4	10.7 – 11.8	.419 – .464
5	11.9 – 13.0	.465 – .512
6	13.1 – 14.1	.513 – .557
7	14.2 – 15.2	.558 – .600
8	15.3 – 16.4	.601 – .646
9	16.5 – 17.5	.647 – .690

Ordering Guidelines **GC – XX**

Groove A Diameter

Groove B Ground Wire

Optical Tension Device (OTD)

For OPGW Fiber Cable

Material

Body: High strength aluminum alloy
Bolts: High strength forged steel
Bail: High strength steel

The Optical Tension Device is designed for pulling OPGW fiber cable to final sag tension. Once the final sag has been achieved, a permanent type dead-end device should be installed promptly, followed by the removal of the tensioning device. This device should not be subjected to sag tension for an extended time period and it should never be utilized as a permanent dead-end device.

When installing the unit, partially tighten successive eye bolts in the following torque sequence:

First Sequence to 20 ft/lbs.
Second Sequence to 30 ft/lbs.
Final Torque to 40 ft/lbs.

OPGW Cable Range

8.890 – 20.820 mm
0.350 – 0.820 inches

Load Rating

50% of the rated cable breaking strength or 5000 lbs. (22.4 kN) whichever is less.

Safety Tips

- Check for cracks and chipped areas along the cable groove and eyebolt areas. Do not reuse if any of these conditions exist
- Eyebolts should be kept clean and lubricated
- Conductor grooves should be clean and dry

After six months use and prior to each job, all Optical Tension Devices should be subjected to a pull test equal to its rated strength. If any damage is found the device should be disposed of or sent to PLP for possible rework and re-qualification.

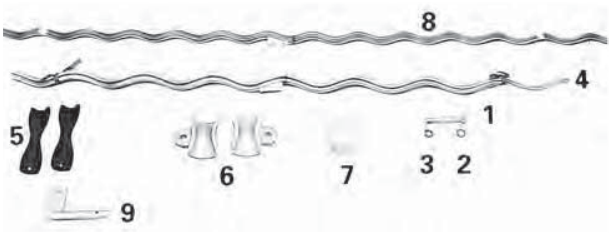
Ordering Guidelines OTD – X – XXX

OPGW Supplier
A – Alcoa - Fujikura
B – Brugg
C – Siemans
P – Prysmian
S – SFPOC
O – Other

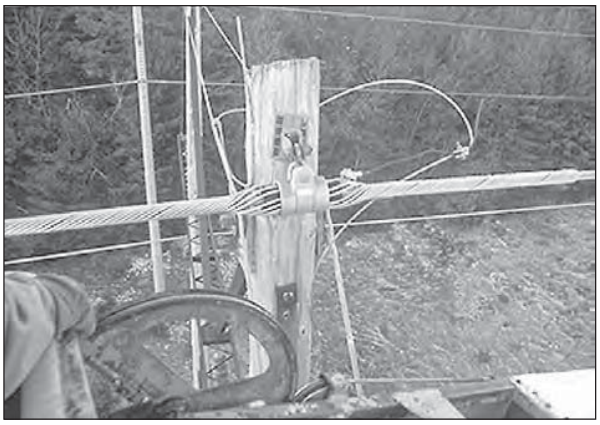
Cable Diameter
(in inches)

FIBERLIGN® Suspension for OPGW

NOMENCLATURE



1. Bolt
2. Lock washer
3. Lock nut
4. Outer Rods
5. Insert
6. Housing
7. Strap
8. Structural Reinforcing Rods
9. Current Transfer Tab (for OPGW only)



Single Fiberlign Suspension for Optical Ground Wire (OPGW)

Bolt, Washer, Lock Nut: Galvanized Steel.

Strap: High-strength Aluminum Alloy.

Insert: An elastomer specifically formulated for resistance to ozone attack, weathering, extreme high and low temperature variations, and compression set. An Aluminum Alloy reinforcement is molded into the elastomer.

Housing: High-strength aluminum alloy casting

Structural reinforcing rods and outer rods: High-strength Aluminum Alloy.

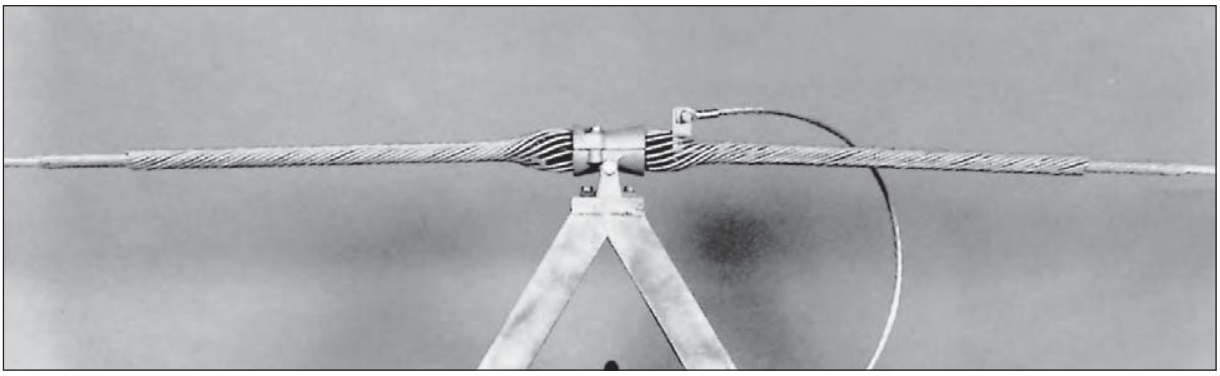
Current Transfer Tab: (Supplied for OPGW Applications only) High Strength Aluminum Alloy.

APPLICATION

The FIBERLIGN Suspension provides superior cable and fiber protection at the support point. The combination of Structural Reinforcing Rods, Outer Rods, boltless housing and resilient inserts reduces compression, clamping, and bending stresses on cable. Negative weather related cable motion, such as aeolian vibration, galloping, and wind sway are also minimized.

The FIBERLIGN Suspension is specially designed for supporting all installations of Optical Ground Wire (OPGW). Due to different performance requirements and cable characteristics OPGW and ADSS cables require different design FIBERLIGN Suspension Units.

For trunnion or bracket mounting, a FIBERLIGN Trunnion Support for OPGW is available. This unit has a housing designed to fit a trunnion cap or bracket with dimensions consistent with those specified in ANSI C29.7-1986, Class 57. Consult PLP® for specific information.



Trunnion mount FIBERLIGN Support for OPGW

FIBERLIGN® Suspension for OPGW

Double FIBERLIGN Suspension for Optical Ground Wire (OPGW)

The Current Transfer Tab provides direct electrical bonding between OPGW and a ground lead. The current transfer tab eliminates current transfer through components of the suspension unit. The standard current transfer tab accommodates left-hand lay OPGW. Right-hand lay and larger units for special applications are also available. Consult PLP for specifics.

The current transfer tab is not required or supplied for ADSS applications.

Grounding Wire Assembly Options:

A 4' ground wire with compression terminal can be provided. This assembly can be connected from the FIBERLIGN Suspension to the ground lead in your system. Two types of ground wire materials are offered (copper or aluminum). To include the preferred ground wire assembly in the same carton with the current transfer tab, add the appropriate suffix code to the suspension catalog number (see table on next page).

Ultimate Vertical Strength & Housing & Fitting Dimensions:

Refer to dimensional table in this section.

Lay Direction:

Left-hand lay is standard although FIBERLIGN Suspension or Support units for OPGW may be used on right-hand lay OPGW at reduced slip loads, or custom ordered right-hand lay units are available.

Slip Load:

When initially installed, the FIBERLIGN Suspension has a slip load of approximately 10-20% of a standard OPGW rated strength, but significantly higher loads can be expected after the unit has been in service for a period of time.

Line Angles:

The maximum recommended line angle for a single FIBERLIGN Suspension is 30°. For OPGW line angles between 30° and 60°, the FIBERLIGN Suspension: Double is recommended, although double dead-ending is another option. Double units for ADSS cable are available on custom order although double dead-ends are also an option.

Fittings:

An appropriate fitting such as a Y-clevis or clevis eye may be required to attach the Suspension unit to the structure or other hardware. These fittings must match the dimensions of the suspension housing. (See dimensional tables on next page)

Fitting Suffix Codes:

To include the Y-clevis and clevis-eye fittings in the same carton with the suspensions, add the appropriate suffix code to the suspension catalog number (see table on next page).

Component Reuse:

Once installed, do not reuse the rod components. The hardware components may be reused as desired as long as they are in good condition. Do not modify any components.

FIBERLIGN® Suspension for OPGW

Single and Double FIBERLIGN Suspensions for OPGW

Ordering Instructions:

Select the appropriate FIBERLIGN Suspension for OPGW from the following table. Consult PLP® for trunnion or bracket type mounting OPGW applications and for the availability of all sizes and designs.

Accessories and Fittings:

Ground wire assemblies and fittings may be included in the same container with the suspension by adding the appropriate SUFFIX CODE from the adjacent table. **Note:** the suffix sequence is grounding wire first and fittings second. Example – 4300100GYC includes a 4300100 single suspension with copper ground wire assembly (G) and Y-clevis eye (YC).

Suffix Code	Description
G	4' (1.2 m) long #4 (7W) Copper with terminal on one end. Catalog #710010015
GA	4' (1.2 m) long 4/0 (19W) Aluminum conductor with terminal on one end. Catalog #710010293
GA2	5' (1.5 m) long 95 mm^2 (7w) Aluminum Ground wire with terminals at both ends

CAUTION: Determine appropriate material and size wire necessary to provide adequate grounding for your system before ordering the ground wire assemblies. For proper performance and personal safety be sure to select the proper ground wire before application.

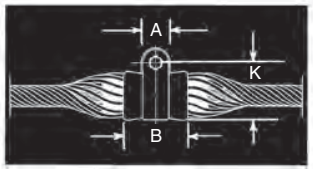
S2	Anchor Shackle (Catalog no 72905002), 25,000#
YC	One (1) Y-clevis to fit selected suspension. Single suspension applications.
CE	One (1) clevis-eye to fit selected suspension. Single suspension applications.
CEYP	Two (2) clevis-eyes with yoke plate to fit selected suspension. Double suspension applications.

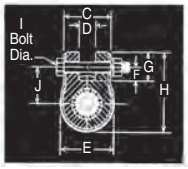
Catalog Number		Diameter Range				Structural Reinforcement Rods					Outer Rods				
Single	Double	Min. (in)	Max. (in)	Min. (mm)	Max. (mm)	Single Length (in)	Double Length (in)	Rod Dia. (in)	Rods per set	Color Code	Single Length (in)	Double Length (in)	Rod Dia. (in)	Rods per set	Color Code
4300100	4300200	.354	.381	8.9	9.6	66	84	.146	9	Blue	42	60	.204	11	Blue
4300101	4300201	.382	.398	9.7	10.1	66	84	.146	9	Green	42	60	.204	11	Green
4300102	4300202	.399	.418	10.2	10.6	66	84	.146	10	Yellow	42	60	.204	11	Yellow
4300103	4300203	.419	.439	10.7	11.1	67	84	.146	10	Black	42	60	.204	11	Black
4300104	4300204	.440	.458	11.2	11.6	68	84	.146	11	White	43	61	.204	11	White
4300105	4300205	.459	.461	11.7	11.7	72	90	.167	10	Purple	46	64	.250	10	Orange
4300106	4300206	.462	.476	11.8	12.0	72	90	.167	10	Purple	46	64	.250	10	Purple
4300107	4300207	.477	.503	12.1	12.7	73	90	.146	11	Orange	46	64	.250	10	Orange
4300108	4300208	.504	.511	12.8	12.9	76	90	.146	12	Red	46	64	.250	10	Purple
4300109	4300209	.512	.536	13.0	13.6	76	94	.167	11	Blue	49	67	.250	11	Blue
4300110	4300210	.537	.559	13.7	14.1	77	94	.167	11	Green	49	67	.250	11	Green
4300111	4300211	.560	.565	14.2	14.3	77	94	.167	11	Green	49	67	.250	11	Green
4300112	4300212	.566	.573	14.4	14.5	79	102	.182	11	Black	54	76	.250	12	Black
4300113	4300213	.574	.598	14.6	15.1	79	102	.182	11	Black	54	76	.250	12	White
4300114	4300214	.599	.625	15.2	15.8	81	102	.182	11	Brown	54	76	.250	12	Brown
4300116	4300216	.626	.632	15.9	16.0	94	120	.204	11	Red	63	89	.310	11	Red
4300117	4300217	.633	.666	16.1	16.9	94	120	.204	11	Red	63	89	.310	11	Blue
4300118	4300218	.667	.682	17.0	17.3	94	120	.204	11	Yellow	63	89	.310	11	Green
4300119	4300219	.683	.710	17.4	18.0	94	120	.204	11	Yellow	63	89	.310	11	Yellow
4300120	4300220	.711	.728	18.1	18.4	94	120	.204	12	White	63	89	.310	12	Black
4300121	4300221	.729	.744	18.5	18.8	94	120	.204	12	White	63	89	.310	12	White
4300122	4300222	.745	.750	18.9	18.9	94	120	.204	12	White	63	89	.310	12	White
4300123	4300223	.751	.786	19.0	19.9	94	120	.204	12	Brown	63	89	.310	12	Brown
4300124	4300224	.787	.814	20.0	20.6	100	129	.250	11	Green	72	101	.365	11	Green
4300125	4300225	.815	.845	20.7	21.4	100	129	.250	11	Yellow	72	101	.365	11	Yellow
4300126	4300226	.846	.855	21.5	21.6	100	129	.250	11	Blue	72	101	.365	12	Blue
4300127	4300227	.856	.894	21.7	22.6	100	132	.250	12	Black	80	112	.365	12	Black
4300128	4300228	.895	.907	22.7	22.9	100	132	.250	12	White	80	112	.365	12	White
4300129	4300229	.908	.916	23.0	23.2	100	132	.250	12	Purple	80	112	.365	12	Purple
4300153	4300253	.917	.929	23.3	23.5	100	132	.250	12	Brown	80	112	.365	12	Brown
4300154	4300254	.930	.942	23.6	23.9	100	132	.250	12	Red	80	112	.365	12	Red
4300155	4300255	.943	.977	24.0	24.7	100	132	.250	13	Orange	80	112	.365	13	Orange

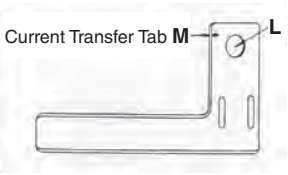
Left-hand lay standard

FIBERLIGN® Suspension Housing Dimensions & Fittings

FIBERLIGN Suspension – Dimensional Tables





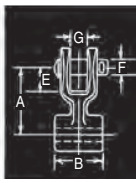


OPGW or ADSS Cable Diameter Range Inches (mm)		Dimensions Inches (mm)													Ultimate Vertical Strength (Lbs.)
Min.	Max.	A	B	C	D	E	F	G	H	I Bolt Dia.	J	K	L	M	
.354 (9)	.458 (11.6)	1-3/4 (44.5)	3-3/4 (95.3)	2-1/4 (57.2)	3/4 (19.1)	2-3/16 (55.6)	1 (25.4)	1-7/8 (47.6)	4-7/16 (112.7)	5/8 (15.9)	2-5/32 (54.8)	3-9/16 (90.5)	9/16 (14.3)	.090 (2.3)	15,000
.459 (11.7)	.565 (14.3)	2 (50.8)	4-17/32 (115.1)	2-11/16 (68.3)	7/8 (22.2)	3-5/16 (84.1)	1 (25.4)	2 (50.8)	5 (127)	5/8 (15.9)	2-11/32 (59.5)	4 (101.6)	9/16 (14.3)	.090 (2.3)	20,000
.566 (14.4)	.625 (15.8)	2 (50.8)	5 (127)	2-15/16 (74.6)	7/8 (22.2)	3-11/16 (93.7)	1 (25.4)	2 (50.8)	5-3/8 (136.5)	5/8 (15.9)	2-17/32 (64.3)	4-3/8 (111.1)	9/16 (14.3)	.090 (2.3)	20,000
.626 (15.9)	.786 (19.9)	2-1/4 (57.2)	5-1/2 (139.7)	3-1/2 (88.9)	1-3/16 (30.2)	4-5/32 (105.6)	1 (25.4)	2-1/8 (54)	5-29/32 (150)	5/8 (15.9)	2-45/64 (68.7)	4-25/32 (121.4)	9/16 (14.3)	.090 (2.3)	25,000
.787 (20)	.977 (24.8)	2-1/4 (57.2)	6 (152.4)	3-5/8 (92.1)	1-1/4 (31.8)	4-13/16 (122.2)	1-1/4 (31.8)	2-3/8 (60.3)	6-11/16 (169.9)	3/4 (19.1)	3-5/32 (80.2)	5-9/16 (141.3)	9/16 (14.3)	.090 (2.3)	25,000
.978 (24.9)	1.016 (25.8)	2-1/4 (57.2)	6-1/2 (165.1)	4-1/8 (104.8)	1-3/8 (34.9)	5-1/16 (128.6)	1-1/8 (28.6)	2-1/4 (57.2)	6-5/8 (168.3)	3/4 (19.1)	2-21/32 (67.5)	5-1/2 (139.7)	N/A	N/A	25,000
1.017 (25.9)	1.057 (26.8)	2-1/4 (57.2)	6-1/2 (165.1)	4-1/8 (104.8)	1-3/8 (34.9)	5-1/16 (128.6)	1-1/8 (28.6)	2-1/4 (57.2)	6-5/8 (168.3)	3/4 (19.1)	2-21/32 (67.5)	5-1/2 (139.7)	N/A	N/A	25,000
1.058 (26.9)	1.079 (27.4)	2-1/2 (63.5)	7 (177.8)	4-11/16 (119.1)	2-1/4 (57.2)	5-19/32 (142.1)	1-1/8 (28.6)	2-3/8 (60.3)	7-1/4 (184.2)	3/4 (19.1)	3-3/16 (81)	6 (152.4)	N/A	N/A	25,000
1.08 (27.5)	1.112 (28.2)	2-1/2 (63.5)	7 (177.8)	4-11/16 (119.1)	2-1/4 (57.2)	5-19/32 (142.1)	1-1/8 (28.6)	2-3/8 (60.3)	7-1/4 (184.2)	3/4 (19.1)	3-3/16 (81)	6 (152.4)	N/A	N/A	25,000
1.113 (28.3)	1.149 (29.2)	2-1/2 (63.5)	7 (177.8)	4-11/16 (119.1)	2-1/4 (57.2)	5-19/32 (142.1)	1-1/8 (28.6)	2-3/8 (60.3)	7-1/4 (184.2)	3/4 (19.1)	3-3/16 (81)	6 (152.4)	N/A	N/A	25,000
1.15 (29.3)	1.19 (30.2)	2-1/2 (63.5)	7 (177.8)	4-11/16 (119.1)	2-1/4 (57.2)	5-19/32 (142.1)	1-1/8 (28.6)	2-3/8 (60.3)	7-1/4 (184.2)	3/4 (19.1)	3-3/16 (81)	6 (152.4)	N/A	N/A	25,000

Fittings

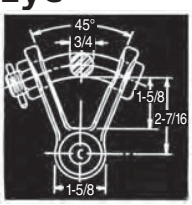
The dimensions of a fitting must correspond to some of the dimensions of the housing of the FIBERLIGN Suspension unit in order to provide proper fit. To select the proper size fitting, identify the outside diameter of the OPGW or ADSS cable and select the appropriate fitting from these tables. DO NOT use the tables in the ARMOR-GRIP® Suspension section of this catalog.

Clevis Eye



Catalog Number	OPGW or ADSS Cable Diameter Range		General Dimensions							Ultimate Vertical Strength (Lbs.)
	Min.-Max. (in)	Min.-Max. (mm)	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	F in (mm)	G in (mm)	
CE-5259	.354-.458	9-11.6	3-1/8 (79.4)	1/2 (12.7)	11/16 (17.5)	1-1/2 (38.1)	1-1/2 (38.1)	5/8 (15.9)	13/16 (20.6)	15,000
CE-5261	.459-.625	11.7-15.9	3-1/8 (79.4)	3/4 (19.1)	11/16 (17.5)	1-1/2 (38.1)	1-1/2 (38.1)	5/8 (15.9)	13/16 (20.6)	20,000
CE-5105	.626-1.057	16.0-26.8	3-1/8 (79.4)	1-1/16 (27)	13/16 (20.6)	1-1/2 (38.1)	1-1/2 (38.1)	5/8 (15.9)	13/16 (20.6)	25,000
CE-5106	1.058-1.208	26.9-30.7	3-1/8 (79.4)	2-1/8 (54)	13/16 (20.6)	1-1/2 (38.1)	1-1/2 (38.1)	5/8 (15.9)	13/16 (20.6)	25,000

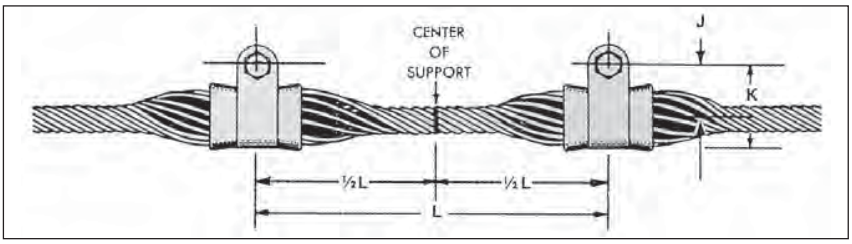
Y-Clevis Eye



Catalog Number	OPGW or ADSS Cable Diameter Range		General Dimensions		Ultimate Vertical Strength (lbs.)
	Min.-Max. (in)	Min.-Max. (mm)	B in (mm)	C in (mm)	
YC-5206	.354-.458	9.0-11.6	5/8 (15.9)	11/16 (17.5)	15,000
YC-5207	.459-.625	11.7-15.9	3/4 (19.1)	11/16 (17.5)	20,000
YC-5209	.626-1.057	16.0-26.8	1-1/16 (27)	13/16 (20.6)	25,000
YC-5211	1.058-1.208	26.9-30.7	2-1/8 (54)	13/16 (20.6)	25,000

FIBERLIGN® Suspension Housing Dimensions & Fittings

FIBERLIGN Suspension: Double Dimensional Tables



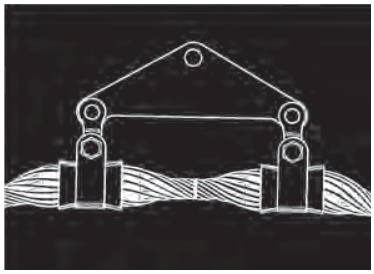
OPGW or ADSS Cable Diameter Range		Dimensions			Ultimate Vertical Strength (Lbs.)
Min.-Max. (in)	Min.-Max. (mm)	J in. (mm)	K in. (mm)	L in. (cm)	
.354-.458	9.0-11.6	2-5/32 (54.8)	3-9/16 (90.4)	18 (45.7)	30,000
.459-.565	11.7-14.4	2-11/32 (59.5)	4 (101.6)	18 (45.7)	40,000
.566-.625	14.5-15.9	2-17/32 (64.3)	4-3/8 (111.1)	22 (55.9)	40,000
.626-.786	16.0-20.0	2-45/64 (68.7)	4-25/32 (121.4)	26 (66.0)	50,000
.787-.855	20.1-21.7	3-5/32 (80.2)	5-9/16 (141.3)	29 (73.7)	50,000
.856-1.057	21.8-26.8	2-31/32 (75.4)	5-1/2 (139.7)	32 (81.3)	50,000
1.058-1.208	26.9-30.7	3-3/16 (81.0)	6 (152.4)	37 (94.0)	50,000

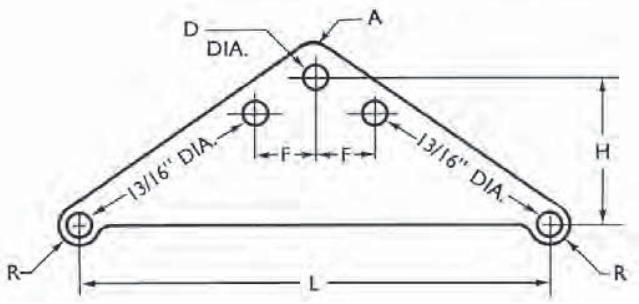
Fittings

The "L" dimension of a Yoke Plate must match the "L" dimension between the two housings of the Double Suspension unit. Identify the outside diameter of the OPGW or ADSS cable and select the proper "L" dimension and Yoke Plate from these tables. DO NOT use the tables in the ARMOR-GRIP® Suspension section of this catalog.

A Fitting, such as a Clevis Eye, is required between each Suspension housing and the Yoke Plate. Refer to the tables on for proper fitting selection. Another fitting may be required between the Yoke Plate and structure.

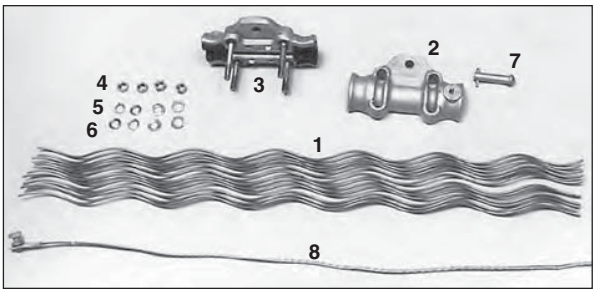
Yoke Plate





Catalog Number	OPGW or ADSS Cable Diameter Range		Dimensions						Plate Thickness in. (mm)
	Min.-Max. (in)	Min.-Max. (mm)	L in. (cm)	H in. (cm)	D in. (mm)	R in. (mm)	Radius A in. (mm)	F in. (cm)	
YP-5908	.354-.565	9.0-14.4	18 (45.7)	6-1/4 (15.9)	1 (25.4)	15/16 (23.8)	1-1/4 (31.8)	3-1/2 (8.9)	5/8 (15.9)
YP-5909	.566-.625	14.5-15.9	22 (55.9)	7-1/4 (18.4)	1 (25.4)	15/16 (23.8)	1-1/4 (31.8)	4-3/16 (10.6)	5/8 (15.9)
YP-5910	.626-.786	16.0-20.0	26 (66.0)	8-1/2 (21.6)	1 (25.4)	15/16 (23.8)	1-1/4 (31.8)	4-15/16 (12.5)	3/4 (19.1)
YP-5911	.787-.855	20.1-21.7	29 (73.7)	9-1/2 (24.1)	1 (25.4)	15/16 (23.8)	1-1/4 (31.8)	5-1/2 (14.0)	3/4 (19.1)
YP-5912	.856-1.057	21.8-26.8	32 (81.3)	10-1/2 (26.7)	1 (25.4)	15/16 (23.8)	1-1/4 (31.8)	6-1/8 (15.6)	3/4 (19.1)
YP-5913	1.058-1.208	26.9-30.7	37 (94.0)	11-3/4 (29.8)	1 (25.4)	15/16 (23.8)	1-1/4 (31.8)	7-1/16 (17.9)	3/4 (19.1)

FIBERLIGN® Cushion Clamp for OPGW



FIBERLIGN Cushion Clamp installed

NOMENCLATURE

1. **Structural Reinforcing Rods:** High strength aluminum alloy.
2. **Cushion Clamp (keeper half):** An aluminum alloy clamp half with two factory installed elastomer cushion inserts and a 1/2"-13 female threaded boss for ground wire attachment. A galvanized 1/2"-13 x 3/4" long grounding bolt and lock washer are provided.
3. **Cushion Clamp (U-bolt half):** An aluminum alloy clamp half with two factory installed elastomer cushion inserts and two captured 1/2"-13 galvanized steel U-bolts.
4. **1/2"-13 Hex Nuts (4):** Galvanized steel.
5. **Lock Washers (4):** Galvanized steel.
6. **Flat Washers (4):** Galvanized steel.
7. **Pin and Cotter Key:** Pin is galvanized steel and Cotter Key is stainless steel.
8. **Grounding Wire Assembly (ordered separately)**

APPLICATION

The FIBERLIGN Cushion Clamp provides excellent protection to OPGW at support points. The combination of the Structural Reinforcing Rods and the elastomer inserts at the ends of the clamp body halves reduces bending stresses on the OPGW during aeolian vibration or galloping activity.

Bonding:

Provisions for electrically bonding the OPGW to the supporting structure or ground lead are an integral part of the keeper half. The 1/2"-13 x 3/4" long bolt and lock washer are provided with the keeper half for lug terminal attachment.

Grounding Wire Assembly Options:

A 4' ground wire with compression terminal can be provided. Two types of ground wire material are offered (copper or aluminum). The Ground Wire assemblies may be ordered with the Cushion Clamp by adding the appropriate suffix code (see next page).

Ultimate Vertical Strength & Dimensions:

The ultimate vertical strength of the Cushion Clamp body is 20,000 pounds (89 kN). See the table on page 5-19 for dimension of body and associated fittings.

Lay Direction:

The Cushion Clamp can accommodate either left-hand lay or right-hand lay OPGW.

Slip Load:

The Cushion Clamp has a slip load of approximately 10-20% of the OPGW rated strength.

Line Angles:

The maximum recommended line angle for a single FIBERLIGN Cushion Clamp is 30°. For OPGW line angles between 30° and 60°, the Cushion Clamp double is available, although double dead-ending is another option.

Fittings:

An appropriate fitting such as a Y-Clevis, Clevis-Eye, or Anchor Shackle may be required to attach the Cushion Clamp to the structure or other hardware. To include these fittings, add the appropriate suffix code to the catalog number (see next page).

Component Reuse:

Once installed, do not reuse the Structural Reinforcing Rods. The hardware components may be reused as long as they are in good condition. Do not modify any components.

FIBERLIGN® Cushion Clamp for OPGW

Single and Double FIBERLIGN Cushion Clamp for OPGW

Ordering Instructions:

Select the appropriate FIBERLIGN Cushion Clamp for OPGW from the following table.

Accessories and Fittings:

Ground wire assemblies and fittings may be ordered with the Cushion Clamp by adding the appropriate SUFFIX CODE from the adjacent table. Note: the suffix sequence is ground wire first and fittings second. Example - 4700100GYC includes a 4700100 Single Cushion Clamp with copper ground wire assembly (G) and Y-Clevis (YC).

Suffix Code	Description
G	4' (1) long #4 (7W) Copper Ground Wire with terminal on one end. Catalog No. 710010016
GA	4' (1) long 4/0 (7W) Aluminum Ground Wire with terminal on one end. Catalog No. 710010294
GA2	5' (1.5) long 95 mm^2 (19W) Aluminum Ground Wire with terminals at both ends

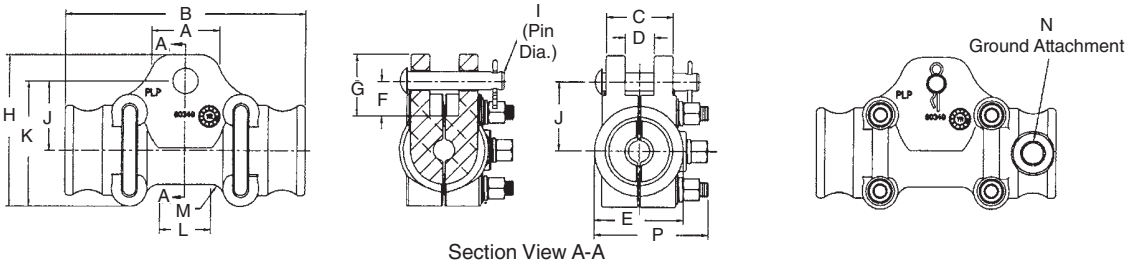
CAUTION: Determine appropriate material and size wire necessary to provide adequate grounding for your system before ordering the ground wire assemblies. For proper performance and personal safety be sure to select the proper ground wire before application.

S2	Anchor Shackle (Catalog no 72905002), 25,000#
YC	One (1) Y-clevis to fit selected suspension. Single suspension.
CE	One (1) clevis-eye to fit selected suspension. Single suspension.
CEYP	Two (2) clevis-eyes with yoke plate to fit selected suspension. Double suspension.

Catalog Number		Diameter Range				Structural Reinforcing Rods				
Single	Double	Min. (in)	Max. (in)	Min. (mm)	Max. (mm)	Single Length	Double Length	Rod Dia.	Rods per Set	Color Code
4700100	4700200	0.376	0.387	9.6	9.8	31	60	0.204	7	Orange
4700101	4700201	0.388	0.429	9.9	10.9	32	61	0.182	8	Red
4700102	4700202	0.430	0.459	11.0	11.6	33	62	0.167	9	Black
4700103	4700203	0.460	0.482	11.7	12.2	34	63	0.154	10	Green
4700104	4700204	0.483	0.507	12.3	12.8	35	64	0.182	10	Yellow
4700105	4700205	0.508	0.537	12.9	13.6	36	65	0.167	11	Purple
4700106	4700206	0.538	0.563	13.7	14.3	37	66	0.154	12	Pink
4700107	4700207	0.564	0.585	14.4	14.8	39	68	0.182	11	Brown
4700108	4700208	0.586	0.615	14.9	15.6	40	69	0.167	12	Blue
4700109	4700209	0.616	0.641	15.7	16.3	41	70	0.154	13	Orange
4700110	4700210	0.642	0.664	16.4	16.8	44	73	0.182	12	Red
4700111	4700211	0.665	0.694	16.9	17.6	45	74	0.167	13	Black
4700112	4700212	0.695	0.720	17.7	18.3	46	75	0.154	15	Green
4700113	4700213	0.721	0.742	18.4	18.8	48	77	0.182	13	Yellow
4700114	4700214	0.743	0.772	18.9	19.6	50	79	0.167	14	Purple
4700115	4700215	0.773	0.798	19.7	20.2	51	80	0.154	15	Pink
4700116	4700216	0.799	0.822	20.3	20.8	52	81	0.182	14	Brown
4700117	4700217	0.823	0.855	20.9	21.7	54	83	0.167	16	Blue
4700118	4700218	0.856	0.885	21.8	22.4	55	84	0.146	19	Orange
4700119	4700219	0.886	0.911	22.5	23.1	56	85	0.167	16	Red
4700120	4700220	0.912	0.941	23.2	23.9	57	86	0.154	19	Black
4700121	4700221	0.942	0.975	24.0	24.7	58	87	0.146	20	Green
4700122	4700222	0.976	1.005	24.8	25.5	60	89	0.167	18	Yellow
4700123	4700223	1.006	1.034	25.6	26.3	61	90	0.154	20	Purple

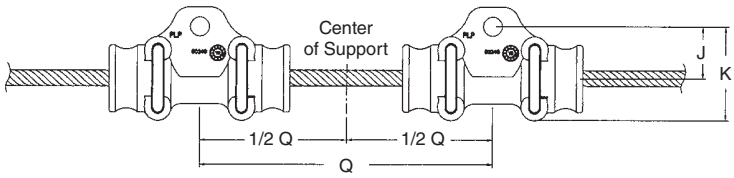
FIBERLIGN® Cushion Clamp for OPGW

FIBERLIGN Cushion Clamp Dimensions



Dimensions Inches (mm)															Ultimate Vertical Strength (Single) lbs.
A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	
2-23/64 (59.9)	8-11/32 (211.9)	2-11/32 (59.5)	59/64 (23.4)	3-7/64 (79.0)	1-5/32 (29.4)	2-1/8 (54.0)	5-1/4 (133.4)	5/8 (15.9)	2-11/32 (59.5)	3-41/64 (92.5)	1-25/32 (45.2)	31/64 (12.3)	1/2-13 UNC	3-15/16 (100.0)	20,000

FIBERLIGN Cushion Clamp: Double

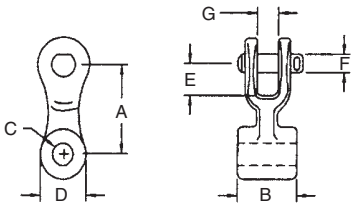


Dimension Q Inches (cm)	Ultimate Vertical Strength (Double) lbs.
22 (55.9)	40,000

Fittings & Yoke Plate

Clevis Eye

Catalog Number	Dimensions Inches (mm)							Ultimate Vertical Strength (lbs.)
	A	B	C	D	E	F	G	
CE-5261	3-1/8 (79.4)	3/4 (19.1)	11/16 (17.5)	1-1/2 (38.1)	1-1/2 (38.1)	5/8 (15.9)	13/16 (20.6)	20,000

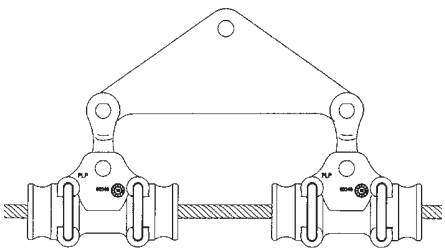


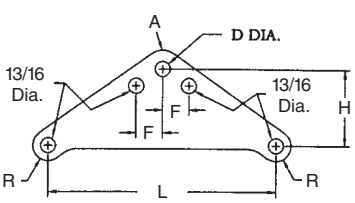
Yoke Plate

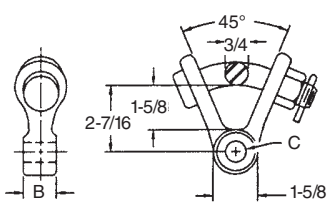
Catalog Number	Dimensions Inches (cm)						Plate Thickness
	L	H	D	R	Radius A	F	
YP-5909	22 (55.9)	7-1/4 (18.4)	1 (25.4)	15/16 (23.8)	1-1/4 (31.8)	4-3/16 (10.6)	5/8 (15.9 mm)

Y-Clevis Eye

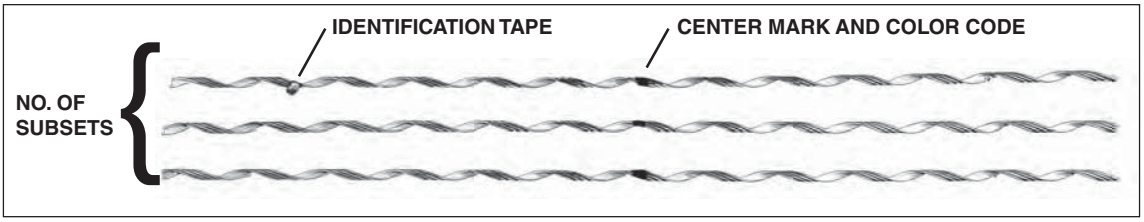
Catalog Number	Dimensions Inches (mm)		Ultimate Vertical Strength (lbs.)
	B	C	
YC-5207	3/4 (19.1)	11/16 (17.5)	20,000







FIBERLIGN® Repair Rods for OPGW



NOMENCLATURE

Subsets: Individual aluminum clad steel rods assembled into groups. The bore is coated with conductive grit.

Center Mark: Establishes recommended alignment of rods during application.

Color code: Provides identification for application of OPGW size that corresponds to the information appearing in the table below.

Identification Tape: Shows catalog number, nominal sizes.

GENERAL RECOMMENDATIONS

FIBERLIGN Repair Rods are designed as a single-component, outer layer assembly for use on OPGW and are intended for repair of the outer mechanical strand members on an OPGW cable. **This is not an optical repair product.**

These OPGW Repair Rods are not designed or tested as splices for use on all-metal overhead shield wire and are not intended for that application.

Restorative-Repair: These Repair Rods will provide varying levels of mechanical and electrical repair depending upon the specific construction, stranding and material of the OPGW.

The extent of mechanical damage that the product can repair for single layer OPGW is up to 50% of the cable rated strength. The 50% rating is established by PLP® based on repair rod performance. Contact the OPGW cable manufacturer to verify the extent of damage that the specific cable design can survive without jeopardizing the performance of the fiber optic elements. If the cable manufacturer limits the repair level to lower than 50%, limit the use of the repair rod to the lower level for that specific cable. Consult PLP for further details.

Lay direction of the Repair Rods should be the same as the outer strands of the OPGW. Left-hand lay is standard, consult PLP for right-hand lay designs.

Repair Rods					
Catalog Number	Diameter Range (inch)	Diameter Range (mm)	Color Code	Length	
				in	M
3600100	.354-.385	8.9-9.7	Red	45	1.14
3600101	.386-.422	9.8-10.7	Black	48	1.22
3600102	.423-.460	10.8-11.6	Orange	50	1.27
3600103	.461-.505	11.7-12.8	Green	54	1.37
3600104	.506-.550	12.9-13.9	Blue	61	1.55
3600105	.551-.602	14.0-15.2	Yellow	65	1.65
3600106	.603-.660	15.3-16.7	Brown	70	1.78
3600107	.661-.719	16.8-18.2	Purple	74	1.88
3600108	.720-.785	18.3-19.9	Pink	80	2.03
3600109	.786-.850	20.0-21.5	Red	86	2.18
3600110	.851-.933	21.6-23.6	Black	94	2.39
3600111	.934-1.020	23.7-25.9	Orange	102	2.59

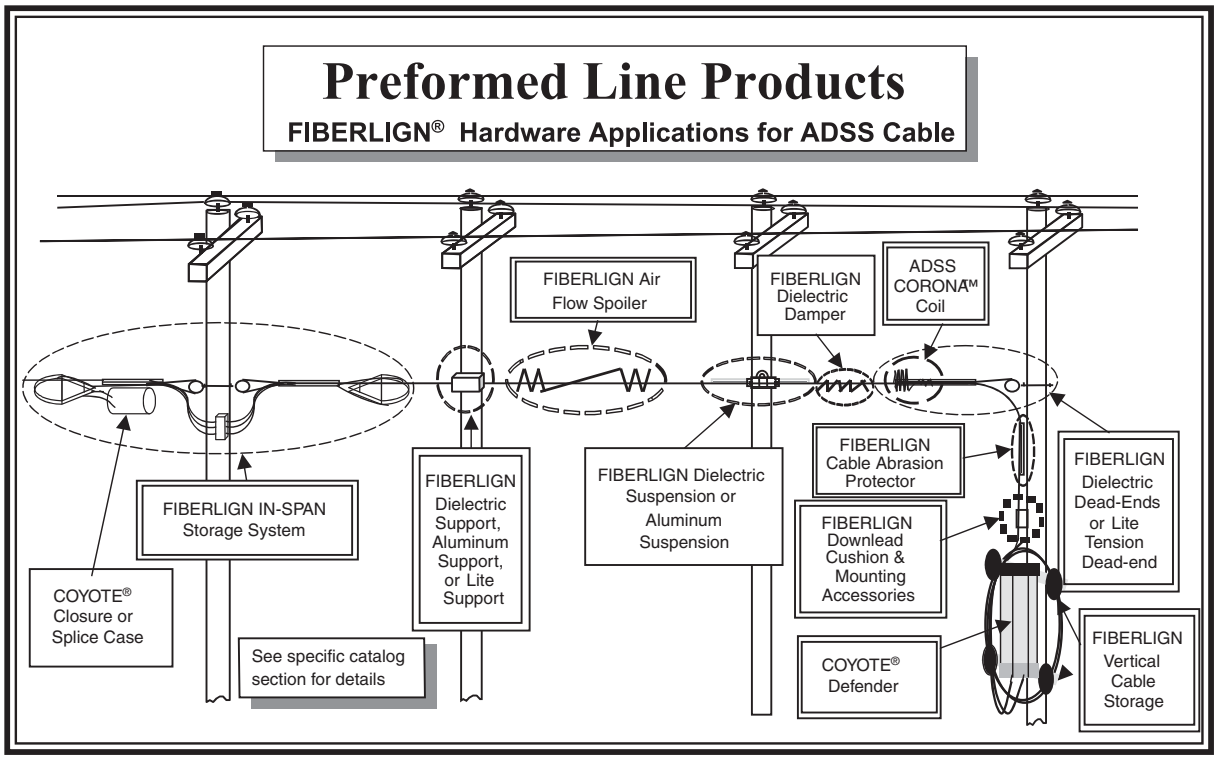
Left-hand lay standard

PREFORMED LINE PRODUCTS

Section 6 – FIBERLIGN® Hardware for ADSS

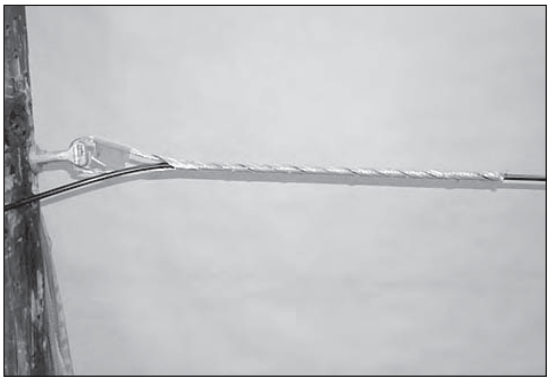
Table of Contents Page

ADSS Product Layout

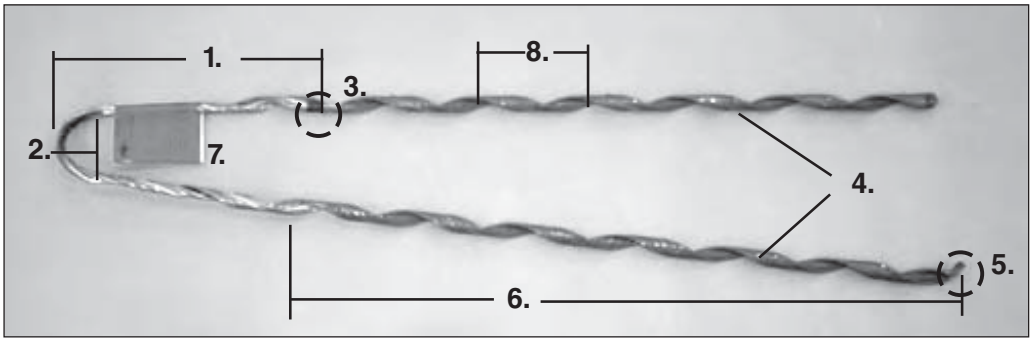


Note: For hardware accessories see section 7.

FIBERLIGN® Lite Tension Dead-end for ADSS



FIBERLIGN® Lite Tension Dead-end for All Dielectric Self-Supporting (ADSS) Fiber Optic Cable Installed



NOMENCLATURE

1. **Loop length:** Length from the color mark to the end of the loop.
2. **Loop diameter:** The loop has a formed diameter designed to interface with standard fittings.
3. **Color mark:** The dead-end color mark or crossover mark locates the beginning of dead-end contact with the cable during installation. It is used for identification as well.
4. **Dead-end legs:** The legs wrap onto the cable beginning at the crossover mark.
5. **Flared rod ends:** Special rod end treatment to prevent jacket damage.
6. **Latex coating:** Pliable coating applied over the dead-end legs.
7. **Product ID tag:** Red Tag includes product description and application information.
8. **Pitch length:** The distance along the leg that represents one complete wrap of the formed helix around the circumference of the cable (360 degrees).

APPLICATION

The FIBERLIGN Lite Tension Dead-end is a dielectric dead-end designed to terminate short span, low tension ADSS fiber optic cables in low voltage environments. Unlike the Limited, Medium, and High Tension FIBERLIGN® Dielectric Dead-end designs found later in this section, the Lite Tension Dead-end is reduced to a single layer component that offers an economical solution for very light loads. The product effectively transfers the low axial load on the cable at the end of the dead-end legs to low uniform radial compression near the dead-end loop.

Superior Fatigue Strength:

The small diameter wires that comprise each dead-end are a mixture of aluminum and aluminum clad steel to assure long term performance.

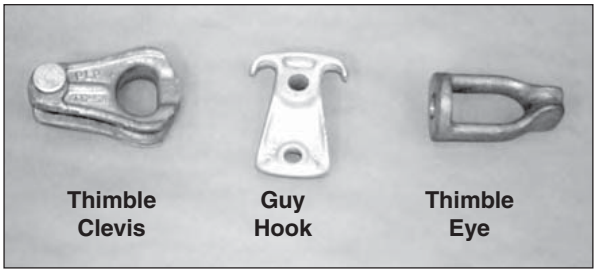
FIBERLIGN® Lite Tension Dead-end for ADSS

Dead-end performance depends upon a number of factors including cable brand and design, tension load requirements, temperature and environmental operating conditions among others.

The FIBERLIGN Lite Tension Dead-end has a pliable latex coating and flared rod end treatment that avoids possible damage to the cable jacket during and after installation.

Attaching to the Structure:

The loop diameter of the Lite Tension Dead-end will fit over a minimum diameter of 1.5" (38mm) and a maximum diameter of 2-1/4" (57 mm). The Lite Tension Dead-end is designed to accept common guy wire dead-end pole fittings like thimble eyes and guy hooks.



Appropriate Fittings:

The extended loop of the dead-end reduces the need for an extension link; however, PLP can provide other FIBERLIGN® fittings including extension links (with thimble clevis) if desired. PLP offers the TC-5F Thimble Clevis, Thimble Eye, and LCE-55-14 Extension Link.

In general, Lite Tension Dead-ends are intended for use with these conditions and limitations:

- Light Tensions, approximately:
  - 600# (2.7 kN) maximum initial (stringing/nominal axial/long-term) tension
  - 800# (3.5 kN) maximum loaded (working/loaded axial/short- term) tension
- Short Spans:
  - 300' (91 m) maximum spans
  - not recommended for critical crossing spans (highways, rivers, etc.) see Medium or High Tension Dead-ends
- Very low strength cables
- "Standard" jackets
- Most cable brands
- No excessive operating conditions, cable motion or high temperatures

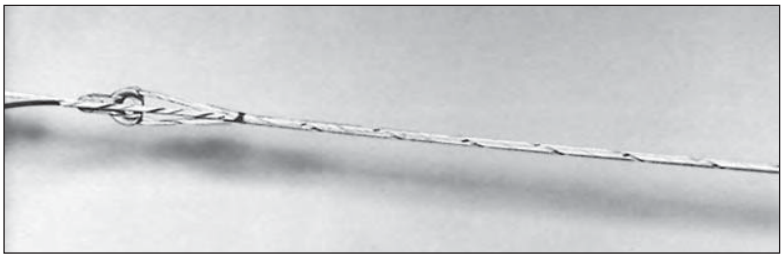
Lite Tension Dead-end features:

- Standard design parameters
- Broad cable OD ranges, listed on ID tags
- Economical single component design
- Optimized compact length
- Fast easy installation
- Accepts standard pole line fittings
- Latex coated with flared rod ends
- Uniform pressure design
- Superior fatigue strength wire design

Catalog* Number	Cable Diameter Range				Color Code	Overall Length	
	Min. (in)	Max. (in)	Min. (mm)	Max. (mm)		inches	meter
2875001	.375	.414	9.5	10.5	Red	28	.71
2875002	.415	.459	10.6	11.6	Orange	31	.79
2875003	.460	.505	11.7	12.8	Green	33	.84
2875004	.506	.557	12.9	14.1	Pink	37	.94
2875005	.558	.615	14.2	15.6	Yellow	42	1.07
2875006	.616	.680	15.7	17.3	Blue	45	1.14
2875007	.681	.750	17.4	19.1	Brown	49	1.24

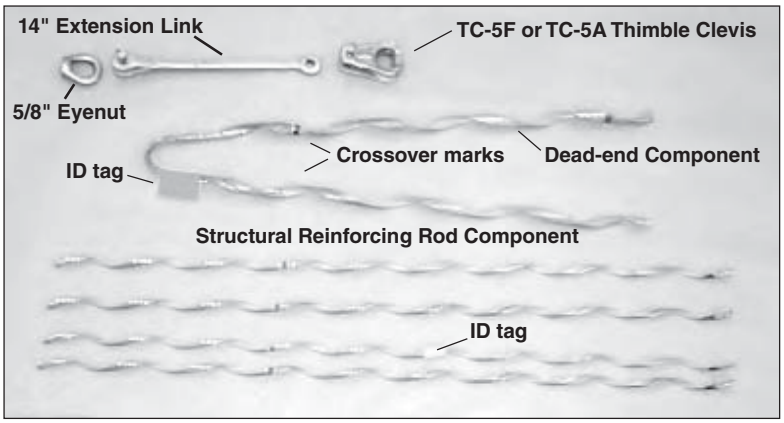
*Add suffix code TE to include Thimble Eye (Cat. No. TE-5) Number – Mount with 5/8" or 16 m bolt and nut.

FIBERLIGN® Dielectric Dead-end for ADSS



FIBERLIGN Dielectric Dead-end installed

NOMENCLATURE



GENERAL INFORMATION

The FIBERLIGN Dielectric Dead-end product line has been designed to securely but gently terminate All Dielectric Self-Supporting (ADSS) aerial fiber optic cable. A two component design consisting of appropriate size and length of Structural Reinforcing Rods and dead-end component is required to transfer axial tensile loads and distribute radial compressive forces through the plastic jacket and onto the internal strength members without damaging the fragile plastic jacket or internal optical fibers.

APPLICATION & PRODUCT SELECTION

Specific dead-end design and performance depends upon a number of factors such as cable brand and design, strength member construction, jacket type, tension load requirements, temperature and environmental operating conditions, and so on. Due to these factors, three types of dead-ends are offered:

- Limited Tension Dielectric Dead-ends
- Medium Tension Dielectric Dead-ends
- High Tension Dielectric Dead-ends

Limited Tension Dead-ends:

Intended for relatively low tension application usually associated with short span construction. They are not cable or line design specific but are designed to fit broad diameter ranges. Holding performance will vary by specific cable brand and operating conditions. Therefore, no specific holding strength rating is possible.

In general, Limited Tension Dead-ends are intended for use with these conditions and limitations:

- Low tensions, approximately:
  - 1,000# (4.4kN) maximum initial (stringing/nominal axial/long-term) tension
  - 2,500# (11.1 kN) maximum loaded (working/loaded axial/short-term) tension
- Short spans:
  - 300' - 600' (91-183 m) typical maximum spans depending upon cable OD and tensions
  - not recommended for critical crossing spans (highways, rivers, etc.); see Medium or High Tension Dead-ends
- Low strength cables
- “Standard” jackets
- Most cable brands
- No excessive operating conditions, cable motion or high temperatures

FIBERLIGN® Dielectric Dead-end for ADSS

APPLICATION & PRODUCT SELECTION (cont.)

Limited Tension Dead-end features:

- Standard design parameters
- Broad cable OD ranges, listed on ID tags
- Short Structural Reinforcing Rods
- Short dead-end component
- Structural Reinforcing Rods and Dead-end components packaged in same carton
- Fast, easy installation
- Utilizes economical TC-5F Thimble Clevis

Limited Tension Dead-ends				
Catalog Number*	Cable O.D. Range (inch)	Cable O.D. Range (mm)	Overall Length in. (m)	Color Code
2872001	.400-.424	10.1-10.7	48 (1.2)	Black
2872002	.425-.451	10.7-11.4	48 (1.2)	Yellow
2872003	.452-.481	11.4-12.2	48 (1.2)	Green
2872004	.482-.510	12.2-12.9	48 (1.2)	Orange
2872005	.511-.542	12.9-13.7	48 (1.2)	Blue
2872006	.543-.577	13.7-14.6	48 (1.2)	White
2872007	.578-.613	14.6-15.5	48 (1.2)	Red
2872008	.614-.651	15.5-16.5	48 (1.2)	Black
2872009	.652-.692	16.6-17.5	48 (1.2)	Yellow
2872010	.693-.737	17.5-18.7	48 (1.2)	Green
2872011	.738-.784	18.7-19.9	48 (1.2)	Orange
2872012	.785-.834	19.9-21.1	48 (1.2)	Blue
2872013	.835-.889	21.2-21.5	48 (1.2)	White
2872014	.890-.945	22.6-24.0	48 (1.2)	Red
2872015	.946-1.007	24.0-25.5	48 (1.2)	Black
2872016	1.008-1.073	25.6-27.2	60 (1.5)	Yellow
2872017	1.074-1.140	27.2-28.9	60 (1.5)	Green
2872018	1.141-1.212	28.9-30.7	60 (1.5)	Orange
2872019	1.213-1.288	30.8-32.5	60 (1.5)	Blue

*To include accessories in same carton, add suffix code(s) to Dead-end catalog number. Example: Cat. No. 2872001C1E1 includes Dead-end #2872001, TC-5F Thimble Clevis and Extension Link #71002366 in the same carton. See Dielectric Dead-end accessories in this section.

CAUTION: Some ADSS cables are not suitable for use with Limited Tension Dead-ends. Limited Tension Dead-ends are not recommended for track-resistant jacket applications. Consult PLP for specifics.

Medium Tension Dead-ends:

Designed for medium tension applications. Holding performance will vary by specific cable brand and operating conditions; therefore no, specific holding rating is possible.

In general, Medium Tension Dead-ends are intended for use with these conditions:

- Moderate tensions, approximately
  - 2,000# (8.9 kN) maximum initial (everyday/stringing) tension
  - 4,000# (17.8 kN) maximum loaded (short-term/working) tension maximum span length is dependent on cable O.D. and tensions
- For “standard” and most “track-resistant” jacket types of ADSS cables. (Contact PLP to verify acceptable track-resistant cable.)
- For severe operating temperatures and conditions
- Structural Reinforcing Rod length ranges from 85" to 105" (2.2 m — 2.7 m)

Medium Tension Dead-end features:

- Standard design parameters
- Broad cable OD ranges, listed on ID tags
- Moderate length
- Structural Reinforcing Rods and Dead-end components packaged in same carton
- Utilize TC-5F (or TC-6F) Thimble Clevis
- Accessories can be ordered with Dead-end components using suffix codes

Medium Tension Dead-ends				
Catalog Number	Cable O.D. Range (inch)	Cable O.D. Range (mm)	Overall Length in. (m)	Color Code
2872100	.482-.510	12.2–12.9	85 (2.2)	Orange
2872101	.511-.542	12.9–13.7	85 (2.2)	Blue
2872102	.543-.577	13.7–14.6	85 (2.2)	White
2872103	.578-.613	14.6–15.5	85 (2.2)	Red
2872104	.614-.651	15.5–16.5	85 (2.2)	Black
2872105	.652-.692	16.5–17.5	85 (2.2)	Yellow
2872106	.693-.737	17.6–18.7	85 (2.2)	Green
2872107	.738-.784	18.7–19.9	85 (2.2)	Orange
2872108	.785-.834	19.9–21.1	90 (2.3)	Blue
2872109	.835-.889	21.2–22.5	90 (2.3)	White
2872110	.890-.945	22.6.–24.0	95 (2.4)	Red
2872111	.946-1.007	24.0–25.5	95 (2.4)	Black
2872112	1.008-1.073	25.6–27.2	97 (2.5)	Purple
2872113	1.074-1.140	27.2–28.9	100 (2.5)	Pink
2872114	1.141-1.212	28.9–30.7	103 (2.6)	Brown
2872115	1.213-1.288	30.8–32.5	105 (2.7)	Orange

FIBERLIGN® Dielectric Dead-end for ADSS

High Tension Dead-ends:

Custom designed and manufactured for more stringent holding requirements and operating conditions than Limited and Medium Tension Dead-ends. Holding performance will vary depending upon the specific cable brand and operating conditions, therefore no general holding strength rating is possible. Consult PLP® for the proper dead-end application.

In general, High Tension Dead-ends are intended for use with these conditions:

- High tensions, approximately
  - over 2,000# (8.9 kN) initial (everyday/stringing) tension
  - over 4,000# (17.8 kN) loaded tension
- Long spans – varies according to cable OD and tensions
- High strength circular cables
- "Standard" and "track resistant" jackets
- All cable brands
- Selection and design considers excessive operating conditions, cable motion and high temperature environments

High Tension Dead-end features:

- Custom design parameters
- Designed for specific cable diameter and OD ranges, listed on ID tags
- Custom length Structural Reinforcing Rods and Dead-ends to match tension applications
- Structural Reinforcing Rods and Dead-end components packaged in same carton
- Utilizes either ATC-20M and TC-6F Thimble Clevis
- Accessories can be ordered with Dead-end components using suffix codes

Figure 8 Fiber Optic Cable:

For All-Dielectric messengers, the messenger with jacket intact is separated from the fiber bundle and a two piece Dielectric Dead-end is applied over the jacketed messenger. For metallic messengers, a conventional strand dead-end is applied directly to the bare messenger. Consult PLP for specifics for either style messenger.

Component Reuse:

Once installed, the structural reinforcing rods and formed dead-end components may be removed and reinstalled once for repositioning purposes; do not reuse after this initial installation. The hardware may be reused as desired if in good condition. Do not modify any component.

Ordering Instructions:

For Limited Tension and Medium Tension Dead-ends, use the appropriate table in this section if your installation meets the restrictions for this product. For all other dead-ends, contact PLP with cable specifications, line design details and advise of unusual operating conditions or high temperature environments so that proper dead-end designs can be selected.

To have accessories included with any Dead-end, add the appropriate suffix to the dead-end catalog number. Example: #2872001C1E1 includes Dead-end #2872001, Thimble Clevis TC-5F and Extension Link kit. See next page for available accessories.

FIBERLIGN® Dielectric Dead-end for ADSS

All Dielectric Dead-ends require a proper size and strength Thimble Clevis and may utilize an Extension Link.

To include accessories with dead-end, add suffix code(s) to Dead-end catalog number.

Thimble Clevis:

Limited and Medium Tension Dead-ends require the Catalog No. TC-5F Thimble Clevis (Rated Strength 26,900# (119 kN)) suffix Code "C1" or Cat No. TC-5A Thimble Clevis (Rated Strength 12,000# (53 kN)). The galvanized ductile iron #TC-5F is standard with a 2-1/4" minimum seat and 7/8" minimum groove diameter. The aluminum #TC-5A is optional with the same dimensional characteristics.

High Tension Dead-ends require at least the 20,000# (89 kN) ATC-20M Thimble Clevis (code C2) or equal with 3" minimum seat and 1-1/2" minimum groove diameters. For higher loads, use the 42,400# (188 kN) TC-6F (code C4) galvanized iron Thimble Clevis or equal with 2-1/2" minimum seat diameter and 1-1/16" minimum groove diameter.

Extension Link:

An optional 15,000# (67 kN) 14" (356 mm) Extension Link with 5/8" Eye Nut (Cat. #71002366, code E1) is suggested and sometimes recommended by cable suppliers to increase the cable bending radius and reduce stress to the optical fibers at Dead-end locations. This link kit can be used with any type FIBERLIGN Dielectric Dead-end.

For higher loads, use the 25,000# (111 kN), 14" (356 mm) Extension Link (Cat.# LCE-66-14 or P/N 00060132 or code E2).

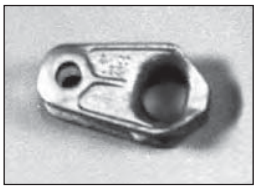
Loads up to 36,000 pounds can be handled with Cat. No. 000601325 (not shown).

Banding Bracket:

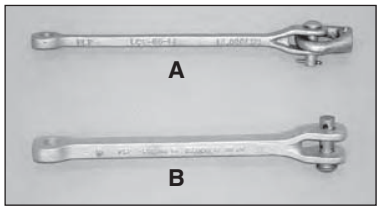
Dielectric Dead-ends can be banded to concrete or steel structures using the 12Klb Banding Bracket Kit (Cat. #710010745, code B1). The kit includes a 5/8" – 11x2" long bolt, lockwasher, hex nut and banding bracket. This connects to the Extension Link with 5/8" eye nut referenced above (Cat #71002366). The bracket is rated for 12,000# (53 kN) and should be used with two high strength 1-1/4" steel bands (not supplied).

TC-5F Thimble Clevis
(Code C1)

ATC-20M Thimble Clevis
(Code C2)

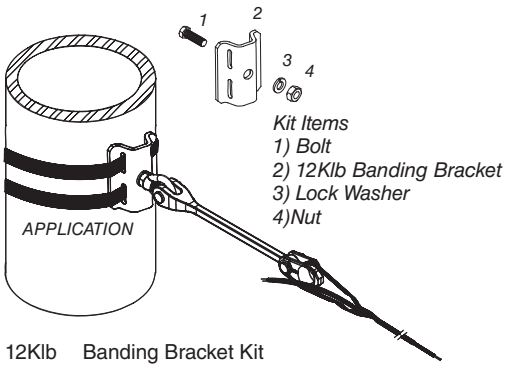


TC-6F Thimble Clevis
(Code C4)



(A) 14" Extension Link with Eye Nut, 15K
(Cat. No. 71002366, code E1)

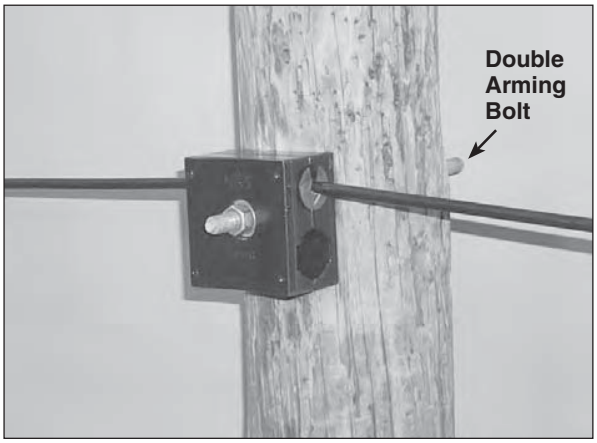
(B) 25K EXTENSION LINK
(Cat. No. LCE-66-14, code E2)



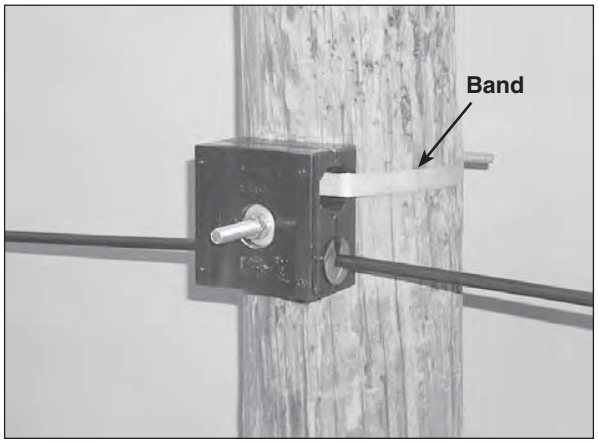
12Klb Banding Bracket Kit
(Cat. No. 710010745, code B1)

FIBERLIGN® Lite Support for ADSS

FIBERLIGN Lite Support—Bolt Mounted



FIBERLIGN Lite Support—Band Mounted



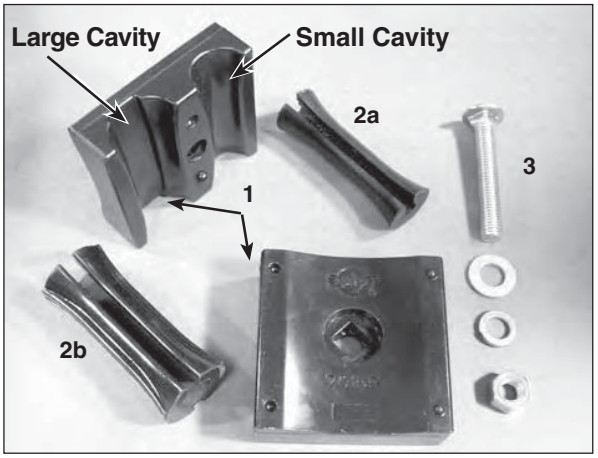
NOMENCLATURE

1. Housing Halves:
Urethane housings have molded cavities to accept cushion inserts. The small cavity accepts a small insert (Item 2a). The large cavity is designed for stringing in cable, capable of handling up to a 1-1/4" (32 mm) diameter mechanical swivel with pulling in grip. The large cavity will accept a large insert (Item 2b) for larger cables or if a dual cable application is desired.

2. Insert:
Softer material than the housing (item 1), one piece inserts are slotted to accept the cable as well as cushion the cable under load. The cable diameter range is molded along the hinge opposite the open slot for identification. The small cavity insert (Item 2a) will accept cable sizes up to .700" (17.8 mm) diameter. The large cavity insert (Item 2b) will accept cable sizes up to 1.03" (26 mm) diameter.

3. Hardware Kit (optional) for Banded Mount:
A 5/8"-11 UNC by 4" long carriage bolt, 5/8" round washer, Lock Washer, and 5/8"-11 UNC nut can be provided for banding applications. (Cat. No. 4800500)

FLS



FIBERLIGN® Lite Support for ADSS

APPLICATION

The FIBERLIGN Lite Support (FLS) system is designed to gently but firmly support All Dielectric Self-Supporting (ADSS) cable. It is intended for tangent support installations (see "LINE ANGLES") on lines that feature low voltages, very short spans and low mechanical loads. For products with higher capabilities see the subsequent pages under FIBERLIGN® Dielectric Support, FIBERLIGN Aluminum Support, FIBERLIGN Aluminum Suspension, with and without rods and FIBERLIGN Dielectric Suspension. The two latter products can be used in higher voltage environments where track resistant ADSS cables are required.

Dual Insert Application:

The FLS with small and large inserts can support two cables. Existing FIBERLIGN Dielectric Support (FDS) installations (up to 300' spans) can be replaced or "retrofitted" using the FLS. This option increases capability from one to two cables within minimal pole space.

FTTP:

Fiber to the Premises drop cables can have round, flat and figure 8 construction. Specially designed Lite Support inserts are available to accept all of these configurations. The catalog table includes these new sizes and detailed information can be found in Section 24.

Stacking:

LITE Support Housings are stackable to add more cables within the same pole space. This can offer a neat alternative to busy "J-Hook" clutter for FTTP drop cable distribution.

Maximum Span Lengths – 300 feet (91 m):

The maximum recommended span length for the FLS is dependent upon the specific cable OD, initial cable tension, ice and wind loading district (NESC), and other factors. It is intended for application on short spans where vertical loading does not exceed 1000# (4.4 kN) under the extreme case.
In general, the approximate recommended maximum span length for the FLS is 300 feet (91 m) under extreme loads (NESC Heavy). Consult PLP for specific span limitations.

Material:

The housing halves are made from a high-strength, dielectric urethane material. The cushioned inserts are made from a softer, pliable dielectric material that gently grips and cushions the ADSS cable within the clamped housing. The hardware (optional) for banded applications is zinc plated.

Mounting:

The housing halves are molded with smooth finish holes to accept a standard 5/8" thru-bolt.

Bolt Mount:

For wood pole or bolt mounting to any structure, a thru bolt can be fed through a hole in the structure leaving 4" to 5" (102-127 mm) of the bolt exposed to accept the FLS and allow for temporary housing separation during installation. At four (4) inches (102 mm), the nut and washers can be left on the end of the bolt while manipulating the housing halves to remove the cable after stringing or accept the insert during final installation.

Band Mount:

For concrete pole or band mounting to any structure, the housing halves have a molded groove that accepts 3/4" wide high-strength banding material. PLP provides the hardware kit (item 3 of the nomenclature) that is used to clamp the housing halves together after the unit is banded to the structure. The housings have a special recessed hole that keeps the carriage bolt from turning during assembly. To include the mounting hardware with the product add the suffix code H2 to the standard FLS catalog number. Banding material is not provided – Consult PLP for further information.

Line Angles:

For most applications, the maximum line angle recommended is 20°; consult PLP for exceptions.

Slip Loads:

The hourglass shape of the insert creates wedge-action holding on the cable when unbalanced loads exist. The wedge works in either direction. Holding capability is enhanced with a special knurled finish on the inserts inner diameter surface. Specific performance will depend upon the specific cable OD and design.

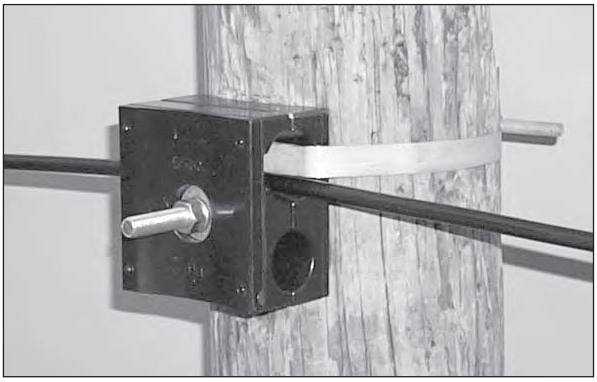
STRINGING OPERATIONS

The dielectric material of the body provides a highly abrasive-resistant surface that allows the FLS housing assembly to be used as a stringing traveler at the structure. The smooth surfaces of the housing are designed with gentle contours and large radii that allow up to 10° line angles (20° in certain cases – consult PLP). This ability saves installation time and costs by eliminating the use of conventional stringing travelers.

For stringing operations the large molded cavity will accept up to 1-1/4" diameter for pulling in hardware. If you are using cable greater than .699" (18 mm) diameter, you may have a large insert designed for the large molded cavity. If so, remove the large insert from its cavity and temporarily tighten the FLS housing halves against the pole. The small cavity insert can remain in the small cavity of the FLS during stringing.

FIBERLIGN® Lite Support for ADSS

FIBERLIGN Lite Support – Stringing



ORDERING INSTRUCTIONS

Refer to the catalog table and select the proper FLS for the cable's outside diameter. To include the carriage bolt hardware kit for Cat. no. 4800500 band mount, add suffix code H2 (banding material not included). EX: #4800110H2 will include hardware.

Large Cavity Inserts for Lower Cable Ranges

Cable Diameter Range				Large Insert Number
Min. (in)	Max. (in)	Min. (mm)	Max. (mm)	
0.25	0.28	6.3	7	00070255
0.305	0.375	7.8	9.5	00070256
0.4	0.429	10.2	10.8	00070250
0.43	0.459	10.9	11.6	00070251
0.46	0.489	11.7	12.4	00070176
0.49	0.519	12.5	13.1	00070177
0.52	0.549	13.2	13.9	00070178
0.55	0.579	14	14.7	00070179
0.58	0.609	14.8	15.4	00070180
0.61	0.639	15.5	16.2	00070181
0.64	0.669	16.3	16.9	00070182
0.67	0.699	17	17.8	00070183

For Housing Only – Order #4800000
Large Cavity insert sizes for Lower Ranges are shown in the table for cable diameters from .250" to .699".

FIBERLIGN LITE SUPPORT – Single Insert Assemblies

Catalog Number	Cable Diameter Range				Insert Component	
	Min. (in)	Max. (in)	Min. (mm)	Max. (mm)	Part Number	Sized For
4800107	.250	.280	6.3	7.0	00070257	SMALL CAVITY
4800109	.305	.375	7.8	9.5	00070258	
4800110	.400	.429	10.2	10.8	00070216	
4800111	.430	.459	10.9	11.6	00070217	
4800112	.460	.489	11.7	12.4	00070218	
4800113	.490	.519	12.5	13.1	00070219	
4800114	.520	.549	13.2	13.9	00070220	
4800115	.550	.579	14.0	14.7	00070221	
4800116	.580	.609	14.8	15.4	00070222	
4800117	.610	.639	15.5	16.2	00070223	
4800118	.640	.669	16.3	16.9	00070224	
4800119	.670	.699	17.0	17.8	00070225	
4800120	.700	.723	17.9	18.3	00070184	LARGE CAVITY
4800122	.724	.779	18.4	19.7	00070186	
4800124	.780	.834	19.8	21.1	00070188	
4800126	.835	.889	21.2	22.5	00070190	
4800128	.890	.944	22.6	23.9	00070192	
4800130	.945	.999	24.0	25.4	00070194	
4800132	1.000	1.054	25.5	26.8	00070195	

For Housing Only – Order #4800000
*DUAL INSERT APPLICATION: Catalog Numbers are available for Small & Large Insert Combinations – Contact PLP
The maximum cable accepted in the small cavity is .699".

FIBERLIGN® Dielectric Support for ADSS

APPLICATION

The FIBERLIGN Dielectric Support (FDS) system is designed to gently, but firmly, support All-Dielectric Self-Supporting (ADSS) cable. It is intended for tangent support installations (see "LINE ANGLES") on lines that feature relatively low voltages, short spans and modest mechanical loads. For higher voltages (where "track resistant" ADSS cables are required), longer spans and/or higher loads, use either the FIBERLIGN Aluminum Suspension with Rods or the FIBERLIGN Dielectric Suspension — both products appear later in this section.

Maximum Span Lengths:

The maximum recommended span length for the FDS is dependent upon the specific cable OD, initial cable tension, ice and wind loading district (NESC), and other factors. It is intended for application on relatively short spans where vertical cable loading does not exceed approximately 1,000# (worst case). In general, the approximate recommended maximum span lengths for the FDS are:

- 600' for < 1.00" OD cable (NESC – heavy).
- 300' for ≥ 1.00" OD cable (NESC – heavy).

When in doubt, consult PLP for specific span limitations.

Material:

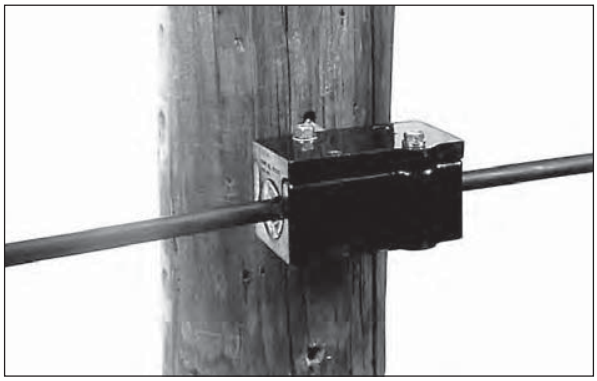
The body and top are made from a high-strength, engineered dielectric material. The cushioned inserts are made from a soft, pliable dielectric material that gently grips the ADSS cable. Two captured zinc plated bolts with washers secure the top to the body.

Mounting:

The body threads onto standard 5/8" 11-UNC hot dipped galvanized thru-bolt and may be mounted either horizontally or vertically. For horizontal mounting to a wood pole (or other structures with thru-holes) a double arming bolt (completely threaded–no head) is suggested instead of a fixed length machine bolt. This allows approximately 1-5/8" of bolt length to thread into the body regardless of pole diameter.

For mounting to concrete or steel structures without thru-holes, use a 5/8" threaded stud of appropriate length or banding system with a mounting bracket. See accessories in this section for details about the Limited Tension Banding Bracket.

FIBERLIGN Dielectric Support installed



Line Angles:

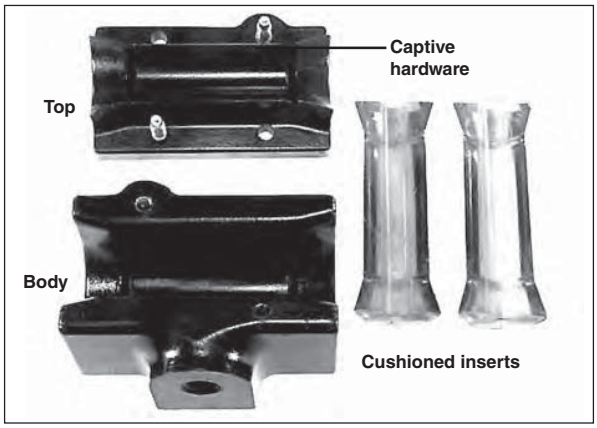
For most applications, the maximum line angle recommended is 20°; consult PLP® for exceptions that allow 30° angles. When angles exceed 20° (or 30°) a double dead-end arrangement is usually preferred. A special double FDS unit can be designed for certain applications; consult PLP for details.

Slip Loads:

The cushioned inserts are designed to gently grip the cable while providing significant slip strength without causing cable jacket damage. Specific performance will depend upon the specific cable O.D. and design.

NOMENCLATURE

FDS



Patented

FIBERLIGN® Dielectric Support for ADSS

Stringing Operations:

The dielectric material of the body provides a highly abrasive-resistant surface that allows the FDS body to be used as a stringing traveler at the structure on up to 10° line angles (20° in certain cases–consult PLP®). This ability saves installation time and costs by eliminating the use of conventional stringing travelers.

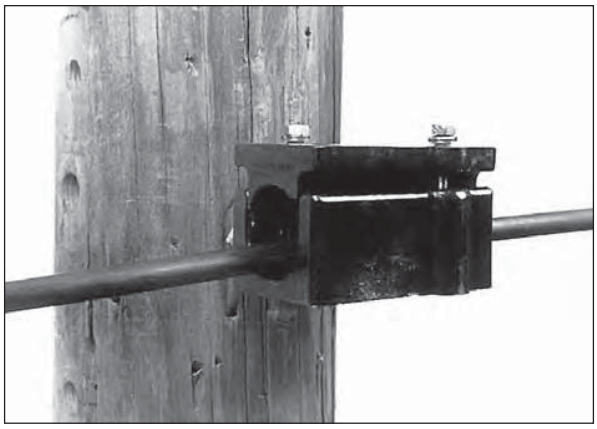
For stringing operations, thread the FDS onto the appropriate bolt, remove the inserts and elevate the top as far away from the bottom as the bolts will allow, to provide as large an opening as possible. Then thread pulling-in cable through the opening.

Component Reuse:

All components of FDS may be reused as desired if in good condition. Do not modify any component.

Ordering Instructions:

For concentric ADSS cable, refer to the catalog table and select the proper FDS for the cable's outside diameter. For non-concentric profiles, such as Figure 8 or other cable sizes and profiles, consult PLP for custom designs. To include accessories with the FIBERLIGN Dielectric Support, add code number to catalog number (example: 44002144B1).



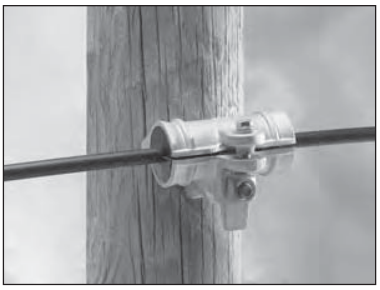
ACCESSORIES

The FIBERLIGN Dielectric Support may be banded to concrete or steel structures using the appropriate Limited Tension Banding Bracket Kit (Cat. #710010577, code B1). The kit includes a 5/8"-11 x 2-1/2" long bolt, lockwasher, hex nut and banding bracket. The bracket is rated for 1,200# vertical load and should be used with a high strength 1-1/4" steel band (band purchased separately).

FIBERLIGN® Dielectric Support for ADSS					
Catalog Number		ADSS Cable Range			
Complete Assembly	Inserts Only (2 Required)	Min. (in)	Max. (in)	Min. (mm)	Max. (mm)
44002144	00070061	0.275	0.325	7.0	8.3
44000691	00070052	0.326	0.375	8.4	9.5
44009998	00070056	0.376	0.425	9.6	10.8
44009949	00070059	0.426	0.475	10.9	12.1
44009952	00070107	0.476	0.525	12.2	13.3
44009823	00070088	0.526	0.575	13.4	14.6
44009798	00070108	0.576	0.625	14.7	15.9
44009776	00070109	0.626	0.675	16.0	17.1
44009799	00070110	0.676	0.750	17.2	19.1
44009878	00070111	0.751	0.825	19.2	21.0
44009963	00070112	0.826	0.900	21.1	22.9
44002213	00070113	0.901	0.950	23.0	24.1
44003915	00070147	0.951	1.000	24.2	25.4
440010296	00070154	1.0001	1.050	25.5	26.6

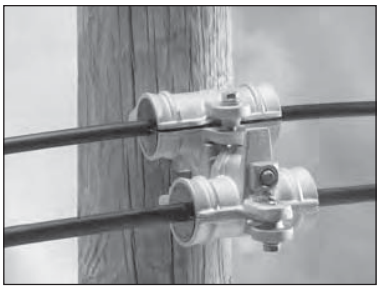
Quantity 2 Inserts Required per Support
For Housing Only – Order #440000000

FIBERLIGN® Aluminum Support for ADSS

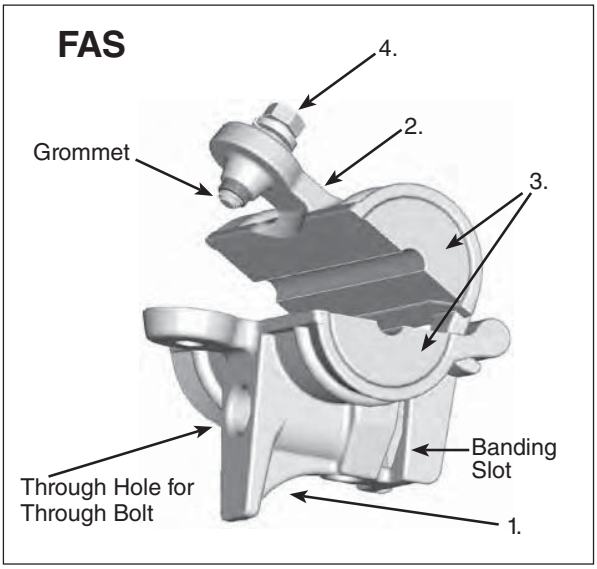


Through-Bolt Mounted

Band Mounted



Multi-Cable Stacking



PATENT PENDING

NOMENCLATURE

1. Base
2. Keeper
3. Cushion Inserts
4. Captured Bolt, Lock Washer & Flat Washer (Captured with grommet)

Base and Keeper:

The aluminum alloy base and keeper have an **interlocking hinge** allowing easy access for pulling-in rope and ADSS cable. Closing the keeper captures the cable during stringing and subsequently secures the cable and cushion inserts for permanent installation. The base is designed to accept a 1-1/4" wide x .040" thick (32 mm x 1 mm) band or a 5/8" through bolt (M16) for mounting to the structure. **In multi-cable installations,** modular base surfaces at the mounting bolt and band entry areas provide stable engagement and stacking.

Captured Bolt and Bevel Washer:

Galvanized steel bolt, lock washer and washer captured with an elastomer grommet.

Cushion Inserts:

A soft pliable dielectric material that gently grips the ADSS cable. FAS is the acronym for FIBERLIGN Aluminum Support.

APPLICATION

The FIBERLIGN Aluminum Support (FAS) is designed to gently, but firmly support All-Dielectric Self-Supporting (ADSS) cable. The FAS features the following: Integrated bolt or band mount design, Hinged keeper and base, Single-bolt clamping, and Stackability for multi-cable installations. For higher voltages (where track resistant ADSS cables are required), longer spans and/or higher loads, use either the FIBERLIGN Aluminum Suspension w/rods or the FIBERLIGN Dielectric Suspension – both products appear later in this section.

Maximum Span Lengths:

The FAS was designed for short span applications where vertical loading does not exceed 1000# (4.4 kN). The maximum vertical load typically factors-in span length, cable OD, initial cable tension, ice and wind loading district (NESC), multi-cable stacking, etc. As a general idea, the following recommendations are approximate maximum span lengths for the FDS under NESC Heavy conditions:

- 600' (183 m) for < 1.00" (25 mm) OD cable (NESC Heavy)
- 300' (91 m) for > 1.00" (25 mm) OD cable (NESC Heavy)

Mounting:

The FAS can be bolted or banded to a structure. For mounting to wood poles (or other structures with through holes) a 5/8"-11 (M16) through-bolt or double-arming bolt may be used to capture the FAS against the structure. The width of the FAS accounts for about 3.2" (81 mm) of bolt length.

FIBERLIGN® Aluminum Support for ADSS

For mounting to concrete or steel structures without through holes, the FAS may be banded via the band slot cast in the base of the FAS. The band slot is designed to accept a 1-1/4" wide x 0.040" thick (32 mm x 1 mm) high strength band. Banding materials with 45,000 psi (310 MPa) yield strength and 95,000 psi (655 MPa) ultimate strength are recommended to achieve rated vertical load.

Line Angles:

For most applications, the maximum line angle recommended is 20° – consult PLP® for exceptions that allow 30° angles. When angles exceed 20° (or 30°) the FIBERLIGN Aluminum Suspension (found later in this section) as a single or double attachment may be considered as an alternative.

Longitudinal Holding Capability:

The cushioned inserts are designed to gently grip the cable – providing modest longitudinal holding strength without causing cable damage. Specific performance will depend upon the cable brand, internal construction, and outer diameter.

Stringing Operations:

The cable cavity of the FAS is contoured and smooth to allow the product to be used as a stringing traveler during stringing and sagging operations. The line angles during stringing may go up to 10° (20° in certain cases – consult PLP).

For stringing, the inserts are removed and the keeper should be fully closed with the bolt fully engaged.

STRINGING

Torque Level:

The keeper is fastened to the base with the 3/8"– 16 captured bolt and should be tightened until the lock washer is flat for proper torque level. This will require 10 foot pounds (120 inch-pounds or 13.5 Newton-meters) of force. DO NOT OVER-TORQUE.

Stacking – Multi Cable Installation:

Multi-cable installations with the FAS save pole space as the first unit mounts against the pole and added units extend horizontally – captured with a common 5/8" (M16) bolt. The length of the bolt must accommodate the stacked FAS units – each width approximately 3.2" (81 mm). For installations of more than two cables, a brace should be used to help support the cantilever load on the through-bolt or band.

The FAS units stack in such a way that keep adjacent cables in staggered formation, thus reducing the possibility of cable collision due to wind induced cable sway.

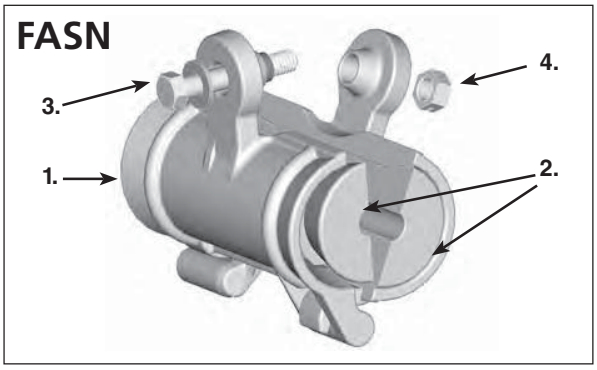
ORDERING INSTRUCTIONS

Refer to the catalog table and select the appropriate FAS for the ADSS cable's outside diameter.

FIBERLIGN® Aluminum Support					
Catalog Number		ADSS Cable Range			
Complete Assembly	Inserts Only (2 Required)	Min. (in)	Max. (in)	Min. (mm)	Max. (mm)
4450095	00070241	0.226	0.275	5.7	6.9
4450096	00070236	0.276	0.325	7	8.2
4450097	00070237	0.326	0.375	8.3	9.4
4450098	00070238	0.376	0.425	9.5	10.7
4450099	00070239	0.426	0.475	10.8	12
4450100	00070125	0.476	0.525	12.1	13.3
4450101	00070126	0.526	0.575	13.4	14.6
4450102	00070127	0.576	0.625	14.7	15.9
4450103	00070128	0.626	0.675	16	17.1
4450104	00070129	0.676	0.75	17.2	19.1
4450105	00070130	0.751	0.825	19.2	21
4450106	00070131	0.826	0.9	21.1	22.9
4450107	00070132	0.901	0.975	23	24.8
4450108	00070133	0.976	1.05	24.9	26.7
4450109	00070134	1.051	1.25	26.8	28.6
4450110	00070135	1.126	1.2	28.7	30.5
4450111	00070136	1.201	1.275	30.6	32.4
4450112	00070137	1.276	1.35	32.5	34.3
4450113	00070138	1.351	1.425	34.4	36.2

Quantity 2 Inserts Required per Support
For Housing Only - Order #4450000

FIBERLIGN® Aluminum Suspension for ADSS



NOMENCLATURE

1. Keeper
2. Cushion Inserts (With or Without Grit)
3. Captured Bolt and Washer (Captured with Grommet)
4. Lock Nut
5. Anchor Shackle with Eye-nut (Optional not shown)
6. Structural Reinforcing Rods (optional, not shown)

Keeper:

The aluminum alloy keepers have an interlocking hinge for simple access and cable installation. Closing the keeper captures and secures the cushion inserts and ADSS cable. The keepers join together to form a clevis for attachment to the structure via Cat. No. AS-5L anchor shackle fitting or equivalent.

Cushion Inserts:
A soft pliable dielectric material that gently grips the ADSS cable – supplied either with or without grit on the inner diameter bore. Gritted inserts are applied over optional Structural Reinforcing Rods for medium span applications. The gritted inserts have a conductive aluminum strip located near the center for higher voltage environments.

Captured Bolt, Washer, and Lock Nut:
Galvanized steel bolt and washer captured with an elastomer o-ring. The galvanized steel Lock Nut has a stiff wire locking mechanism designed to engage with the thread of the mating bolt.

Structural Reinforcing Rods (SRR)
are preformed galvanized steel rods – subsetted and gritted. They are intended to provide additional protection to the cable jacket and increase longitudinal holding abilities of the unit.

FASN is the acronym for FIBERLIGN ALUMINUM SUSPENSION.

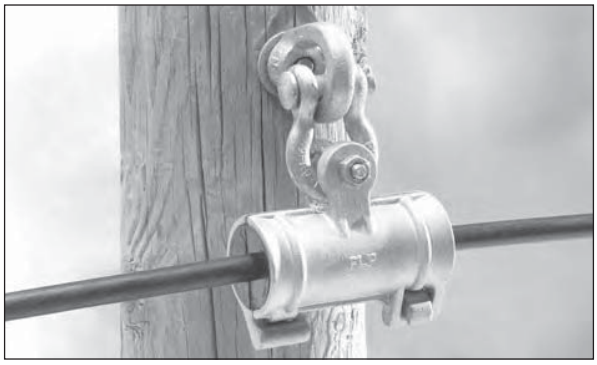
APPLICATION

The FIBERLIGN Aluminum Suspension (FASN) is designed to gently, but firmly support All-Dielectric Self-Supporting (ADSS) cable. The FASN features the following: Interlocking Hinge, Single-bolt clamping, Short to Medium Span Option, Low to High Voltage Environment acceptance. The addition of SRR allows the versatile FASN to go from a distribution environment to a transmission environment. Fittings and brackets are available for wood pole and concrete or metal structure applications.

Span Length Capability

1. For short spans without SRR:
   <600' (183 m) maximum recommended span lengths.
2. For Intermediate spans with SRR:
   <1200' (366 m) maximum recommended span lengths.

For additional cable jacket protection, longer spans and higher longitudinal holdling requirements, the dual rod layer FIBERLIGN Dielectric Suspension (found later in this section) is recommended.



Anchor Shackle w/Eye Nut Option

FASN with Rods

Vertical Load Limit

The FASN has an ultimate vertical load capability of 7000 (31 kN) pounds.

Longitudinal Cable Holding Capabilities

Without SRR, modest longitudinal holding capabilities are provided via compresson of the non-gritted inserts on the cable. Specific values are dependent upon cable brand, internal construction and diameter. Consult PLP for specifics. With SRR, substantial longitudinal holding capabilities are provided via insert compression and are enhanced by the grit on both the inserts and SRR. Contact PLP for specifics.

Rod End Treatment

In order to avoid scratching, gouging or nicking of the plastic jacket during installation, unbalanced loading, or cable motion, the ends of eh SRR's are factory formed to flare away from the cable surface.

FIBERLIGN® Aluminum Suspension for ADSS

Grounding and Corona Protection:

If positive grounding of the cable and metalic components of the FASN is desired, a grounding wire can be attached to the 3/8" captured bolt. PLP can supply a 4' (1.2m) long #4 copper or 4/0 aluminum grounding wire assembly (Cat. No. 710010016 or 710010294 respectively).

For the FASN, the SRRs have been designed to accept the ADSS-CORONA™ Coil. The ADSS CORONA Coil reduces electrical stress at the ends of the metal rods. Further catalog information about this product can be found later in this section.

Mounting

- Bolted (Wood Poles): Adding suffix code “S” provides an anchor shackle with 5/8"-11 eye nut accessory (Cat. No. 710010357) for attachment to double arm bolts. The anchor shackle (Cat. No. AS-5L) may be purchased separately to attach to eyebolts.
- Banded (Steel, Concrete Poles): Banding Bracket (Cat. No. 710010577) is offered for low tension/short span support application only. The kit includes a 5/8"-11x 2-1/2" long bolt, lockwasher, hex nut and banding bracket. The bracket is rated for 1,200# (5.3 kN) vertical load and should be used with a high strength 1-1/4" (32 mm) steel band (band purchased separately).

Line Angles

The FASN maximum recommended line angle for a single suspension unit is 30° depending on cable brand. Two units can be combined to turn larger angles up to 60°, although double dead-ending is another option for large angles. Contact PLP for details.

Torque Level

The 3/8" captured bolt should be tightened UNTIL THE LOCK WASHER IS FLAT and the clevis halves are joined flush. This will require about 10 foot-pounds (120 inch-pounds or 13.5 Newton-meters) of force. DO NOT OVER-TORQUE.

FASN Kit with Structural Reinforcing Rods

Catalog Number*	Min. (mm)	ADSS Cable Range			Color Code
		Max. (mm)	Rod Length (mm)	Rod Dia. (mm)	
4470199	0.426” (10.8)	0.475” (12.0)	30” (762)	.100" (2.5)	Green
4470200	0.476” (12.1)	0.500” (12.7)	33” (838)	.100" (2.5)	Red
4470201	0.501” (12.8)	0.550” (14.0)	34” (864)	.100" (2.5)	Blue
4470202	0.551” (14.1)	0.625” (15.9)	34” (864)	.100" (2.5)	Black
4470203	0.626” (16.0)	0.700” (17.8)	35” (889)	.100" (2.5)	Orange
4470204	0.701” (17.9)	0.737” (18.7)	36” (914)	.119" (3)	Green
4470205	0.738” (18.9)	0.812” (20.6)	36” (914)	.119" (3)	Pink
4470206	0.813” (20.7)	0.887” (22.5)	37” (940)	.119" (3)	Purple
4470207	0.888” (22.6)	0.962” (24.4)	37” (940)	.119" (3)	White
4470208	0.963” (24.5)	1.037” (26.3)	37” (940)	.119" (3)	Yellow
4470209	1.038” (26.4)	1.112” (28.2)	38” (965)	.119" (3)	Brown
4470210	1.113 (28.3)	1.187” (30.1)	39” (991)	.119” (3)	Red

*Add Suffix “S” to Catalog No. to include one #AS-5L Anchor Shackle

FIBERLIGN® Aluminum Suspension Without Structural Reinforcing Rods

Catalog Number		ADSS Cable Range			
Complete Assembly	Inserts Only (2 Required)	Min. (in)	Max. (in)	Min. (mm)	Max. (mm)
4450195	00070241	0.226	0.275	5.7	6.9
4450196	00070236	0.276	0.325	7	8.2
4450197	00070237	0.326	0.375	8.3	9.4
4450198	00070238	0.376	0.425	9.5	10.7
4450199	00070239	0.426	0.475	10.8	12
4450200	00070125	0.476	0.525	12.1	13.3
4450201	00070126	0.526	0.575	13.4	14.6
4450202	00070127	0.576	0.625	14.7	15.9
4450203	00070128	0.626	0.675	16	17.1
4450204	00070129	0.676	0.75	17.2	19.1
4450205	00070130	0.751	0.825	19.2	21
4450206	00070131	0.826	0.9	21.1	22.9
4450207	00070132	0.901	0.975	23	24.8
4450208	00070133	0.976	1.05	24.9	26.7
4450209	00070134	1.051	1.25	26.8	28.6
4450210	00070135	1.126	1.2	28.7	30.5
4450211	00070136	1.201	1.275	30.6	32.4
4450212	00070137	1.276	1.35	32.5	34.3
4450213	00070138	1.351	1.425	34.4	36.2

Quantity 2 Inserts Required per Suspension
For Housing Only - Order #4450001
*Add Suffix “S” to Catalog No. to include one #AS-5L Anchor Shackle and 5/8" Eye-Nut

ORDERING INSTRUCTIONS

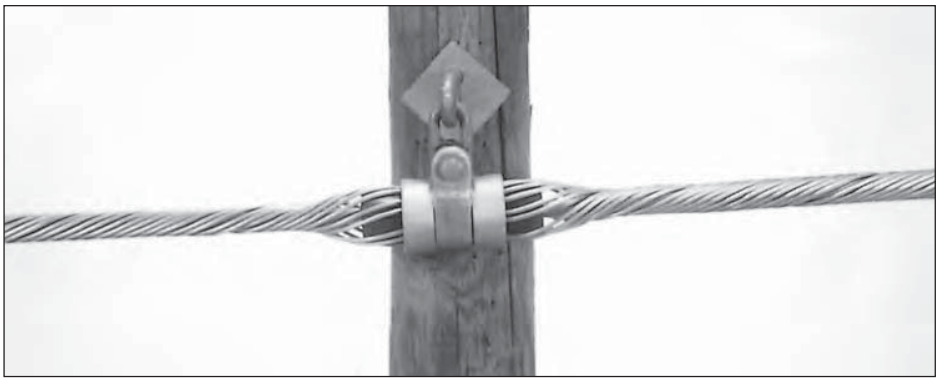
Refer to the catalog tables (with or without rods) and select the appropriate FASN for the ADSS cables outside diameter.

Add suffix code “S” to include anchor shackle with 5/8" eye-nut (Cat. No. 710010357) option.

Order Cat. No. 710010577 to receive the Limited Tension Banding Bracket – see “Mounting” paragraph earlier in this section for details.

Order Cat. No. 710010016 to receive a 4' (1.3 m) long #4 (7W) copper with terminal on one end. Order Catalog No. 710010294 to receive a 4' (1.2 m) long 4/0 (7W) aluminum conductor with terminal on one end.

FIBERLIGN® Dielectric Suspension for ADSS



FIBERLIGN Dielectric Suspension for All-Dielectric Self-Supporting (ADSS) Cable

APPLICATION

The FIBERLIGN® Dielectric Suspension is specifically designed for installation on ADSS cables and is different than FIBERLIGN® Suspension for OPGW. Due to the relatively fragile nature of the plastic jackets and nonmetallic strength members of ADSS, special care and features are incorporated into the design of the FIBERLIGN Dielectric Suspension.

The unit does use a combination of Structural Reinforcing Rods, Outer Rods, boltless housing and resilient cable inserts to reduce compression clamping and bending stresses on the cable and glass fibers. Negative effects of wind induced cable motions such as aeolian vibration, galloping and wind sway are also minimized.

The double layer of rods also offers critical protection against tearing of the plastic jacket during unbalanced longitudinal loading of the cable while providing substantial holding strength. This holding strength can vary according to cable brand, jacket type, operating temperatures and other factors.

For further details about the product and its components, refer to FIBERLIGN Suspension for OPGW earlier in this section.

Rod End Treatment

In order to avoid scratching, gouging or nicking of the plastic jacket during installation, unbalanced loading, or cable motion, the Structural Reinforcing Rods are slightly flared away from the cable surface. Unflared rod ends can cause damage to the jacket which should be avoided.

Product Selection

As a general guideline, the FIBERLIGN Dielectric Suspension for ADSS is intended for long spans where suspension is desired regardless of span, where very high unbalanced longitudinal holding strengths are desired, or where very high vertical loads are expected.

PLP offers two other products for lighter load/shorter span applications in suspension and support modes. Refer to the FIBERLIGN Dielectric Support (FDS), FIBERLIGN Aluminum Support (FAS) and FIBERLIGN Aluminum Suspension (FASN) products that appear earlier in this section.

ULTIMATE VERTICAL STRENGTH & HOUSING & FITTING DIMENSIONS: Refer to dimensional tables in the FIBERLIGN Suspension for OPGW section of this catalog.

Line Angles

The maximum recommended line angle for a single suspension unit is 40°. A custom designed FIBERLIGN Dielectric Suspension Double for angles up to 80° is available. Double dead-ending for angles over 40° is another option.

Fittings

Fittings such as a Y-Clevis, Clevis Eye, Chain Link or Anchor Shackle may be required to attach the Suspension unit to the structure or other hardware. These fittings must match the dimensions of the suspension housing; refer to the dimensional tables and fittings pages in the FIBERLIGN Suspension for OPGW section of this catalog.

Component Reuse

Once installed, do not reuse the rod components. The hardware components may be reused as long as they are in good condition. Do not modify any components.

FIBERLIGN® Dielectric Suspension for ADSS

ORDERING INSTRUCTIONS

Select the appropriate FIBERLIGN Dielectric Suspension for ADSS by cable diameter from the table below. For FIBERLIGN Suspension for OPGW, refer to page 5-12 of this catalog. For trunnion or bracket-type mounting for ADSS or OPGW, consult PLP®.

Catalog Number	Diameter Range				Structural Reinforcement Rods						Outer Rods					
	Min.-Max. (in)		Min.-Max. (mm)		Length		Rod Diameter		Rods per set	Color Code	Length		Rod Diameter		Rods per set	Color Code
					(in)	(meters)	(in)	(mm)			(in)	(meters)	(in)	(mm)		
430010267	.354	.381	8.9	9.6	80	2.03	.146	3.7	9	Blue	42	1.07	.204	5.2	11	Blue
43003195	.399	.418	10.1	10.6	80	2.03	.146	3.7	10	Yellow	42	1.07	.204	5.2	11	Yellow
43001929	.419	.439	10.7	11.1	80	2.03	.146	3.7	10	Black	42	1.07	.204	5.2	11	Black
43009490	.440	.458	11.2	11.6	81	2.06	.146	3.7	11	White	43	1.09	.204	6.4	11	White
43003233	.459	.461	11.7	11.7	84	2.13	.167	4.2	10	Purple	46	1.17	.250	6.4	10	Orange
43003234	.462	.476	11.8	12.0	84	2.13	.167	4.2	10	Purple	46	1.17	.250	6.4	10	Purple
43004061	.477	.503	12.1	12.7	84	2.13	.146	3.7	12	Orange	46	1.17	.250	6.4	10	Orange
43004164	.504	.511	12.8	12.9	84	2.13	.146	3.7	12	Red	46	1.17	.250	6.4	10	Purple
43009922	.512	.536	13.0	13.6	87	2.21	.167	4.2	11	Blue	49	1.24	.250	6.4	11	Blue
43002246	.537	.559	13.7	14.1	87	2.21	.167	4.2	11	Green	49	1.24	.250	6.4	11	Green
43004100	.560	.565	14.2	14.3	87	2.21	.167	4.2	11	Green	49	1.24	.250	6.4	11	Green
43003235	.566	.573	14.4	14.5	92	2.34	.182	4.6	11	Black	54	1.37	.250	6.4	12	Black
43009945	.574	.598	14.6	15.1	92	2.34	.182	4.6	11	Black	54	1.37	.250	6.4	12	White
43009965	.599	.625	15.2	15.8	92	2.34	.182	4.6	12	Brown	54	1.37	.250	6.4	12	Brown
43003239	.626	.632	15.9	16.0	102	2.59	.204	5.2	11	Red	63	1.6	.310	7.9	11	Red
43009760	.633	.666	16.1	16.9	102	2.59	.204	5.2	11	Red	63	1.6	.310	7.9	11	Blue
43004965	.667	.682	17.0	17.3	102	2.59	.204	5.2	12	Yellow	63	1.6	.310	7.9	11	Green
43009947	.683	.710	17.4	18.0	102	2.59	.204	5.2	12	Yellow	63	1.6	.310	7.9	11	Yellow
43004991	.711	.728	18.1	18.4	102	2.59	.204	5.2	12	White	63	1.6	.310	7.9	12	Black
43009868	.729	.744	18.5	18.8	102	2.59	.204	5.2	12	White	63	1.6	.310	7.9	12	White
43006274	.745	.750	18.9	18.9	102	2.59	.204	5.2	12	White	63	1.6	.310	7.9	12	White
43009842	.751	.786	19.0	19.9	102	2.59	.204	5.2	13	White	63	1.6	.310	7.9	12	Brown
43003240	.787	.814	20.0	20.6	111	2.82	.250	6.4	11	Green	72	1.83	.365	9.3	11	Green
43003058	.815	.845	20.7	21.4	111	2.82	.250	6.4	12	Yellow	72	1.83	.365	9.3	11	Yellow
43003028	.846	.855	21.5	21.6	111	2.82	.250	6.4	12	Green	72	1.83	.365	9.3	12	Blue
43003230	.856	.894	21.7	22.6	119	3.02	.250	6.4	12	Black	80	2.03	.365	9.3	12	Black
43003079	.895	.907	22.7	22.9	119	3.02	.250	6.4	12	White	80	2.03	.365	9.3	12	White
43003241	.908	.916	23.0	23.2	119	3.02	.250	6.4	13	Purple	80	2.03	.365	9.3	12	Purple
43003242	.917	.929	23.3	23.5	119	3.02	.250	6.4	13	Brown	80	2.03	.365	9.3	12	Brown
43003243	.930	.942	23.6	23.9	119	3.02	.250	6.4	13	Red	80	2.03	.365	9.3	12	Red
43003244	.943	.977	24.0	24.7	119	3.02	.250	6.4	13	Orange	80	2.03	.365	9.3	13	Orange
430010305	.978	1.016	24.8	25.7	118	3.00	.250	6.4	13	Purple	80	2.03	.365	9.3	12	Purple
430010306	1.017	1.057	25.8	26.8	118	3.00	.250	6.4	14	Red	80	2.03	.365	9.3	12	Red
430010307	1.058	1.079	26.9	27.3	133	3.38	.250	6.4	14	Blue	95	2.41	.365	9.3	13	Blue
430010308	1.080	1.112	27.4	28.1	133	3.38	.250	6.4	14	Green	95	2.41	.365	9.3	13	Green
430010309	1.113	1.149	28.2	29.1	133	3.38	.250	6.4	15	Yellow	95	2.41	.365	9.3	13	Yellow
43003778	1.150	1.190	29.2	30.1	131	3.33	.250	6.4	15	Red	92	2.34	.365	9.3	15	Red

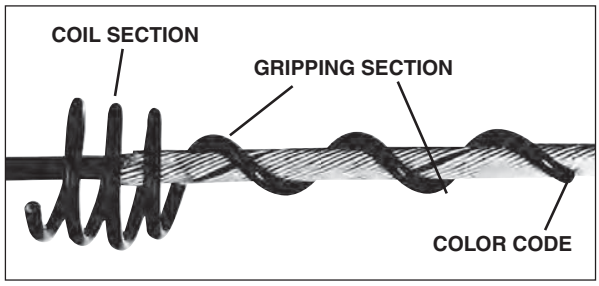
PREFORMED LINE PRODUCTS

Section 7 – FIBERLIGN® Hardware Accessories for OPGW and/or ADSS

Table of Contents Page

ADSS-CORONA™ Coil

NOMENCLATURE



GENERAL INFORMATION

ADSS-CORONA Coils are intended to reduce electrical stress at the ends of the metal rods of FIBERLIGN® Dielectric Dead-ends and Suspensions applied on ADSS cables installed in high voltage electrical fields. They are made from a light weight material and are designed to suppress electrical arcing at the ends of metal rods which can occur on some lines and may damage the plastic jacket of ADSS cables. Consult PLP® for specifics.

Application:

One unit is required at dead-end locations and two at suspension installations.

ADSS-CORONA Coils are designed and manufactured to be used only with FIBERLIGN Dielectric Dead-ends or Suspensions manufactured by Preformed Line Products. They should NOT be used with other dead-end or suspension devices.

Installation:

The Corona Suppression Coil section is centered over the ends of the metal rods for maximum stress reduction. The unit is secured in place by wrapping the unique gripping section directly over the Structural Reinforcing Rods of a dead-end and suspension. They will not interfere with the performance of the dead-end or the suspension.

They may be installed at the time of the original dead-end or suspension installation or are easily added later if desired. They can be quickly installed by hand or with conventional hot sticks.

Product Reuse:

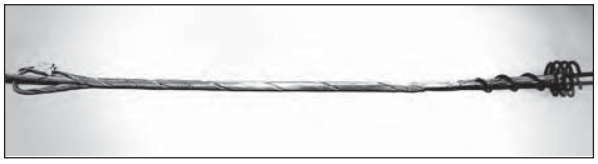
Do not reuse ADSS-CORONA Coils once permanently installed. They may be removed and positioned during the initial installation.

Product Selection:

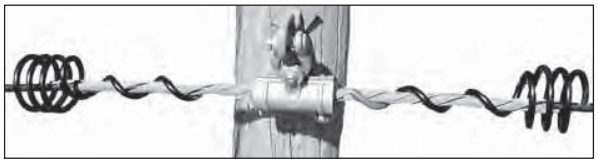
Consult PLP for application recommendations, catalog numbers and product availability.

APPLICATION OPTIONS

Used with a FIBERLIGN® Dielectric Suspension

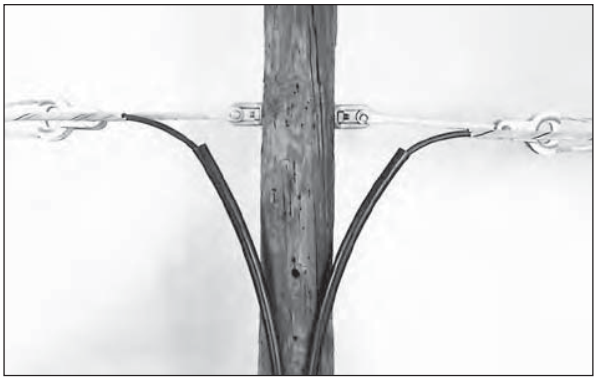


Used with a FIBERLIGN® Dielectric Dead-end



Used with a FIBERLIGN® Aluminum Suspension w/rods

FIBERLIGN® Cable Abrasion Protector & Cable Marker



FIBERLIGN ADSS Cable Abrasion Protector

The FIBERLIGN ADSS Cable Abrasion Protector is intended to protect ADSS cable jacket from abrasion from structures, trees or other cables. It is made from black, low density polyethylene for low cost and superior abrasion resistance. The tube comes in two lengths and three OD sizes. Either tube may be cut in the field to accommodate specific length needs.

Component Reuse:

ADSS Cable Abrasion Protectors may be reused as desired if in good condition.

ORDERING INSTRUCTIONS

Select the appropriate size from the catalog table in this section.

FIBERLIGN ADSS Cable Abrasion Protector

Catalog Number	Cable OD Range (in)	Cable OD Range (mm)	Protector ID in (mm)	Protector Length
PTG-0200	.238-.500	6.04-12.7	.5 (12.7)	8" (20.3 cm)
PTG-0201				6' (1.8 m)
PTG-0202	.501-1.000	12.8-25.4	1.0 (25.4)	8" (20.3 cm)
PTG-0203				6' (1.8 m)
PTG-0204	1.001-1.500	25.6-38.1	1.5 (38.1)	8" (20.3 cm)
PTG-0205				6' (1.8 m)

FIBERLIGN Fiber Optic Cable Marker

Intended Use:

The Fiber Optic Cable Marker is designed to visibly identify fiber optic cable at a wood utility pole or other structure. In addition to marking the cable with a distinct orange color, the word “CAUTION” is used to emphasize the cable type. The bright orange color is easily identifiable from ground level.

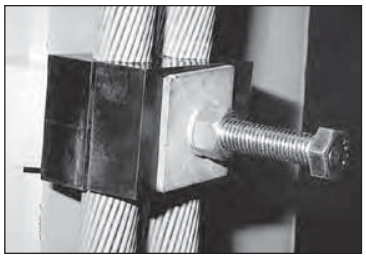
Material:

The fiber optic cable marker is manufactured from corrosion resistant, lightweight polyethylene. Polyethylene provides superior retention of physical characteristics over temperature ranges and exposure to ultraviolet radiation.

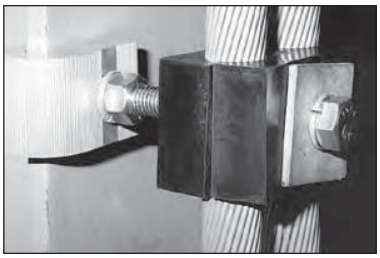
Catalog Number	Color	Cable Diameter Range Inches (mm)	Length Inches (mm)
500510903	Orange	0.7 - 1.1 (18-28)	8 (203)
The Fiber Optic Cable Marker is imprinted with the following information: “CAUTION FIBER OPTIC CABLE”. The characters are printed in black lettering that is 5/16" high and located opposite the installation split.			

FIBERLIGN® Downlead Cushion for OPGW or ADSS

FIBERLIGN Downlead Cushion mounted to wood pole



FIBERLIGN Downlead Cushion mounted to lattice tower – flush position



FIBERLIGN Downlead Cushion mounted to lattice tower – extended position

FIBERLIGN Downlead Cushion

GENERAL APPLICATION

The FIBERLIGN Downlead Cushion secures Optical Ground Wire (OPGW) downleads or ADSS cable downleads to structures while minimizing compressive clamping forces which could be transferred to the optical elements.

Material:

The FIBERLIGN downlead cushion is offered as an all urethane product for OPGW or ADSS applications, as well as an all aluminum alloy product for OPGW applications.

Description/Urethane:

The all urethane material is molded to form a base member and a top member, each containing two grooves which accommodate a specified range of OPGW or ADSS cable diameters. The base member can be applied to either curved pole surfaces or flat surfaces. The weather-resistant urethane is extremely durable yet pliable enough to firmly contain ADSS cable without damaging the plastic jacket.

Description/Aluminum:

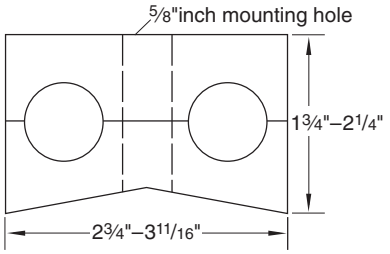
The all aluminum product has identical top and bottom halves that are designed for flat surface mounting. The two grooves are machined to accommodate a specified range of OPGW. The aluminum material provides an electrical path from the OPGW cable to the structure for bonding purposes.

Mounting:

The downlead cushion is designed to accept up to 5/8" diameter bolts or screws for mounting purposes. For additional mounting options see the Mounting Accessories on the next page.

Other configurations are available. Consult PLP for availability.

Dimensions for Urethane Downlead Cushion



Urethane Downlead Cushion for ADSS or OPGW

Catalog Number	Diameter Range			
	Inches		Millimeters	
	Min.	Max.	Min.	Max.
8003041	.375	.468	9.5	11.8
8003042	.469	.562	11.9	14.2
8003043	.563	.656	14.3	16.6
8003044	.657	.750	16.7	19.0
8003052	.751	.849	19.1	21.5
8003256	.850	.950	21.6	24.1
8003257	.951	1.050	24.2	26.6
8003379	1.051	1.190	26.7	30.2

Aluminum Downlead Cushion for OPGW

Catalog Number	Diameter Range			
	Inches		Millimeters	
	Min.	Max.	Min.	Max.
8003644	.328	.374	8.3	9.5
8003654	.375	.422	9.5	10.7
8003653	.423	.468	10.7	11.9
8003266	.469	.515	11.7	13.0
8003267	.516	.562	13.1	14.2
8003268	.563	.609	14.3	15.4
8003269	.610	.656	15.5	16.6
8003270	.657	.703	16.7	17.8
8003271	.704	.750	17.9	19.0
8003477	.751	.797	19.1	20.2

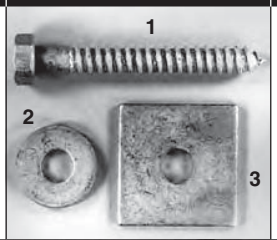
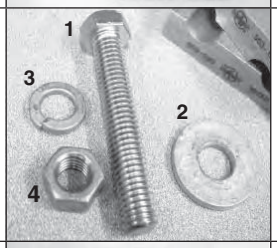
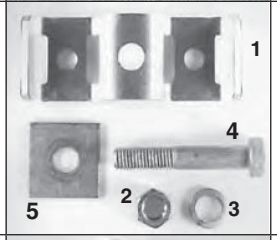
* To include Mounting Accessories, add respective suffix code to cushion catalog number:
- Suffix code H1 includes Hardware Kit for wood pole mount.
- Suffix code H3 includes 1/2–13 hex head bolt mounting kit for steel pole mount.
- Suffix code LTC1 or LTC2 includes Lattice Tower Clamp Kit for lattice tower mount.
- Suffix code B1 includes Limited Tension Banding Bracket Kit for concrete or steel structure mount.

FIBERLIGN® Downlead Cushion Mounting Accessories

MOUNTING ACCESSORIES

Mounting kits are offered for Wood Pole, Concrete Pole, Steel Pole, and Lattice Tower Structures. The following table lists the kits for the respective structures.

Downlead Cushion Mounting Accessories

Catalog Number	Suffix Code	Product Name	Kit Contents	Nomenclature	Structure Application
710010017	H1	Wood Pole Hardware Kit		1. 1/2" X 4" long Lag Screw 2. Round Washer 3. Square Washer	Wood Pole
710011655	H3	1/2-13 UNC HEX Head Bolt Hardware Kit		1. 1/2-13 x 3" long Hex Head Bolt 2. Flat Washer 3. Lock Washer 4. Hex Nut	Metal or Concrete Pole with 1/2"-13 UNC Female interface
710010576	B1	Limited Tension Banding Bracket		1. Banding Bracket 2. Hex Nut 3. Lock Washer 4. 5/8-11 x 3-1/2" long Hex Head Bolt 5. Square Washer	Metal or Concrete Pole
7000400	LTC1	Lattice Tower Clamp with 6" (152mm) long bolt		1. Clamp 2. Lock Washer (3) 3. Hex Nut (2) 4. Square Washer (2) 5. 5/8-11 Hex Head Bolt	Lattice Tower
7000401	–	Lattice Tower Clamp with 10" (254 mm) long bolt			
7000402	–	Lattice Tower Clamp with 8" (203 mm) long bolt			
70001045	LTC2	Light-Duty Lattice Tower Clamp		1. Clamp 2. Round Washer 3. Lock Washer 4. 1/2-13 x 5" long Hex Head bolt 5. Hex Nut (2)	

ORDERING INSTRUCTIONS

Mounting Kits may be ordered independently by catalog number or included with Downlead Cushions by adding Suffix Code to Downlead Cushion Catalog Numbers found on previous page. Ex. 8003042H1 includes a Urethane Downlead Cushion with Wood Pole Hardware Kit in the same carton.

FIBERLIGN® Downlead Cushion Mounting Accessories

MOUNTING KIT INSTALLATION NOTES

1/2-13 Hex Head Bolt Hardware Kit leaves approximately 1" (25 mm) of exposed thread for mounting engagement

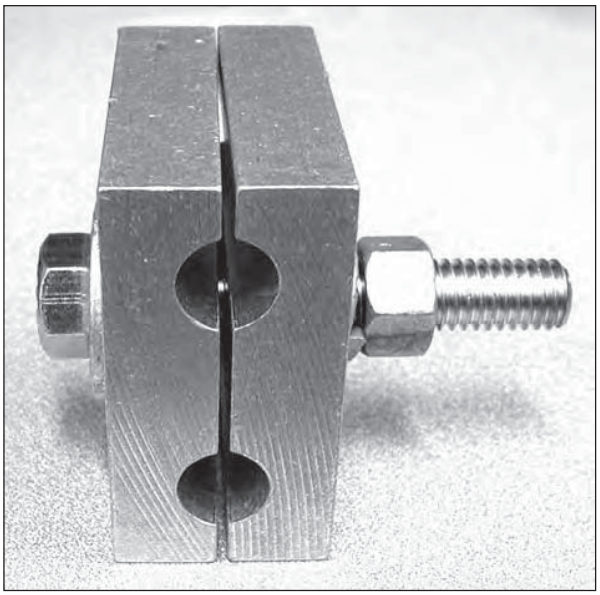
Limited Tension Banding Brackets are used to mount downlead cushions without drilling holes. Using a 3/4" wide High Strength band (not supplied), the banding system will support a 500 pound (2.2 kN) vertical load. All components are galvanized steel.

Lattice Tower Clamps with 6", 10", or 8" long bolts can be Flush mount or Extended mount as shown below.

It is recommended to loosely pre-assemble the components for your application before transporting up the tower. The unit may be installed on any portion of the structure in any orientation.

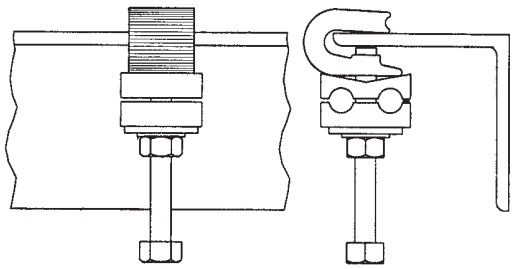
The C-shaped clamp is designed to accept up to 1-1/8" (28.5 mm) thick tower members. The clamp is made from high strength aluminum and all other components are galvanized steel.

LIGHT DUTY Lattice Tower Clamp is provided with a C-Shaped clamp that will accept up to 1-1/8" (28.5 mm) thick tower members. The clamp is made from high strength aluminum and all other components are galvanized steel.

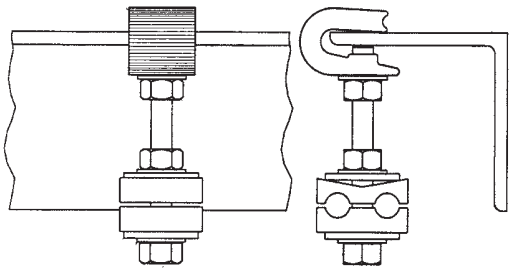


Downlead Cushion shown with mounting kit Catalog number 710011655, suffix code H3

Lattice Tower – Flush Mount



Lattice Tower – Extended Mount



FIBERLIGN® Motion Control Products

FIBERLIGN Spiral Vibration Damper for OPGW

The FIBERLIGN Spiral Vibration Damper effectively reduces levels of aeolian vibration on Optical Ground Wire (OPGW) cables.

Each FIBERLIGN Spiral Vibration Damper has a helically formed dampening section sized for interplay of damper and cable, to provide the action/reaction motion that opposes the natural vibration wave. A smaller gripping section gently grips the cable so that cable and fiber are not damaged or distorted and there is no optical signal loss.

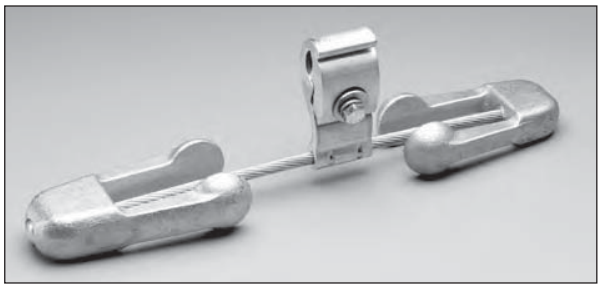
The degree of protection needed for a specific application depends on a number of factors such as cable type, line design, temperature, tension, and exposure to wind flow. Consult PLP® for specific recommendations.

FIBERLIGN Spiral Vibration Dampers for OPGW Cable

Catalog Number	Diameter Range		Length inch (m)	Per Units	Carton Weight (lbs)
	inch	mm			
5050104	.327-.461	8.3-11.6	51 (1.3)	50	34
5050105	.462-.563	11.7-14.3	53 (1.3)	50	36
5050106	.564-.760	14.4-19.3	61 (1.5)	25	50

Note: Consult Preformed Line Products for recommendations on the number of dampers required per span.

VORTX™ Vibration Damper



The VORTX Vibration Damper is a Stockbridge type damper. Consult Preformed Line Products for specific recommendations.

FIBERLIGN Dielectric Dampers for ADSS Cable

ADSS cables tend to vibrate at higher levels than other cables of comparable size, mainly due to their relatively lighter weight. Also the “soft” nature of their jackets and internal construction requires special consideration.

A special damper, called the FIBERLIGN Dielectric Damper, has been developed specifically for application on ADSS cables. It utilizes the same dampening characteristics as the FIBERLIGN Spiral Vibration Damper, plus provides more gentle gripping.

FIBERLIGN Dielectric Damper for ADSS Cable

Catalog Number	Cable Diameter Range (inches)	Cable Diameter Range (mm)	Length inches (m)	Units (per carton)	Carton Weight (lbs.)
50502393	.250-.326	6.3-8.2	49 (1.24)	50	26
50502272	.327-.461	8.3-11.6	51 (1.30)	50	28
50502274	.462-.563	11.7-14.3	53 (1.35)	50	30
50509862	.564-.770	14.3-19.5	65 (1.65)	50	46
50503057	.771-.876	19.5-22.2	71 (1.80)	25	30
50503576	.877-1.00	22.3-25.3	72 (1.91)	25	35
50503909	1.001-1.25	25.4-30.5	75 (2.29)	25	40

Note: Consult Preformed Line Products for recommendations on the number of dampers required per span.

FIBERLIGN Air Flow Spoiler

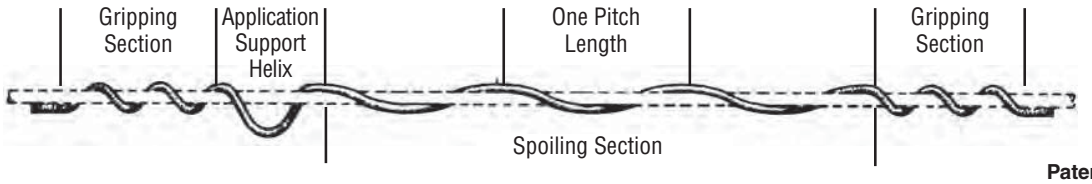
The central spoiling section of the FIBERLIGN Air Flow Spoiler suppresses galloping or dancing motion of OPGW or ADSS cables by providing a constantly changing aerodynamic profile.

Helical gripping sections on both ends of the FIBERLIGN Air Flow Spoiler secure the unit to the cable while minimizing compressive clamping forces.

The number and placement of FIBERLIGN Air Flow Spoilers in each span are determined by a computer program which considers the results of ongoing field and laboratory research.

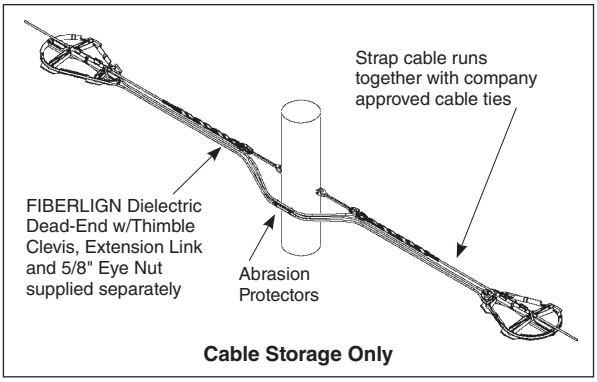
Consult Preformed Line Products for specific recommendations.

FIBERLIGN Air Flow Spoiler

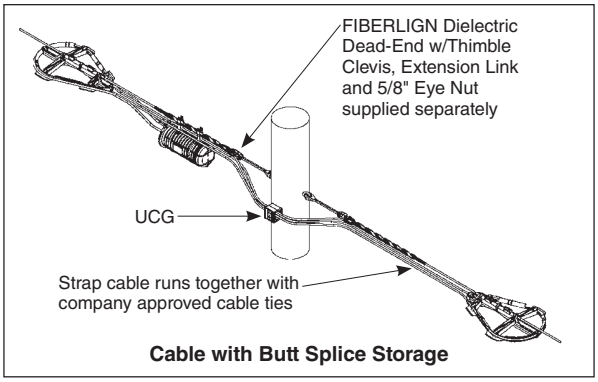


Patented

FIBERLIGN® CLAS (Center-Lock Aerial Slack) Storage



Cable Storage Only



Cable with Butt Splice Storage

GENERAL INFORMATION

Storing slack fiber optic cable is necessary to reach the clean environment of a splicing van, allow expansion for future community development, and compensate for street widening or pole damage. The FIBERLIGN® CLAS Storage provides a flexible method of handling all system challenges at minimal cost — and an alternative solution for limited pole space or labor intensive underground vault storage.

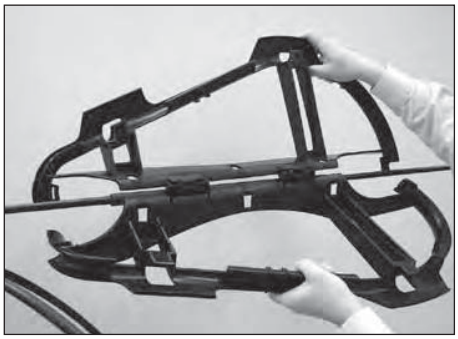
FIBERLIGN CLAS Storage is designed to store fiber optic cable in span while maintaining minimum bend radius requirements for cables up to 1" diameter. Kits are packaged for “cable only” or cable with butt splice closure storage in span. A cable storage system includes 2 CLAS Storage brackets with bracket straps and cable guide or protection (for cable passing the pole). Appropriate splice case brackets are added for cable & butt splice closure storage. Optional heavy duty cable straps may be added to any kit selection.

Note 1: Splice Closures and dead-ends are sold separately.

Note 2: The FIBERLIGN CLAS Storage System is an equal replacement for the discontinued FIBERLIGN In-Span Storage Series.

Center-Lock Design Reduces Labor & Parts

Each FIBERLIGN® CLAS Storage bracket has a male and female half joined at the center-lock hinge. The hinge allows the bracket halves to swing open, rest onto the main cable, and close into storage position (butterfly motion) — thus eliminating excess attachment components and metal fasteners. Heavy-duty bracket straps simplify attachment to the main cable, and simultaneously lock the bracket while securing slack cable. Consequently, preparation time to build the center connection is eliminated, installation time is reduced, and no tools are required.

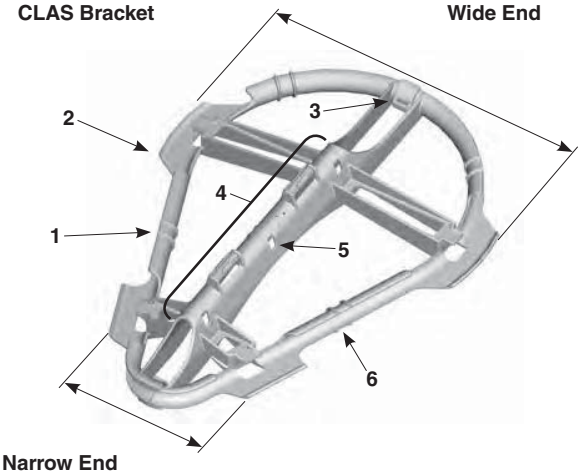


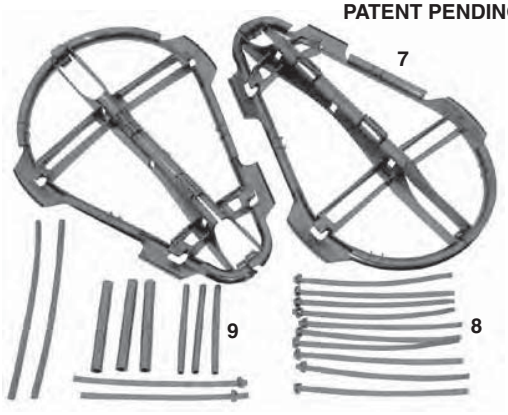
Center-Lock Hinge Swings Open

FEATURES

- Center-Lock Hinge allows CLAS Bracket to swing open and rest on top of main cable for convenient positioning and simple attachment.
- Extended hinge area distributes load along cable interface.
- Neatly organizes storage of cable and splice closures in the span instead of on the structure
- Minimizes infringement of poles space
- Maximum cable loop diameter support 20" (508 mm) with expansion tabs
- No limit to the amount of cable that can be stored.
- PLP Abrasion Protectors are offered as economical cable protection for cable passing the pole.
- Uni-Group Cable Guide (UCG) option can be used for low profile cable guide for cable passing the pole. Fasteners included
- Folds and separates at the Center-Lock Hinge for efficient storage.
- Safe all dielectric materials with superior system life.
- Heavy Duty Cable Straps can be ordered with kits or separately

FIBERLIGN® CLAS (Center-Lock Aerial Slack) Storage

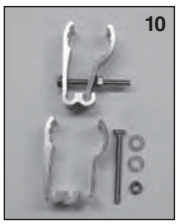


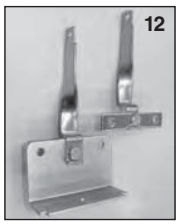


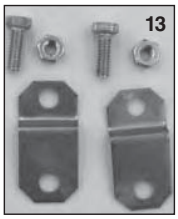
Items 7 through 9 – Components of CLAS Cable Storage only kit w/abrasion protectors. Cat. No. 710012375A

NOMENCLATURE

1. Cable strap locator
2. Expansion Tab for wider (20") storage options
3. Locking Slot – one at narrow end and wide end allows cable strap through
4. Center-Lock Hinge Area
5. Aperture – 3 openings to lace straps and secure to main cable
6. Slack/Surplus cable channel
7. 18" (457mm) CLAS Bracket male & female half
8. Heavy Duty (HD) 13" (330mm) long cable straps
9. 8" (203mm) Abrasion Protectors with 2 HD cable straps
10. ADSS Cable Clamps
11. COYOTE® Closure Brackets for COYOTE® PUP, 6"X22", and 8.5"X22" Closures.
12. COYOTE® RUNT Brackets
13. COYOTE® Splice Case Brackets (or aerial hanger brackets) included with every Stainless Steel COYOTE Splice Case – The Universal Mounting bracket (Item 11) is included with the 710012375S
14. Universal DOME Brackets for Domes up to 8" (203mm) OD Dome Closures includes two worm gear clamps
15. COYOTE® In-Line RUNT Brackets







INSTALLATION INFORMATION

FIBERLIGN® CLAS Storage detailed application procedures are provided with the product and also found on PLP's website. Instructions are provided for cable storage only as well as cable storage with butt splice. Heavy duty cable straps are used to secure each CLAS bracket to the cable.

18" (457mm) cable loop diameters are stored against the cable channel. Expansion tabs provide support for A) an outer cable wrap in Butt Splice applications or B) for large cables stored in an over and under (the tab) cable loop configuration. Maximum Loop diameter using expansion tabs is 20" (508mm).

FIBERLIGN® CLAS (Center-Lock Aerial Slack) Storage

Kits include either the economical **cable abrasion protectors** or the low profile **Uni-Group Cable Guide (UCG)** for the cable passing by the pole. **Cable abrasion protectors** are 8" long polyethylene slit sleeves that slide over the cable – secure in place with 2 factory supplied cable straps. Two sizes of abrasion protectors are supplied to cover cables up to .5" diameter and from .501"-1.00". The **UCG** offers a controlled method of guiding the cable pass the pole in tight pole space applications. This guide will capture up to 5 each 1" diameter cables within a 4-1/4" pole space. Either method can be used for any structure application. The UCG includes lag bolts for wood pole applications and machine bolts for banded applications on steel or concrete poles. The UCG will accept a maximum 3/4" (19mm) wide band – band is not supplied.

Cable straps are used to strap the cable to CLAS Storage brackets and cables together. PLP offers Heavy Duty 1/2" wide UV resistant cable straps with the kits as an option.

For relatively small diameter cables approaching 0.40" (10mm), an optional filler tube may be used to increase the outer diameter, which can help surface engagement with the cable straps. PLP offers filler tubes which are 20" long and slit for easy installation. See catalog number in ordering instructions.

ORDERING INSTRUCTIONS

FIBERLIGN® CLAS Storage Kits

The FIBERLIGN® CLAS Storage product has a suffix code system for ordering in various configurations. The main catalog number 710012375 identifies common components for kits with and without butt splice storage. Suffix codes are added to identify the type of Closure Bracket kit, the Pole Pass Type, and the option of 25 extra Cable Straps. Cable straps are used to strap the slack cable to CLAS Bracket and main cable. The ordering key is shown below along with an example.

Order Catalog # and choose options

710012375 ___ ___ ___

Closure Bracket Kit (C, R, R1, S, D1, blank)

Pole Pass Type (A,U)

Extra Cable Ties (T1, blank)

Aerial Closure Bracket Kits	Option
No Brackets – Cable Storage Only	Blank
Classic COYOTE PUP, 6" x 22", and 8.5" x 22"	C
Classic COYOTE RUNT	R
COYOTE In-Line RUNT Closure	R1
Stainless Steel Splice Case	S
Universal Dome Mounting Kit for 8" Max Dome O.D.	D1
Pole Pass Type	**Option**
Abrasion Protectors	A
Uni-Group Cable Guide	U
Extra Cable Ties	**Option**
No Extra Ties (10 included in kit)	Blank
25 Extra Heavy Duty Cable Ties	T1

Example: Cable Storage with BUTT Splice for 6.5" x 17" COYOTE® Dome and UCG:

Catalog No. **710012375D1U**
This kit includes:

COMPONENTS of 710012375 (common to all kits)
- 2 each FIBERLIGN CLAS Storage Brackets with bracket cable straps (5 per bracket)

SUFFIX CODE "D1"
- Universal Dome mounting brackets for Domes up to 8" Max O.D.

SUFFIX CODE "U"
- Uni-Group Cable Guide with fasteners.

Filler Tube	
Catalog Number	**Description**
699912980	Filler Tube for cables < .5" - 20" long, 10 pack

FIBERLIGN® CLAS (Center-Lock Aerial Slack) Storage

Aerial Closure Mounting Kits

Mounting kits are offered separately for Butt Splice products.

Catalog Number	Description
8003459	Mounting Kit for Classic COYOTE® Closures 6"x22", 8.5"x22", and COYOTE® PUP Closure for ADSS
8003474	Mounting Kit for Classic COYOTE® RUNT Closure for ADSS
8003460	Mounting Kit for COYOTE® Splice Cases (all sizes) includes ADSS Cable Clamps
8003833	Universal Mounting Kit for Dome Closures up to 8" Dia., for ADSS
8003864	Mounting Kit for COYOTE In-Line RUNT Closure for ADSS

ADSS Armor Rods

ADSS Armor Rods are available for ADSS cable protection at locations where Closure Mounting Brackets are installed away from Dead-ends. All sets have an overall length of 27" (.68 meters).

Catalog Number	Cable O.D. Range		Rod Dia. (mm)	Rods per set	Subsets	Color Code
	in	mm				
AR-0172	.400-.450	10.1-11.4	.102" (2.6)	15	5-5-5	Red
AR-0173	.451-.509	11.5-12.9	.102" (2.6)	15	5-5-5	Black
AR-0174	.510-.575	13.0-14.6	.102" (2.6)	16	4-4-4-4	Blue
AR-0175	.576-.649	14.7-16.4	.102" (2.6)	18	5-5-4-4	Orange
AR-0176	.650-.730	16.5-18.5	.121" (3)	17	5-4-4-4	Green
AR-0177	.731-.820	18.6-20.8	.121" (3)	19	5-5-5-4	Brown
AR-0178	.821-.920	20.9-23.3	.136" (3.5)	19	5-5-5-4	Yellow
AR-0179	.921-1.007	23.4-25.6	.136" (3.5)	20	5-5-5-5	Purple

Cross reference to FIBERLIGN® In-Span storage "NM" series

The former storage system, FIBERLIGN® In-Span storage "NM", has been replaced with the new FIBERLIGN® CLAS storage – former catalog numbers are cross referenced below to the new replacement.

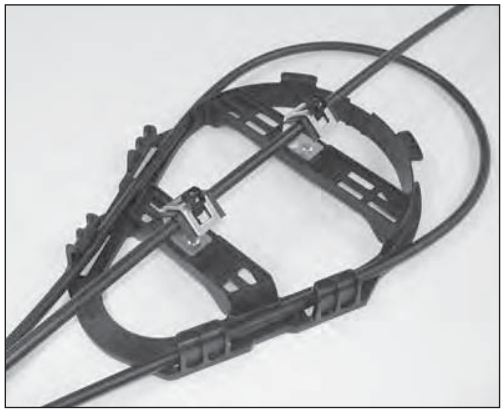
Cross Reference to FIBERLIGN In-Span Storage "NM"		
Description	In-Span "NM" Catalog Number	CLAS Storage Catalog Number
Cable Storage only	71001124	710012375U
Cable Storage w/COYOTE PUP, 6"x22", and 8"x22" mounting brackets	71001188C	710012375CU
Cable Storage w/COYOTE RUNT mounting brackets	71001188R	710012375RU
Cable Storage w/COYOTE Splice Case mounting brackets	71001188S	710012375SU
25 Extra Heavy Duty Cable Ties*	710011189	80808917
Cable Storage and extra cable ties	710011124T	710012375UT1
Cable Storage w/COYOTE PUP, 6"x22", and 8"x22" mounting brackets and extra cable ties	71001188CT	710012375CUT1
Cable Storage w/COYOTE RUNT mounting brackets and extra cable ties	71001188RT	710012375RUT1
Cable Storage w/COYOTE Splice Case mounting brackets and extra cable ties	71001188ST	710012375SUT1

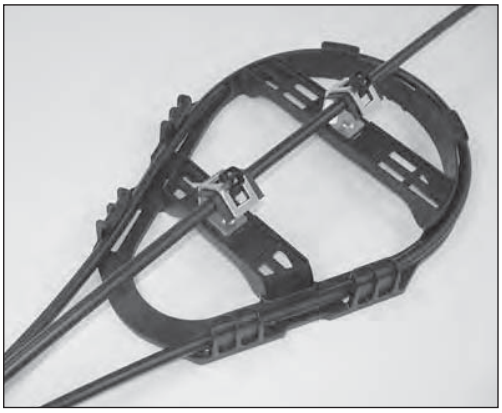
***NOTE:** For the In-Span Storage "NM" series, the extra cable tie option included 50 standard ties.

FIBERLIGN® CLAS (Center-Lock Aerial Slack) Storage

FIBERLIGN® In-Span Storage

12" and 16" Diameter Sizes
Hanger brackets for ADSS and Lashed Messenger Cable Systems



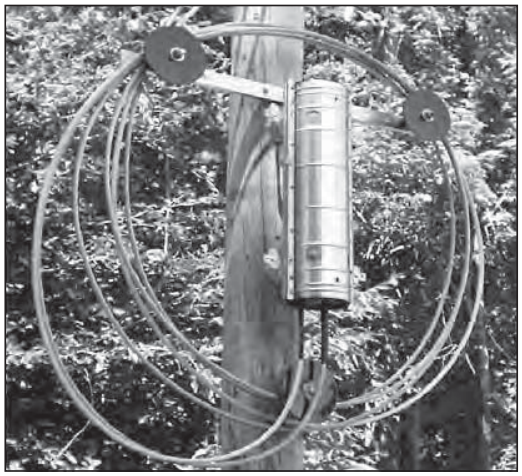


Captures loose cable loop and slides into final position.
Cable is secure and hands are free to apply cable ties.

Contact PLP for details, or visit www.preformed.com to view the online catalog.

FIBERLIGN® Cable Storage Systems

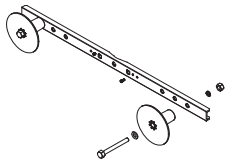
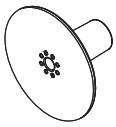
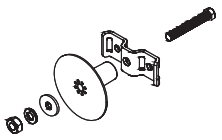
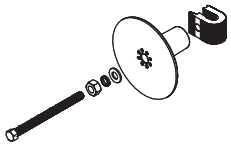
FIBERLIGN Vertical Cable Storage Assemblies for ADSS or OPGW Fiber Optic Cable



GENERAL INFORMATION

FIBERLIGN Vertical Cable Storage Assemblies provide a method for storing ADSS or OPGW cable on wood poles, metal poles, concrete poles, and lattice towers. Four basic kits can be combined into various configurations to suit your specific application. Cable ties (not supplied) can be used to neatly group cable and secure cable to spools if desired. The fundamental component of each basic kit is a durable urethane storage spool that provides a smooth curved surface for proper support of the stored cable. The four basic kit catalog numbers are found in the following table.

FIBERLIGN Cable Storage Assemblies: Basic Kit Information

Catalog Number	Kit Description	Storage Spool (mm)	Feature Component Information (mm)	Fasteners (5/8"-11 UNC Thread) (mm)	Optional Mounting Applications	Image of Kit
8003493	Vertical Cable Storage Assembly	Qty 2 7.5" (191) Flange OD, 2.2" (56) Stem OD, 4.1" (104) Stem Length	Cross Arm Galvanized Steel 2" x 1" (51 x 25.4) C-channel x 44" (1118) long, Max Spool to Spool Position 35" (889)	2 each: 6" (152) long bolt Flat Washer, Lock Washer, Hex Nut, 5/16" (8) Self tap Screw*	5/8" Thru Bolt, DA bolt, or 3/4" Wide Banded	
8003503	Cable Storage Spool	Qty 1 7.5" (191) Flange OD, 2.2" (56) Barrel OD, 4.1" (104) Stem Length	Polyurethane Spool	None	5/8" Thru Bolt or DA Bolt	
8003503B1	Cable Storage Spool w/Banding Bracket	Qty 1 7.5" (191) Flange OD, 2.2" (56) Barrel OD, 4.1" (104) Stem Length	Banding Bracket, Galvanized Steel 6" long x 2.3" wide, (152 x 58) Accepts Max 1-1/4" (32) metal band	1 each: 6" (152) long Bolt, Flat Washer, Lock Washer, Hex Nut	3/4" Banding	
8003503LTC1	Cable Storage Spool & Lattice Tower Clamp	Qty 1 7.5" (191) Flange OD, 2.2" (56) Barrel OD, 4.1" (104) Stem Length	C-Clamp Aluminum alloy, Mounts on Max 5/8" (16) thick tower leg	1 each: 8" (203) long Bolt, Flat Washer, Lock Washer, Hex Nut	Clamp for Lattice Tower (included)	

Note: Thru Bolts, Double Arming Bolts (DA Bolts), and bands are not supplied with the kits.

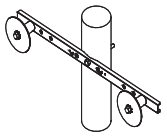
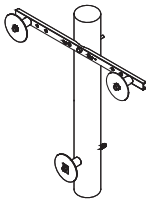
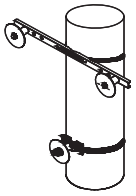
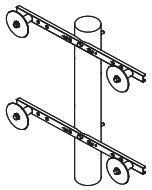
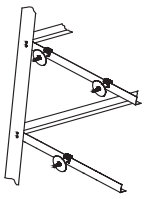
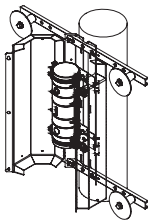
Features:

- Flexible Configurations
- Optional Mounting conforms to most structures
- Accommodates cable manufacturer suggested storage diameters
- Black Urethane Storage Spool provides soft curved support for cable
- Steel Components are galvanized or zinc plated.
- COYOTE Defender Application – Simple Self Tapping Screw stops.

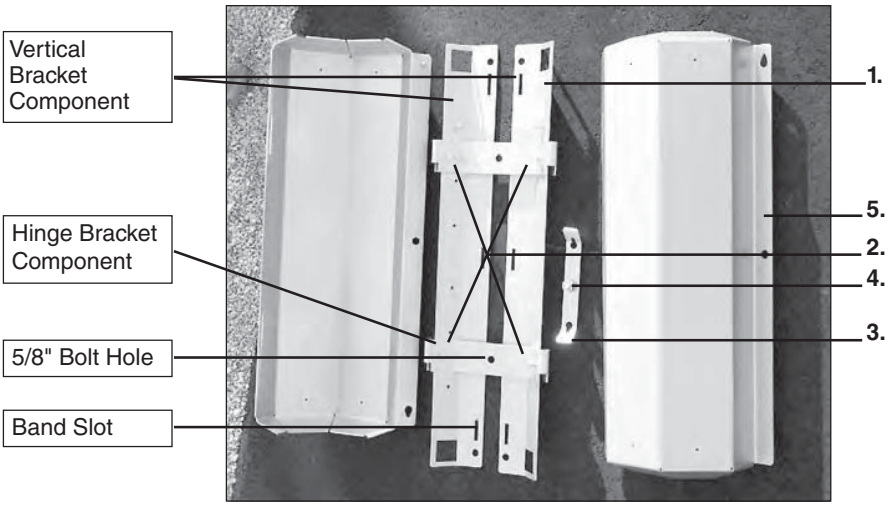
FIBERLIGN® Cable Storage Systems

ORDERING INSTRUCTIONS

The basic kits can be combined into various configurations. Here are some suggested arrangements:

FIBERLIGN® Vertical Cable Storage Kit Combinations for Suggested Configurations			
Configuration Description	Catalog Combination & Quantity		Configuration
	Order Quantity	Catalog Numbers	
Single Arm	1	8003493	
Triple Spool/Single Arm	1	8003493	
	1	8003503	
Banded Triple Spool/ Single Arm	1	8003493	
	1	8003503B1	
Double Arm Application	1	8003569	
Lattice Tower Clamped Triple Spool	3	8003503LTC1	
COYOTE Defender Double Arm	1	8003569	

COYOTE® Defender



Nomenclature:

1. Mounting Frame
2. Hex Head Self Tapping Screws, 5/16"x1" Long
3. Adjustable Horizontal Bracket
4. Hex Head Bolt, 5/8"–11x1.5" Long
5. Door
6. Vertical Mounting Bracket for Splice Cases
7. Adapter Bracket for COYOTE Closures

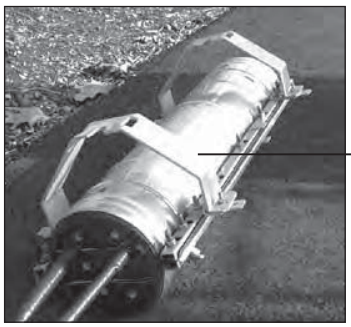
GENERAL INFORMATION

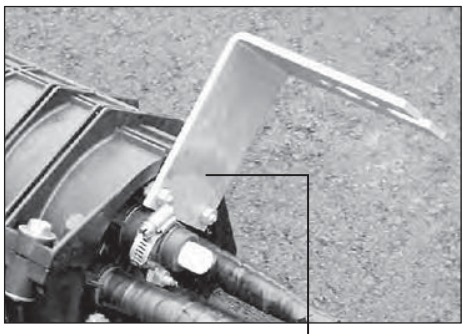
The COYOTE Defender provides added protection for (a) COYOTE Splice Case sizes 6.5", 8", and 9.5" up to 28" long and (b) COYOTE Closure sizes 6.0" and 8.5" – all lengths. The Mounting Frame comes assembled from the factory – Hinge Brackets and Vertical Bracket components are fastened with 5/16" x 1" long self tapping screws. The Hinge Brackets are positioned 19" apart to mount the 28" long COYOTE Splice Cases. All other Splice Cases and Closures are accommodated with the Adjustable Horizontal Bracket. Two large doors and the mounting frame surround the closure or splice case and allow easy access for future maintenance or expansion. The frame can be installed first, followed by each door (door weight 38# each) thus reducing the chore of lifting a bulky steel unit – this makes the Lineman's task manageable and less hazardous.

MOUNTING OPTIONS: The COYOTE Defender can be mounted with thru bolts, DA bolts, or banding. The frame will accept standard 5/8" thru bolts and DA bolts. Use the mounting frame as a template to locate positions for drill through on wood pole structures. Double Arming bolts must not extend 1.5" beyond the Hinge Bracket surface to avoid splice case interference. Banding slots are provided in 6 positions along the frame. The band slots will accept up to 1.5" wide banding. For banding applications, 5/8" x 1.5" bolts are used to provide attachment to the mounting frame.

ORDERING INSTRUCTIONS

Two catalog numbers are available, one for COYOTE Splice Case applications, and the other for the COYOTE Closure applications. The Defender kit for the COYOTE SPLICE CASE (#8003491) includes a Vertical mounting bracket kit to hang the case onto the mounting frame of the Defender. Likewise, the Defender kit for the COYOTE Closure (#8003492) includes an adapter bracket kit to hang the closure onto the mounting frame of the Defender.





COYOTE® Defender

The Adjustable Horizontal Bracket is not required for the 28" long Splice Cases. However this bracket can be positioned on the mounting frame to adapt the other sizes – these positions are listed in the FRAME CONFIGURATION column of the following table.

COYOTE Defender Catalog Numbers and Frame Configuration

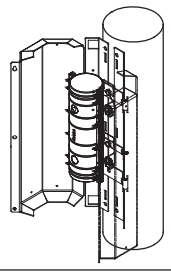
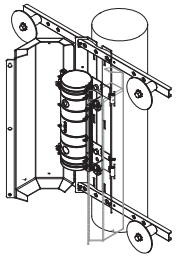
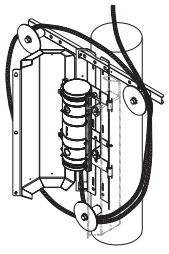
Catalog Number	Application	
	Type	Size (mm)
8003491	COYOTE Splice Case	6.5" X 22" (165 X 559)
8003491		6.5" X 28", 8" X 28", 9.5" X 28" (165 X 711, 203 X 711, 241 X 711)
8003492	COYOTE Closure	6" X 17" COYOTE PUP (152 X 432)
8003492		6" X 22", 8.5" X 22" (152 X 559, 216 X 559)"
800012162	COYOTE Dome Closure	6.5" X 17", 6.5" X 22"
800011916	COYOTE RUNT Closure	8.5" X 14.75"

Accessories:
Vertical Cable Storage Assemblies:
1) Double Arm configuration: order 1 each Catalog Number 8003569
2) Triple Spool/Single Arm: order 1 each Catalog Number 8003493 and 1 each Catalog Number 8003503
3) Banded Triple Spool/Single Arm: order 1 Catalog Number 8003493 and 1 each Catalog Number 8003503b1
Note: The COYOTE Defender Frame accepts the standard cross arm of vertical cable storage assemblies, 5/16" x 1" self tapping screws lock arms into place.

ACCESSORIES

Vertical Cable Storage Assemblies found earlier in this section can be used with the COYOTE Defender. Large rectangular slots at the top and bottom of the mounting frame accept the Cable Storage Cross Arm.

COYOTE Defender with and Without Vertical Cable Storage Accessories

		
Basic Kit*	**Kit With Double Arm Storage Assemby***	**Kit With One Cable Storage Assembly and One Spool***
	***Splice Case not included**	

PREFORMED LINE PRODUCTS

Section 8 – FIBERLIGN® Hardware for Aerial FTTP Applications

Table of Contents

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FIBERLIGN® Products for ADSS Applications

GENERAL INFORMATION

All Dielectric Self Supporting (ADSS) cables designed for the last mile are relatively small and have very low load requirements for pole-to-pole distribution and pole-to-premise service drops. Distribution span lengths are typically less than 300' and service drops are typically less than 150'. ADSS type drop cables are supported with non-metallic strength members and protected by an outer plastic sheath. This section covers attachment hardware products for ADSS cables followed by similar products for Figure 8 cables.

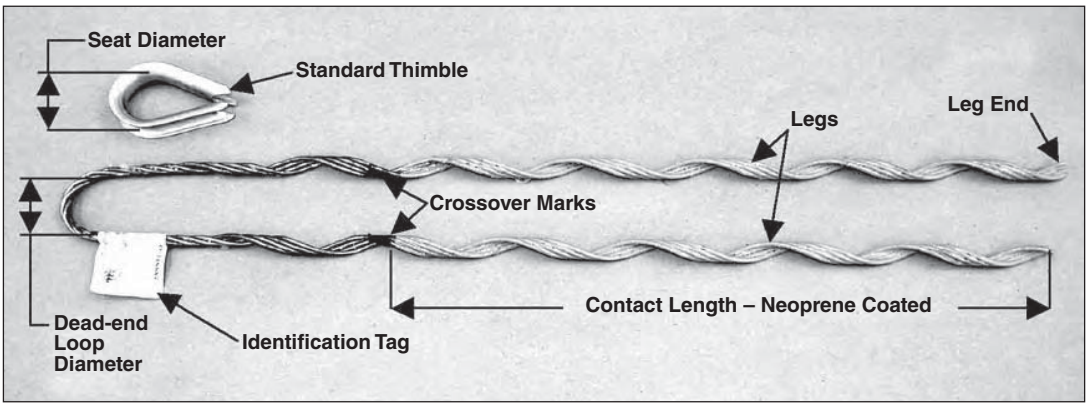
ADSS Drop cables are available in round and flat profile construction. FIBERLIGN® Products for ADSS are designed for both round and flat profile cables.

FIBERLIGN Products for ADSS include:

- FIBERLIGN ADSS Drop Cable Dead-end
- FIBERLIGN Midspan Drop
- FIBERLIGN Lite Support
- FIBERLIGN Tangent Support

FIBERLIGN® Products for ADSS Applications

FIBERLIGN® ADSS Drop Cable Dead-end



Formed Wire Design

Classified as a formed wire design, The FIBERLIGN® ADSS Drop Cable Dead-end is able to secure the soft pliable surface of a drop cable without causing attenuation. Unlike wedge type dead-ends, the formed wire dead-end effectively transfers the axial load on the cable at the end of the dead-end legs to a low uniform radial compression near the dead end loop. This transition of force is distributed over the length of the product thus allowing secure holding capability with minimized pressure on the cable or messenger.

It was determined through testing that traditional wedge clamps used on copper communications cables can cause fiber attenuation on ADSS drop cables due to concentrated loads from high localized pressure. In addition, the single wire bail of the wedge clamp has much less strength than the multi-wire loop section of the formed wire design. The FIBERLIGN® ADSS Drop Cable Dead-end is applied directly to the pliable surface of the cable without damage to the jacket or fiber signal. The corrosion resistant aluminum alloy dead-ends are neoprene coated to provide a compatible interface with the polyethylene cable jacket.

Drop Cable System Characteristics:

Due to the variety of cable designs from various manufacturers, the holding capabilities of drop cable dead-ends will vary as well. The following characteristics are presented for a general idea of the typical requirements for a drop cable application (see Caution Statement below).

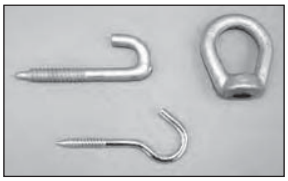
- Distribution Max Span Length Approx 300' (91 m)
- Service Drop Max Span Length Approx. 200' (61 m)
- Installation Load Approx. 70# to 100# (311 to 444 N)
- Loaded Tension Approx. 200# to 500# (890 to 2220N)

Caution: Contact the cable manufacturer for specific cable capabilities to determine proper sag and tension levels for your system.

Attachment Fittings:

The loop of the FIBERLIGN ADSS Drop Cable Dead-end will fit over a minimum diameter of 1.0" (25 mm) and a maximum diameter of 1-5/8" (41 mm). The dead-end is designed to fit over common guy wire dead-end pole fittings. Thimbles can be used for fittings that may cause high stress in the loop of the dead-end. PLP offers a ½" standard thimble P/N 00065474. Optimal fittings provide proper loop support without a thimble.

Thimble Required



Optimal Fittings – No Thimble Required

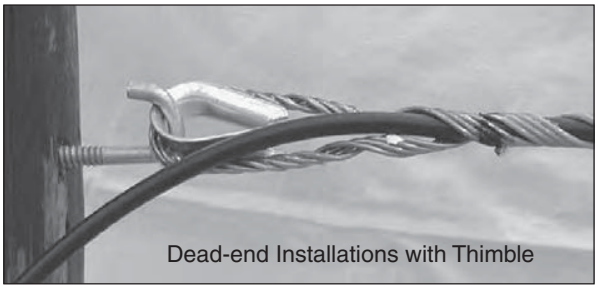
FIBERLIGN® Products for ADSS Applications

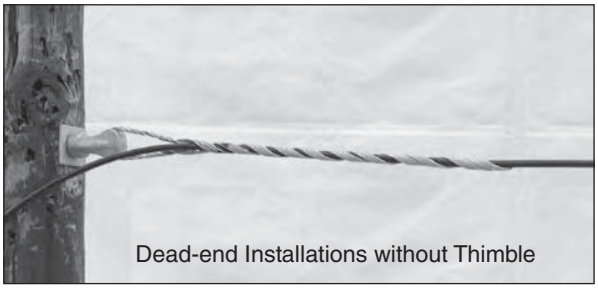
FIBERLIGN® ADSS Drop Cable Dead-end continued

ORDERING INSTRUCTIONS

- FIBERLIGN ADSS Drop Cable Dead-end (Round profile) – Select the appropriate FIBERLIGN ADSS Drop cable Dead-end based on the cable diameter – the first catalog table in this section lists the range for each dead-end. If your cable does not fall within any of the published ranges, please contact the PLP for further assistance. Add Suffix code "T" to receive a 1/2" Galvanized Steel Standard Thimble with the dead-end.

- FIBERLIGN ADSS Drop Cable Dead-end (Flat profile) – FIBERLIGN ADSS Drop Cable dead-ends are listed for the appropriate flat cable design. If your cable does not fall within any of the published ranges, please contact PLP for part number and further assistance. Add Suffix code "T" to receive a 1/2" Galvanized Steel Standard Thimble with the dead-end.


Dead-end Installations with Thimble


Dead-end Installations without Thimble

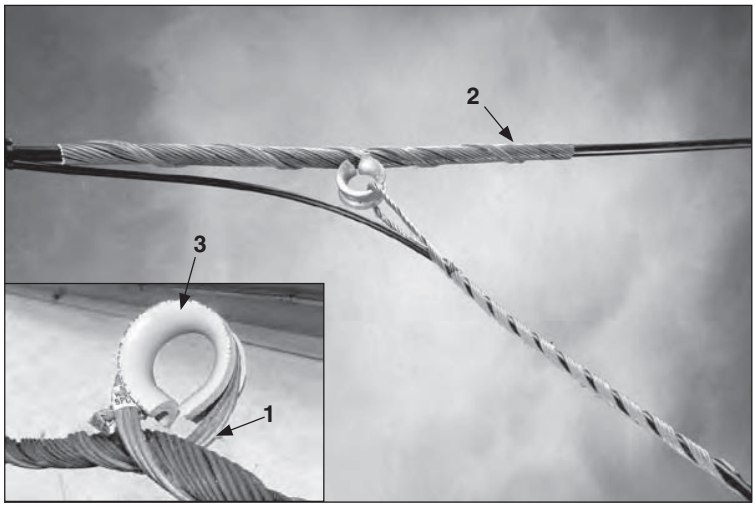
FIBERLIGN® ADSS Drop Cable Dead-ends – Round Profile						
ADSS Drop Dead-end Catalog Number[1]	Cable Diameter Range[2]		Color Code	Length Inches	Units	Wt./Lbs.
	Inches	mm			Per Carton	
288811285	0.251-0.260	6.4-6.6	Red	18	100	10
288811337	0.301-0.310	7.6-7.9	Red	22	100	18
288811350	0.321-0.330	8.2-8.4	Black	23	100	20
288811274	0.351-0.360	8.9-9.1	Black	24	100	21
288811269	0.361-0.370	9.2-9.4	Black	22	100	18
288811353	0.371-0.380	9.4-9.6	Yellow	27	100	27

FIBERLIGN® ADSS Drop Cable Dead-ends – Flat Profile						
ADSS Drop Dead-end Catalog Number[1]	Flat Cable Information[2]		Color Code	Length Inches	Units	Wt./Lbs.
	Dimension[3] L x W inches (mm)	Manufacturing			Per Carton	
288811353	.330 x .172 (8.3 x 4.3)	Corning	Yellow	27	100	27
	.310 x .170 (7.8 x 4.3)	OFS				
	.330 x .20 (8.5 x 5.0)	Prysmian				
288811352	.31 x .15 (7.9 x 3.81)	DRAKA (6 fiber)	Red	22	100	23
288812284	.410 x .200 (10.4 x 5.1)	DRAKA (12 fiber)	Orange	27	100	27

1 Add suffix code "T" to dead-end catalog number to receive P/N 00065474 Thimble. P/N 00065474 is a 1/2" standard thimble - weight is 0.12 lbs. each.
2 Contact PLP for cable applications not shown
3 Dimensions L x W represent Length x Width of the Flat Cable Cross-section.

FIBERLIGN® Products for ADSS Applications

FIBERLIGN® ADSS Midspan Drop



NOMENCLATURE

1. Midspan Connector
2. Structural Reinforcing Rods
3. Thimble

APPLICATION

If direct attachment from the pole to the premise is obstructed or restricted for clearance reasons, it may be beneficial to re-direct cable drops from mid-span. The FIBERLIGN® ADSS Midspan Drop (FAMD) can be applied anywhere along the backbone cable. The ADSS Backbone cable must be strong enough to endure the system side-load requirements. The FAMD can be loaded to 500# maximum perpendicular load.

The Structural Reinforcing Rods (SRR) protect the ADSS branch cable from excessive bending and allow side-loads without fiber attenuation. The Midspan Connector is installed over the SRR and provides the loop attachment point. A durable PVC thimble reinforces the loop area of the FAMD and provides proper loop support for the joining drop cable dead-ends. No tools are required for installation.

CAPABILITIES

- Connect up to two Cable Drops
- Supports FIBERLIGN® Drop Cable Dead-ends
- Maximum Perpendicular Load 500#

ORDERING INSTRUCTIONS

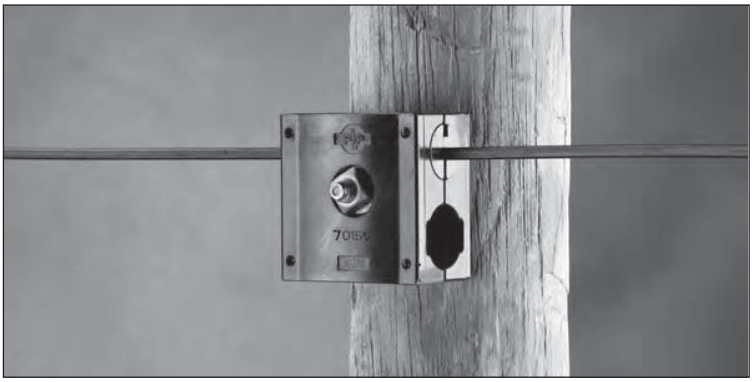
Select the appropriate FAMD based on the ADSS Branch Cable diameter.

ADSS Midspan Drop			
Catalog Number	Cable Range		Color Code
	Inches	mm	
3800005	.350-.399	8.9-10.1	White
3800006	.400-.450	10.2-11.4	Red
3800007	.451-.509	11.5-12.9	Black
3800008	.510-.575	13.0-14.6	Blue
3800009	.576-.649	14.7-16.5	Orange
3800010	.650-.730	16.6-18.5	Green
3800011	.731-.820	18.6-20.8	Brown
3800012	.821-.920	20.9-23.4	Yellow
3800013	.921-1.007	23.5-25.6	Purple

Overall Length = 27 inches, 685 mm.
Thimble Catalog Number 00070253

FIBERLIGN® Products for ADSS Applications

FIBERLIGN® Lite Support for ADSS Drop Cables



APPLICATION

As referenced in Section 6 of this catalog, the FIBERLIGN® Lite Support (FLS) sizes were expanded to accommodate drop cables. For service drops, the FLS can provide a solution for intermediate pole locations. The FLS is the perfect product for distribution of multiple drop cables in an FTTP system as each FLS can support two cables and the FLS has stackable housings. One 5/8" double arming bolt or through bolt can secure stacked FLS units within the same pole space. This keeps cables neatly secured to the pole.

CAPABILITIES

- Accepts round and flat profile ADSS drop cables
- Span lengths up to 300' nesc heavy
- Line angles up to 20 degrees
- Multi-cable options
- Two cables per housing
- Unbalanced load up to 130 lbs. Depending on cable diameter.
- Stackable housings for 4 or more cables

ORDERING INSTRUCTIONS

- FIBERLIGN Lite SUPPORT (round profile) – Select the appropriate FIBERLIGN ADSS Lite Support based on the cable diameter. For sizes not listed, a table of complete sizes can be found in section 6. Add Suffix code “H2” to receive the banding hardware kit.

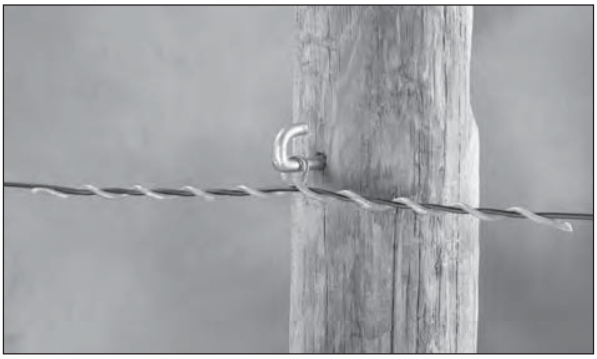
- FIBERLIGN Lite SUPPORT (flat profile) – for sizes from (.14" x .28") to (.18" x .44") use Catalog No. 4800107. Metric (3.5mm x 7.1 mm) to (4.5mm x 11.2mm).

Catalog Number	Insert Size	Cable Diameter Range[1]			
		Min. (in)	Max. (in)	Min. (mm)	Max. (mm)
4800107	SMALL	0.250	0.280	6.35	7.12
4800109		0.305	0.375	7.74	9.53
480011817	LARGE	0.250	0.280	6.35	7.12
480011818		0.281	0.304	7.13	7.73
480011819		0.305	0.375	7.74	9.53
480011820	DUAL (Small & Large)	0.250	0.280	6.35	7.12
480011821		0.281	0.304	7.13	7.73
480011822		0.305	0.375	7.74	9.53

[1] Round Profile Cable Diameter Range. Flat cables use Catalog No. 4800107.
Sizes up to .700" for the Small Insert and 1.029" for the Large Insert can be found in the earlier section.
Add Suffix Code H2 for banding hardware kit that includes Retaining bolt, washer and lock washer.

FIBERLIGN® Products for ADSS Applications

FIBERLIGN® TANGENT Support for ADSS Drop Cables



APPLICATION

The FIBERLIGN® Tangent Support (FTS) offers another method of supporting ADSS Drop Cables with excellent unbalance load capability and bend relief support. This product is designed to connect directly to J-hooks for a economical alternative. One FTS can reduce pole clutter by replacing two dead-end and j-hook connections.

For multi-cable attachments, a long loop version of the FTS can be provided. This will allow two vertically spaced cables to suspend from the same j-hook.

CAPABILITIES

- Accepts round and flat profile ADSS drop cables
- Span lengths up to 300' NESC heavy
- Line angles up to 20 degrees
- Multi-cable options
- Short loop design standard
- Long loop design for multi-cable
- Unbalanced load
- 100 To 200 lbs. Depending on cable dia.

FEATURES AND MATERIALS

- Corrosion Resistant Materials
- Relieved Rod ends – safe against cable jacket
- Elastomer Coating for soft pliable interface

ORDERING INSTRUCTIONS

- FIBERLIGN Tangent Support (Round profile) – Select the appropriate FIBERLIGN Tangent Support based on the cable diameter. Contact PLP technical support for sizes not listed.
- FIBERLIGN Tangent Support (Flat profile) – Select the appropriate FIBERLIGN Tangent Support based on the Cable information referenced. Contact PLP technical support for sizes not listed.

FIBERLIGN® Tangent Supports for Round Cable Profile

Catalog Number	Cable Range (inches)		Cable Range (mm)		Color Code	Overall Length (inches)	Overall Length (mm)
6126001	.251	.260	6.4	6.6	Red	18	457
6126002	.261	.270	6.7	6.9	Blue	19	483
6126003	.271	.280	6.8	7.1	Green	19	483
6126004	.281	.290	7.2	7.4	None	20	508
6126005	.291	.300	7.5	7.6	Pink	20	508
6126006	.301	.310	7.7	7.9	Yellow	20	508
6126007	.311	.320	8.0	8.1	Orange	20	508
6126008	.321	.330	8.3	8.4	Red	23	584
6126009	.331	.341	8.5	8.7	Blue	23	584
6126010	.342	.350	8.8	8.9	Green	24	610
6126011	.351	.360	9.0	9.1	None	25	635
6126012	.361	.370	9.2	9.4	Pink	26	660
6126013	.371	.380	9.5	9.7	Yellow	27	686
6126014	.381	.390	9.8	9.9	Orange	27	686
6126015	.391	.400	9.9	10.2	Red	27	686

FIBERLIGN® Tangent Supports for Flat Cable Profile

Catalog Number	Flat Cable Information Cable Range (mm)		Color Code	Overall Length (inches)	Overall Length (mm)
	Dimension LxW inches (mm)	Mfg.			
6126009	.31 x .15 (7.8 x 3.7)	DRAKA	Blue	23	584
6126010	.31 x .17 (7.8 x 4.3)	OFS	Green	24	610
6126012	.33 x .17 (8.5 x 4.3)	Corning	Purple	26	660
6126013	.33 x .20 (8.5 x 5.0)	Prysmian	Yellow	27	686
612612245	.410 x .200 (10.4 x 5.1)	DRAKA	Yellow	27	686
612612245	.460 x .195 (11.7 x 4.9)	REMEE	Yellow	27	686

FIBERLIGN® Products for Figure 8 Drop Cable Applications

GENERAL INFORMATION

Figure 8 cables designed for the last mile are relatively small and have very low load requirements for pole-to-pole distribution and pole-to-premise service drops. Distribution span lengths are typically less than 300' and service drops are typically less than 150'. Figure 8 type drop cables are typically supported with metallic strength members and protected by an outer plastic sheath. A web joins the messenger component to the fiber optic component. This section covers attachment hardware products for Figure 8 Drop cables.

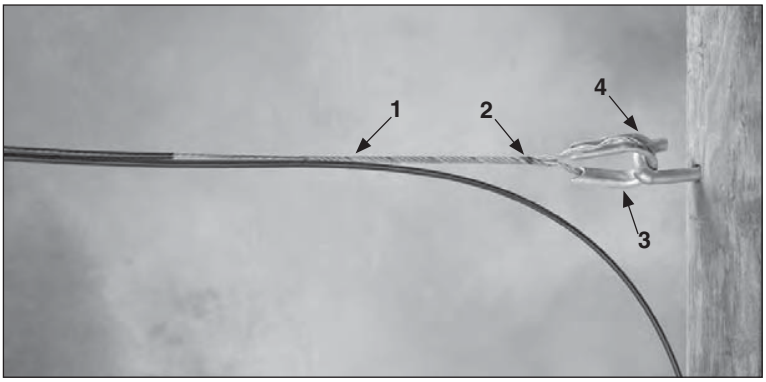
Messenger materials vary from galvanized steel to stainless steel material.

FIBERLIGN Products for Figure 8 include:

- FIBERLIGN® Drop Cable Dead-end
- FIBERLIGN® Lite Support
- FIBERLIGN® Tangent Support

FIBERLIGN® Products for Figure 8 Drop Cable Applications

FIBERLIGN® Figure 8 Drop Cable Dead-end



NOMENCLATURE

1. Dead-end
2. Crossover Mark
3. Thimble
4. Loop

APPLICATION

The FIBERLIGN® FIGURE 8 Drop Cable Dead-end has high strength in a light-weight package. Simple to install, the dead-end is applied on the messenger component of the Figure 8 cable after separating the fiber component at the web.

Depending on the jacket adherence, the dead-end may be applied over the jacket or onto the bare messenger after the jacket is removed.

Materials:

FIBERLIGN FIGURE 8 Drop Cable dead-ends are made from corrosion resistant materials that match the messenger strand material.

Attachment Fittings:

The loop of the FIBERLIGN FIGURE 8 Drop Cable Dead-end will fit over a minimum diameter of 1.0" (25 mm) and a maximum diameter of 1-5/8" (41 mm). The dead-end is designed to fit over common guy wire dead-end pole fittings. Thimbles can be used for fittings that may cause high stress in the loop of the dead-end. PLP offers a 1/2" standard thimble P/N 00065474. Optimal fittings provide proper loop support without a thimble.

ORDERING INSTRUCTIONS

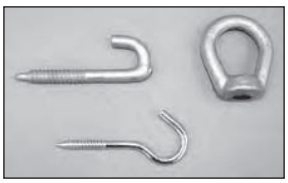
Select the appropriate dead-end based on the cable diameter. If your cable does not fall within any of the published ranges, please contact the PLP for further assistance. Add Suffix code "T" to receive a 1/2" Galvanized Steel Standard Thimble with the dead-end.

FIBERLIGN® Figure 8 Drop Cable Dead-ends

Catalog Number[1]	Cable Information[2]		Color Code	Length Inches
	Dimension[3] L x W in. (mm)	Mfg.		
699911619[4]	.380 x .160 (9.6 x 4.1)	Corning	Yellow	13"
200811230	.300 x .170 (7.6 x 4.3)	Pirelli	Red	8"

1 Add suffix code "T" to dead-end catalog number to receive P/N 00065474 Thimble. P/N 00065474 is a 1/2" standard thimble – weight is 0.12 lbs. each.
2 Contact PLP for cable applications not shown
3 Dimensions L x W represent Length x Width of the Figure 8.
4 Apply over jacket

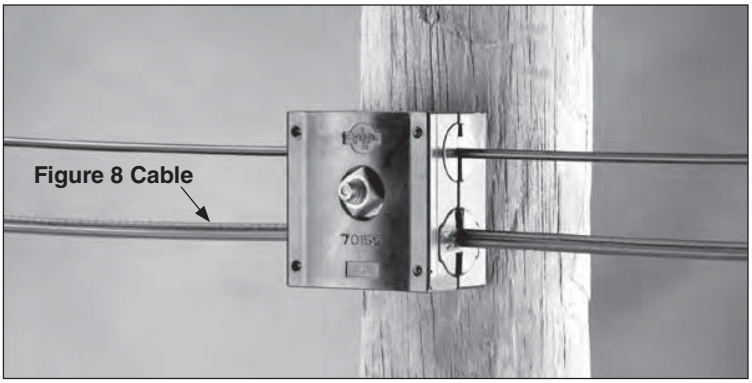
Thimble Required



Optimal Fittings – No Thimble Required

FIBERLIGN® Products for Figure 8 Drop Cable Applications

FIBERLIGN® Lite Support for FIGURE 8 Drop Cables



Lite Support with dual inserts showing figure 8 and round drop cables.

APPLICATION

As referenced in Section 21 of this catalog, the FIBERLIGN® Lite Support (FLS) sizes were expanded to accommodate drop cables. For service drops, the FLS can provide a solution for intermediate pole locations. The FLS is the perfect product for distribution of multiple drop cables in an FTTP system as each FLS can support two cables and the FLS has stackable housings. One 5/8" double arming bolt or through bolt can secure stacked FLS units within the same pole space. This keeps cables neatly secured to the pole.

CAPABILITIES

- Secures most figure 8 cable in soft one-piece insert.
- Span lengths up to 300' NESC heavy.
- Line angles up to 20 degrees.
- Two cables per housing.
- Stackable housings for 4 or more cables.

ORDERING INSTRUCTIONS

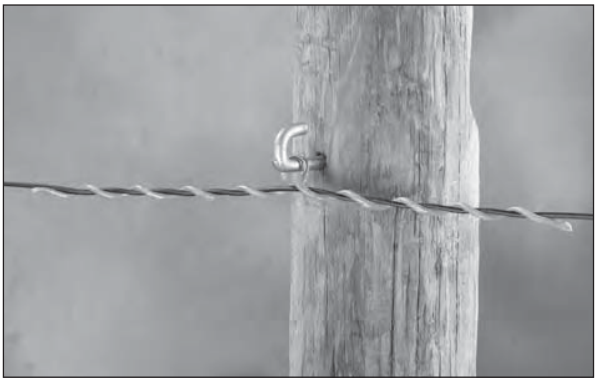
Small and Large inserts are offered. A Dual insert kit is available as well. Most all available Figure 8 cables can be accomodated with the insert designs listed below.

Catalog Number	Insert Size	Cable Dimension			
		Min. L X W (in)	Max. L X W (in)	Min. L X W (mm)	Max. L X W (mm)
4800107	SMALL	.3 x .16	.44 x .18	7.6 x 4.1	11.2 x 4.6
480011817	LARGE	.3 x .16	.44 x .18	7.6 x 4.1	11.2 x 4.6
480011820	DUAL (Small & Large)	.3 x .16	.44 x .18	7.6 x 4.1	11.2 x 4.6

Add Suffix Code H2 for banding hardware kit that includes retaining bolt, washer and lock washer.

FIBERLIGN® Products for Figure 8 Drop Cable Applications

FIBERLIGN® Tangent Support for Figure 8 Drop Cables



APPLICATION

The FIBERLIGN® Tangent Support (FTS) offers another method of supporting FIGURE 8 Drop Cables with excellent unbalance load capability and bend relief support. This product is designed to connect directly to J-hooks for a economical alternative. One FTS can reduce pole clutter by replacing two dead-end and J-hook connections.

For multi-cable attachments, a long loop version of the FTS can be provided. This will allow two vertically spaced cables to suspend from the same J-hook.

CAPABILITIES

- Accepts figure 8 cable and flat profile ADSS drop cables
- Span lengths up to 300' NESC heavy
- Line angles up to 20 degrees
- Multi-cable options
- Short loop design standard
- Long loop design for multi-cable
- Unbalanced load
- 100 to 200 lbs. depending on cable diameter

FEATURES AND MATERIALS

- HIGH Strength Stainless Steel
- Relieved Rod ends – safe against cable jacket
- Elastomer Coating for soft pliable interface

ORDERING INSTRUCTIONS

Select the appropriate FIBERLIGN Tangent Support based on the cable diameter. Contact PLP technical support for sizes not listed.

FIBERLIGN® Tangent Supports for Figure 8 Cable

Catalog Number	Cable Information Cable Range (mm)		Color Code	Overall Length inches (mm)
	Dimension LxW inches (mm)	Mfg.		
6126009	.300 x .170 (7.6 x 4.3)	Pirelli	Blue	23 (584)
6126015	.380 x .160 (9.6 x 4.1)	Corning	Red	27 (686)

PREFORMED LINE PRODUCTS

Section 9 – Fiber Optics:
COYOTE® Closures & Splice Cases for OPGW & ADSS

Table of Contents **Page**

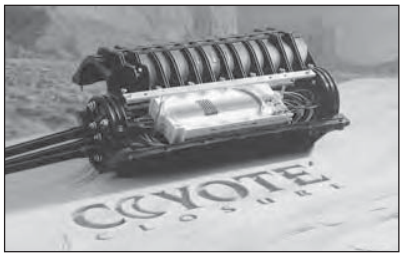
COYOTE® Closures for OPGW or ADSS

The COYOTE Closure Family features durable high-density thermoplastic shells that weigh less than their stainless steel counterparts. For loose tube buffer type fiber, the 6.5" x 22.0" COYOTE Closure handles up to 144 splices and the 8.5" x 22.0" COYOTE Closure handles up to 288 splices. The smaller 6.0" x 17.0" COYOTE PUP Closure can manage up to 48 fiber splices. The compact COYOTE RUNT Closure can manage up to 24 fiber splices.

The COYOTE PUP Closure allows future expansion or "growth" into a COYOTE Closure with minimal cost or disruption to the existing fibers.

Features of the COYOTE Closure and COYOTE PUP Closure:

- For either dielectric or OPGW cables.
- High strength, low weight, low cost, non-metallic shells.
- Permanent neoprene gasket and LOCK-TAPE™ Sealing System allows re-entry without re-entry kits/supplies.
- Roomy buffer tube storage system and fiber management trays allowing large bend radii.
- Fiber management system for loose tube buffer (see table). Other versions are readily available (see Section 1).
- End Plate System for butt splicing:
  - one Blank End Plate at one end
  - one Three-Section End Plate with six premolded cable entry ports; four ports for up to 7/8" OD dielectric cables (.785" max. OPGW OD) and two ports for up to 3/4" OD dielectric cables (.660" max. OPGW OD). Drilling not required.
- Optional Three-Section Four Port End Plate is available for cables up to 1-1/4" (See next page).
- Optional Future Cable Port Kits allow for adding cables in the future without disassembling the End Plate. Kits must be ordered and installed during initial assembly.
  - Future cable port for 7/8" ports will accept cables up to .56"
  - Future cable port for 1" ports will accept cables up to .81"
  - Future cable port for 1-1/4" ports will accept cables up to 1"
- When adding future OPGW cables, order additional OPGW Strain Relief Bracket Kits.
- Closures are available that can accommodate other types of fiber optic cable.
- OPGW Strain Relief Bracket Kit provides brackets, clamps and moisture sealing tape required for installing two OPGW cables in End Plate.
- Splice Case Kits are available for OPGW with stainless steel loose-tube fiber bundles,consult factory for details.

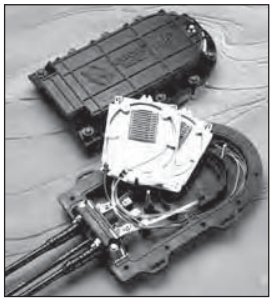


COYOTE Closure

- Two size closures available:
  - 6.5" x 22.0" (152 mm x 559 mm), accommodates up to 4 splice trays (up to 144 splices/closure)
  - 8.5" x 22.0" (216 mm x 559 mm), accommodates up to 8 splice trays (up to 288 splices/closure)
- Both size closures have 36 count splice trays with three 12-count elastomeric splice blocks to retain mechanical splices or protected fusion splices.

COYOTE PUP Closure

- One small size, 6.0" x 17.0" (152 mm x 432 mm).
- Twelve-count fiber splice tray with elastomeric splice block to retain mechanical splices or protected fusion splices.
- Forty-eight fiber splice capacity.



COYOTE RUNT Closure

- One compact size, 8.5" W x 3" H x 14.75" L (216 mm W x 76 mm H x 375 mm L)
- Twelve-count fiber splice tray with elastomeric splice block to retain mechanical splices or protected fusion splices.
- Twenty-four fiber splice capacity.

COYOTE® Closures for OPGW or ADSS

To order, determine:
1. Number of fibers required now and in the future.
2. Cable size and type.
3. Structure type for mounting method.
4. Select catalog number from tables for appropriate items.

COYOTE Closures and Splice Tray Kits	
Catalog Number	**Description (mm)**
COYOTE00058	6.5" x 22.0" (152 x 559) COYOTE Closure Kit for OPGW. Includes closure with organizer/storage compartment (Cat. No. 8006560); OPGW Strain Relief Bracket Kit (Cat. No. 8003296); all required supplies; plus one 36-count tray (Cat. No. 80805514). Will accommodate up to 4 trays per closure (144 maximum splice capacity).
COYOTE00059	8.5" x 22.0" (216 x 559) COYOTE Closure Kit for OPGW. Includes closure with organizer/storage compartment (Cat. No. 8006561); OPGW Strain Relief Bracket Kit (Cat. No. 8003296); all required supplies; plus one 36-count tray (Cat. No. 80805514). Will accommodate up to 8 trays per closure (288 maximum splice capacity).
COYOTE00060	6.5" x 22.0" (152 x 559) COYOTE Closure Kit for dielectric cables. Includes closure with organizer/storage compartment (Cat. No. 8006560); all required supplies plus one 36-count tray (Cat. No. 80805514). Will accommodate up to 4 trays per closure (144 maximum splice capacity).
COYOTE00061	8.5" x 22.0" (216 x 559) COYOTE Closure Kit for dielectric cables. Includes closure with organizer/storage compartment (Cat. No. 8006561); all required supplies plus one 36-count tray (Cat. No. 80805514). Will accommodate up to 8 trays per closure (288 maximum splice capacity).
80805514	36-Count Splice Tray with Elastomer Splice Blocks for COYOTE Closure
80805110	36-Count Splice Tray with fixed
8001127	36-Count Low Profile Splice Tray

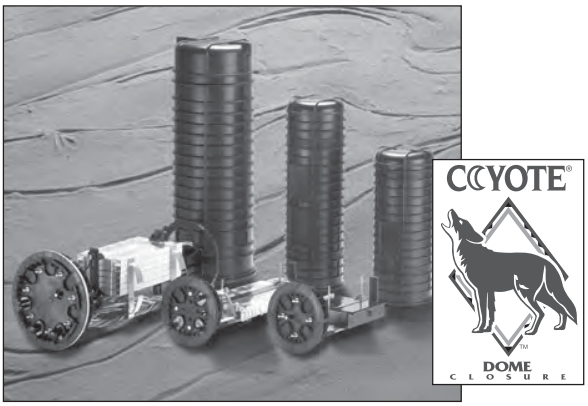
COYOTE PUP Closure Kits	
Catalog Number	**Description (mm)**
8006652	6.0" x 17.0" (152 x 432) COYOTE PUP Closure for OPGW. Includes OPGW Strain Relief Kit (Cat. No. 8003296) and one 12-count Splice Tray (Cat. No. 80806033)
8006653	6.0" x 17.0" (152 x 432) COYOTE PUP Closure for ADSS/Buried Cables. Includes one 12-count Splice Tray (Cat. No. 80806033)
80806033	Twelve-count Splice Tray for COYOTE PUP Closure
80807701	Twelve-count Low Profile Splice Tray

COYOTE RUNT Closure Kit	
Catalog Number	**Description**
8006695	COYOTE RUNT Closure for OPGW, includes OPGW Strain Relief Kit (Cat. No. 8003479) and one 12-count Splice Tray (Cat. No. 80806033)

COYOTE Closures and COYOTE PUP Closure Accessories	
Catalog Number	**Description (mm)**
80805739	Three-Section Four Port End Plate Kit
8003289	Future Cable Port/Cable Installation Kit for 7/8" cable ports(0.56" (14) max. cable). Kit includes Future Cable Port (Cat. No. 8003371) and Future Cable Preparation Kit (Cat. No. 8003291) which can be ordered separately.
8003408	Future Cable Port/Cable Installation Kit for 1" cable ports(0.81" (21) max. cable). Kit includes Future Cable Port (Cat. No. 8003407) and Future Cable Preparation Kit (Cat. No. 8003291) which can be ordered separately.
8003410	Future Cable Port/Cable Installation Kit for 1-1/4" cable ports(1.0" (25) max. cable). Kit includes Future Cable Port (Cat. No. 8003409) and Future Cable Preparation Kit (Cat. No. 8003291) which can be ordered separately.
8003092	FIBERLIGN Fusion Splice Protectors. Non-heat shrink protector closes over splice and fits snugly into elastomer splice blocks in Splice Tray (Cat. No. 80805514) Package of 20
Mounting Hardware Kits	
8003372	Vertical Pole/Structure Mounting Bracket Kit for COYOTE Closure and COYOTE PUP Closure
8003398	Adaptor Bracket for Hughes Brothers Bullet Shield. Bracket mounts to grounding studs on COYOTE Closure End Plate and fastener holes in the Hughes Brothers hanger provided with the Bullet Shield. Fits COYOTE Closure and COYOTE PUP Closure
8003296	OPGW Strain Relief Bracket Kit

COYOTE® Dome Closure for ADSS

Evolution of the Breed Continues…



The COYOTE Dome Closure Family has increased in size! The new 9.5" x 28" High Capacity Dome Closure is available in three different configurations and can also be used with 9.5" ARMADILLO® Stainless shells, further expanding the possibilities to address your network needs. The innovative, segmented end plate design in the new 9.5" diameter offers 7 cable entrance ports capable of accepting cables with a maximum diameter of 1.25" (32 mm). The unique design allows each cable entrance to be accessed without disruption to the surrounding cables. The new end plate accepts the full line of multi-hole grommets designed to ensure the ultimate flexibility and high capacity to meet the demands of ever evolving communication networks.

The COYOTE Dome Closure was built from the ground up using the same craft-friendly fiber management technology that placed the COYOTE family among the most respected and reliable in the industry. Re-entry is quick and requires no special tools or re-entry kits. Both the 6.5" and 9.5" designs are also convertible to closure shells for in-line applications or to provide additional drop capacity. For connectivity solutions, the COYOTE Dome closures are also available in cross-connect configurations. By combining these features with a wide offering of splice trays and accessories, PLP has the ability to address virtually any network design.

The COYOTE Dome Closure is tested in accordance with the demanding requirements of the Telcordia GR-771-CORE specification for all aerial, buried and underground environments. Manufactured in accordance with ISO9001:2008 procedures to assure quality and backed by the experience and field support that PLP has been noted for since 1947.

Key Features:

- Available Sizes: 6.5" x 17" (17cm x 43cm), 6.5" x 22" (17cm x 56cm), 9.5" x 28" (24cm x 71 cm)
- Patented segmented End Plate design provides independent access to every cable
- 6.5" End Plate: 4 entry ports accepting max cable diameter of 1¼" (32mm)
- 9.5" End Plate: 7 entry ports accepting max cable diameter of 1¼" (32mm)
- Fiber Organizers and End Plates come fully assembled – minimizing the parts to handle
- Simple to use multi hole and single hole grommets provide the ability to support high drop capacities
- No special tools or torque wrenches required for installation
- Collar system allows for quick re-entry
- Tested in accordance to Telcordia GR-771 CORE
- RUS listed for all applications. Contact PLP for further details
- Accepts a wide variety of PLP splice trays
- Patented End Plate Design

COYOTE Dome Closure

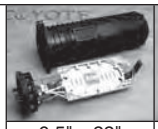
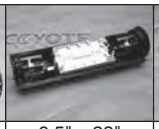
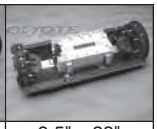
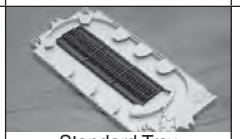
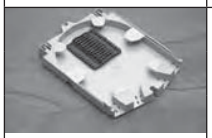
Catalog Number	Description
	Closure Kits
8006944	6.5" x 17" COYOTE Dome for Buffer Tube (loose tube)
8006945	6.5" x 17" COYOTE Dome for Unitube
8006988	6.5" x 17" COYOTE Dome Express
8006949	6.5" x 17" COYOTE Dome Cross-Connect Express
8006877	6.5" x 22" COYOTE Dome for Buffer Tube (loose tube)
8006878	6.5" x 22" COYOTE Dome for Unitube
8006946	6.5" x 22" COYOTE Dome Express*
8006941	6.5" x 22" COYOTE Dome Cross-Connect Express
8006879	6.5" x 28" COYOTE Inline Dome for Buffer Tube (loose tube)
8006880	6.5" x 28" COYOTE Inline Dome for Unitube
80061055	9.5" x 28" COYOTE Dome for Buffer Tube (loose tube)
80061056	9.5" x 28" COYOTE Dome for Unitube (Ribbon)
80061057	9.5" x 28" COYOTE Dome for High Capacity (max tray count)

COYOTE Dome Accessories

Catalog Number	Description
	Mounting Hardware Kits
710012168	Aerial Hanger Bracket – Dome Mount (Delrin Strap)
8003833	Aerial Hanger Bracket – Dome only, 6.5 only
8003707	Swing Arm for Hand Holes
800012160	Pole/Wall Mount Bracket w/2 Lattice Tower Adapter
8003797	Aerial Drop Hanger Bracket
	Accessory Kits
	Grommet Kits – see grommet chart on page 25-10
8003681	End Plate Kit
80807383	Hardware bag for End Plate
80807848	End Plate Gasket for 6.5" Dome

*50% more storage space for midsheath (express) applications, but 50% less splice capacity

COYOTE® Dome Splice Trays for ADSS & OPGW

Short Splice Trays for the 17" Dome	 6.5" x 17" COYOTE Dome	Long Splice Trays for 22", 28" Dome and In-Line Closures	 6.5" x 22" COYOTE Dome	 9.5" x 28" COYOTE Dome	 6.5" x 28" COYOTE In-Line Dome	 9.5" x 28" COYOTE In-Line Dome
 Low Profile Tray (12 splice count) Cat. # 80807701 (w/splice blocks) or #8001130 (blank)	6 Trays 72 Max Splice Count	 Low Profile Tray (36 splice count) Cat # 8001127 (w/plastic splice blocks) or 80807769 (blank)	6 Trays 216 Max Splice Count	PN: 80061055 12 Trays – 432 Max PN: 80061056 12 Trays – 432 Max PN: 80061057 18 Trays – 648 Max	6 Trays 216 Max Splice Count	18 Trays 648 Max Splice Count
 Standard Tray (12 splice count) Cat # 80806033 (w/splice block) or 80806182 (blank)	4 Trays 48 Max Splice Count	 Standard Tray (36 Splice count) Cat # 80805514 (w/elastomer splice block), 80805110 (w/rigid slots), or 80805509 (blank)	4 Trays 144 Max Splice Count	PN: 80061055 9 Trays – 324 Max PN: 80061056 9 Trays – 324 Max PN: 80061057 14 Trays – 504 Max	4 Trays 144 Max Splice Count	16 Trays 540 Max Splice Count
 Ribbon Tray (72 splice count) Cat # 80807114 (w/splice block) or 80808160 (blank)	3 Trays 216 Max Splice Count	 Ribbon Tray (144 splice count) Cat # 80805515 (w/elastomer splice blocks), 80805146 (w/rigid slots), or 80805510 (blank)	3 Trays 432 Max Splice Count	PN: 80061055 6 Trays – 864 Max PN: 80061056 6 Trays – 864 Max PN: 80061057 9 Trays – 1296 Max	3 Trays 432 Max Splice Count	6 Trays 864 Max Splice Count
 LITE-GRIP® Short Tray[1] (40 splice count) Cat # LGSTS16 (single fusion)	3 Tray 120 Max Splice Count[1]	 LITE-GRIP® Long Tray[2] (80 splice count) Cat # LGSTS40 (single fusion)	3 Trays 240 Max Splice Count[2]	PN: 80061055 6 Trays – 480 Max[2] PN: 80061056 6 Trays – 480 Max[2] PN: 80061057 9 Trays – 720 Max[2]	3 Trays 240 Max Splice Count[2]	9 Trays 720 Max Splice Count[2]
 LITE-GRIP Short Tray (144 splice count) Cat # LGSTR144 (mass fusion ribbon)	3 Tray 432 Max Splice Count	 LITE-GRIP Long Tray (216 splice count) Cat # LGSTR216 (mass fusion ribbon)	3 Trays 648 Max Splice Count	PN: 80061055 6 Trays – 1296 Max PN: 80061056 6 Trays – 1296 Max PN: 80061057 9 Trays – 1944 Max	3 Trays 648 Max Splice Count	6 Trays 1,296 Max Splice Count

1 Each tray (Cat #LGSTS16) is provided with splice blocks to support 16 single fusion splices. Splice Block Kit (Cat #LGSBS 8-5) is required for each tray to achieve maximum splice count.

2 Each tray (Cat. #LGSTS40) is provided with splice blocks to support 40 single fusion splices. Splice Block Kit (Cat #LGSBS8-5) is required for each tray to achieve maximum splice count.

COYOTE® Dome Closure for OPGW

Not only can the COYOTE® Dome accommodate ADSS cable, but can also accommodate various types of OPGW cable. Such types of OPGW that can be used in the COYOTE® DOME include:

- OPGW with stranded stainless steel (ridged) buffer tubes.
- OPGW with a slotted core and flexible plastic buffer tubes.
- OPGW with a central aluminum tube and flexible plastic buffer tubes.
- OPGW with a central aluminum tube and central stainless steel or hard plastic (ridged) buffer tubes.
- OPGW with a central aluminum tube but without central stainless steel or hard plastic (ridged) buffer tubes.

Selecting the proper COYOTE® Dome kit for your OPGW application depends on the fiber count, cable diameter, and the fiber package construction of the OPGW that you are using. The selection guide below can be used to determine which COYOTE® Dome kit for OPGW will best suit your needs.

COYOTE® Dome Closure Selection Guide for OPGW Cable Types

OPGW Cable Information				COYOTE® DOME Closure Kits for OPGW Applications						
	Max Single Fusion Splices				Kit Catalog Number					
OPGW Description	Using COYOTE® Standard Tray	Using COYOTE® Low Profile Tray	OPGW Max diameter* Inches (mm)	Size Inches (mm)	Closure w/ Standard Tray Kit**	Closure w/Low Profile Tray Kit**	Endplate	Trays Included with Kit	Fiber Count per tray	Organizer Type	Transition/ Furcation ***
Stranded Stainless Steel (Ridged) Buffer Tube	48	72	1.25" (31.8)	6.5" X 17" (165 X 432)	800012147	800012148	Segmented 4 Port *	1	12	Unitube	Yes
	144	216	1.25" (31.8)	6.5" X 22" (165 X 559)	800012149	800012150	Segmented 4 Port *	1	36	Unitube	Yes
Slotted Core with Flexible Plastic Buffer Tube	48	72	1.25" (31.8)	6.5" X 17" (165 X 432)	800012143	800012144	Segmented 4 Port *	1	12	Loose Tube Buffer Tube	No
	144	216	1.25" (31.8)	6.5" X 22" (165 X 559)	800012145	800012146	Segmented 4 Port *	1	36	Loose Tube Buffer Tube	No
Central Aluminum Tube with Flexible Plastic Buffer Tubes	48	72	1.25" (31.8)	6.5' X 17" (165 X 432)	800012143	800012144	Segmented 4 Port *	1	12	Loose Tube Buffer Tube	No
	144	216	1.25" (31.8)	6.5' X 22" (165 X 559)	800012145	800012146	Segmented 4 Port *	1	36	Loose Tube Buffer Tube	No
Central Aluminum Tube with or w/o Stainless Steel/Hard Plastic (Ridged) Buffer Tubes	48	72	1.25" (31.8)	6.5" X 17" (165 X 432)	800012147	800012148	Segmented 4 Port *	1	12	Unitube	Yes
	144	216	1.25" (31.8)	6.5" X 22" (165 X 559)	800012149	800012150	Segmented 4 Port *	1	36	Unitube	Yes

*All Closures are provided with (2) 8003664 grommets and (2) 8003701 grommet kits for OPGW cable diameters .30" to .85" (8 mm - 22 mm). Optional grommets found in the grommet selection guide on the previous page can expand the number of cable entries per port and accommodate various sizes.

**Along with one tray, all closures kits include OPGW Sealant Kit #8003754 and Heat Shrink Splice Protectors.

***Closures with Unitube Organizers include Transition Furcation Kits 800011212 and 800011381 for Stainless Steel/Hard Plastic (Ridged) Buffer Tube Applications. See the Transition Furcation Kit Application Guide below for Transition Furcation kit sizes.

Transition Furcation Kit Application Guide for Stainless Steel/Hard Plastic (Ridged) Buffer Tube Sizes

Catalog Number	Description	Closure Type	
		6.5" X 17"	6.5" X 22"
800011212	Furcation Kit for Buffer Tubes OD range .133" - .154"	X	X
800011381	Furcation Kit for Buffer Tubes OD range .118" - .126'	X	X
800011563	Furcation Kit for Buffer Tubes OD range .102" - .110"	X	X

NOTE: Contact PLP or refer to SP2963 for further information about Transition Furcation Kit Applications

Key Features:

- Available sizes: 6.5" x 17" (16.5 cm x 43 cm) and 6.5" x 22" (16.5 cm x 55.8 cm)
- OPGW Strain Relief Bracket Kit (Cat. # 8003754) provides end plate studs, brackets, clamps, and flat sealant required for installing two OPGW cables in the end plate
- When adding future OPGW cables, order additional Strain Relief Bracket Kits
- Transition Furcation Kits for OPGW with stainless steel or hard plastic (ridged) buffer tubes (see table above)
- Additional grommets may be ordered for OPGW applications using the grommet kit selection guide (see page 9-7)
- Splice Tray included in COYOTE® Dome Kit:
  - One 12 count Low Profile or Standard Tray for 6.5" x 17" COYOTE® Dome
  - One 36 count Low Profile or Standard Tray for 6.5" x 22" COYOTE® Dome
- Additional splice trays may be ordered. See chart on page 1-4, 1-5.

COYOTE® Grommet Selection Guide

PLP Feature Focus
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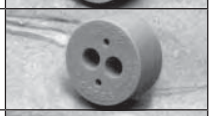
COYOTE® Silicone Grommet Kits for use in COYOTE ONE, GLC, LCC, Aerial Drop, In-Line RUNT, Terminal, Dome, and Taut Closures			
Catalog Number	**Cable Range Inches (mm)**	**Description**	**Grommets**
8003701*	.42 - .60 (10.7 - 15.2) .60 - .85 (15.2 - 21.6)	2-hole grommet	
8003691	.40 - .60 (10.7 - 15.2)	1-hole grommet	
8003692	.60 - .85 (15.2 - 21.6)	1-hole grommet	
8003693	.85 - 1.0 (21.6 - 25.4)	1-hole grommet	
8003694	1.0 - 1.25 (25.4 - 31.6)	1-hole grommet	
8003663	.42 - .60 (10.7 - 15.2)	2-hole grommet	
8003990	.50 - .60 (12.7 - 15.2) .125 - .25 (3.2 - 6.4) and Flat Drop	4-hole grommet	
8003664	.30 - .43 (7.6 - 10.9)	4-hole grommet	
8003989	Flat Drop Only	4-hole grommet	
8003665	.125 - .25 (3.2 - 6.4) and Flat Drop	6-hole grommet	
8003676	.42 - .60 (10.7 - 15.2) .125 - .25 (3.2 - 6.4) and Flat Drop	7-hole grommet	
8003677	.125 - .25 (3.3 - 6.4) and Flat Drop	8-hole grommet	
8003796	Flat Drop Only	12-hole grommet	

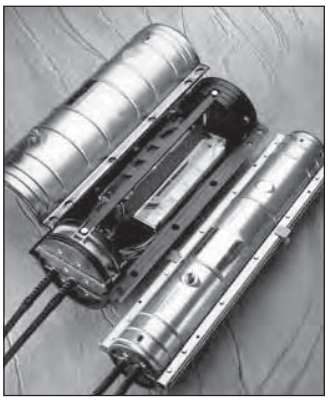
Note: Grommet Kit contains (1) Grommet, (1) Cable Measure Tape, (2) Silicone Lubricant Packs, (1) Set of Plugs (where applicable)

*8003701 is not recommended for 9.5" Dome and GLC Closures

COYOTE® Splice Case for OPGW & ADSS

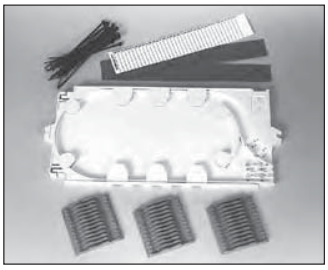
The enhanced COYOTE Splice Case with stainless steel shells now features the convenient COYOTE Fiber Management System found in the COYOTE Closure. The COYOTE Splice Case maintains the same air and watertight seal of our FIBERLIGN Stainless Steel Splice Case, but at less cost. For further information about the FIBERLIGN Stainless Steel Splice Case check with our customer service department. Key features of the COYOTE Splice Case include:

- For either ADSS or OPGW
- Impact and corrosion resistant stainless steel shells.
- LOCKBAR™ Sealing System allows re-entry without re-entry kits/supplies.
- High cable pull-out strength with LOCK-TAPE™ Sealant System.
- Fiber management system for loose tube buffer offered below. Other versions are readily available.
- 6.5" x 28" standard size (other sizes available for up to 648 splices).
- End Plate system available with blank End Plate at one end and one of the following:
  - One blank End Plate, or
  - One Three-section End Plate, field-drilled for any size/configuration.
- Standard size Splice Case accommodates up to four 36-count Splice Trays (144 max. splice capacity).
- Blank Splice Trays with three adhesive backed 12-count Elastomeric Splice Blocks (max. 36 fiber splices per tray).
- Elastomeric Splice Blocks firmly hold mechanical or protected fusion splices.
- Standard Splice Case can accommodate other types of fiber optic cables.
- Splice Case kits are available for OPGW with stainless steel loose-tube fiber bundles. Consult PLP for details.

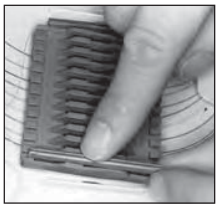


COYOTE Splice Case

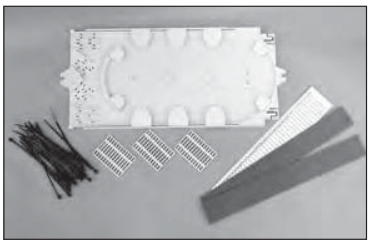
Vertical Mounting Bracket 8003472



Splice Tray



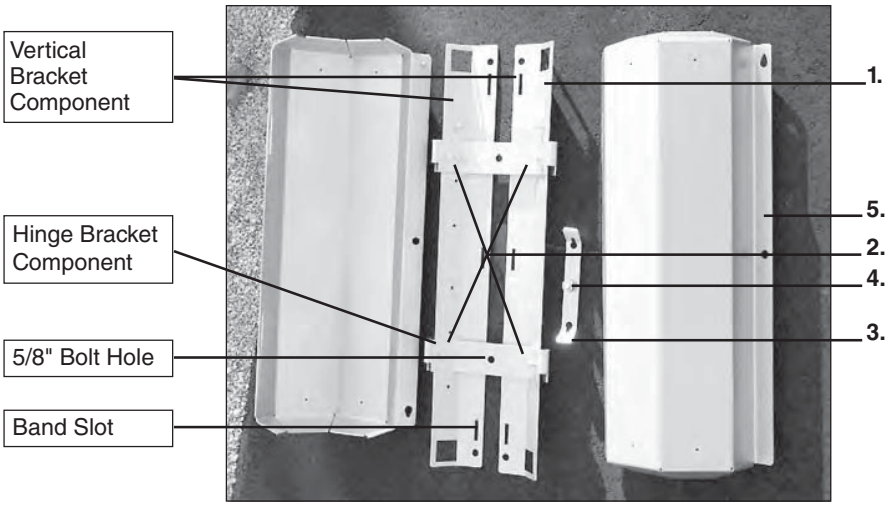
Fusion Splice Protector



Low Profile COYOTE Splice Tray

COYOTE Splice Case Kits for OPGW and ADSS	
Catalog Number	**Description (mm)**
8006654	6.5"x 28" (165 x 711) COYOTE Splice Case for ADSS or OPGW.* Includes Splice Case Kit, Green Sealant Kit (Cat. No. 8003411), one 36-count Splice Tray (Cat. No. 80805514), one blank End Plate and one Three-Section End Plate (field drilled for specific cable configurations and ODs) and L-Brackets for strength member tie-off.
8003092	Fusion Splice Protector. Hinged plastic protector closes onto fusion splice area. The protector fits snugly into elastomer splice blocks (Cat. No. 80805514). Twenty (20) units per package.
80804986	Three-Section End Plate Kit for 6.5” (165) COYOTE Splice Cases. Field drilling required.
8003421	3/4" (19) Field-Installed Future Port/Cable Installation Kit [0.80" (20) max. cable]. Kit includes Future Cable Port (Cat. No. 8003412) and Future Cable Preparation Kit (Cat No. 8003420) which can be ordered separately.
8003422	1.0" (25) Field-Installed Future Port/Cable Installation Kit [1.0" (25) max. cable]. Kit includes Future Cable Port (Cat. No. 8003413) and Future Cable Preparation Kit (Cat No. 8003420) which can be ordered separately.
* Catalog No. 8006654 is suitable for OPGW cable with plastic loose tube buffer tubes that can be brought into the 36 count splice trays. Other metallic non-flexible buffer tubes may require a transition compartment. Contact PLP for more information.	
Mounting Hardware Kits	
8003472	Vertical Mounting Bracket for 6.5", 8" and 9.5" (165, 203, and 241) COYOTE Splice Cases. Includes two brackets and associated hardware (curved or flat surfaces).

COYOTE® Defender



Nomenclature:

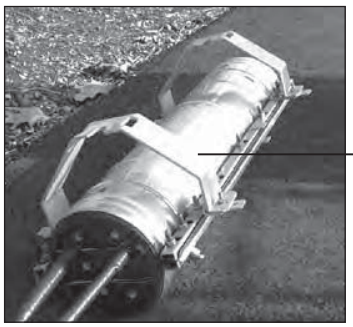
1. Mounting Frame
2. Hex Head Self Tapping Screws, 5/16"x1" Long
3. Adjustable Horizontal Bracket
4. Hex Head Bolt, 5/8"-11x1.5" Long
5. Door
6. Vertical Mounting Bracket for Splice Cases
7. Adapter Bracket for COYOTE Closures

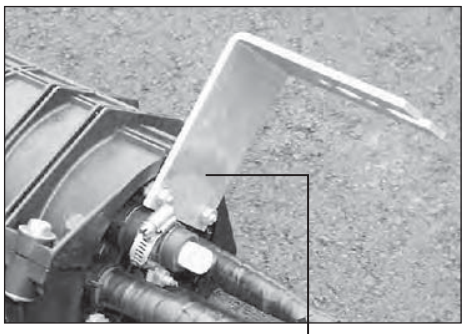
GENERAL INFORMATION

The COYOTE Defender provides added protection for (a) COYOTE Splice Case sizes 6.5", 8", and 9.5" up to 28" long and (b) COYOTE Closure sizes 6.0" and 8.5" – all lengths. The Mounting Frame comes assembled from the factory – Hinge Brackets and Vertical Bracket components are fastened with 5/16"x1" long self tapping screws. The Hinge Brackets are positioned 19" apart to mount the 28" long COYOTE Splice Cases. All other Splice Cases and Closures are accommodated with the Adjustable Horizontal Bracket. Two large doors and the mounting frame surround the closure or splice case and allow easy access for future maintenance or expansion. The frame can be installed first, followed by each door (door weight 38# each) thus reducing the chore of lifting a bulky steel unit – this makes the Lineman's task manageable and less hazardous.

Mounting Options:

The COYOTE Defender can be mounted with thru bolts, DA bolts, or banding. The frame will accept standard 5/8" thru bolts and DA bolts. Use the mounting frame as a template to locate positions for drill through on wood pole structures. Double Arming bolts must not extend 1.5" beyond the Hinge Bracket surface to avoid splice case interference. Banding slots are provided in 6 positions along the frame. The band slots will accept up to 1.5" wide banding. For banding applications, 5/8" x 1.5" bolts are used to provide attachment to the mounting frame.





ORDERING INSTRUCTIONS

Two catalog numbers are available, one for COYOTE Splice Case applications, and the other for the COYOTE Closure applications. The Defender kit for the COYOTE SPLICE CASE (#8003491) includes a Vertical mounting bracket kit to hang the case onto the mounting frame of the Defender. Likewise, the Defender kit for the COYOTE Closure (#8003492) includes an adapter bracket kit to hang the closure onto the mounting frame of the Defender.

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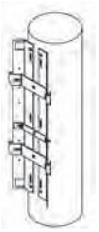
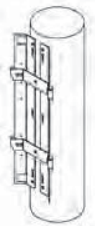
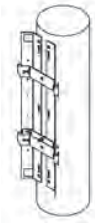
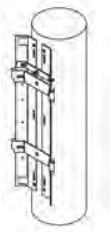
The Adjustable Horizontal Bracket is not required for the 28" long Splice Cases. However this bracket can be positioned on the mounting frame to adapt the other sizes – these positions are listed in the FRAME CONFIGURATION column of the following table.

COYOTE Defender Catalog Numbers and Frame Configuration

Catalog Number	Application		Frame Configuration
	Type	Size (mm)	
8003491	COYOTE Splice Case	6.5" X 22" (165 X 559)	
8003491		6.5" X 28", 8" X 28", 9.5" X 28" (165 X 711, 203 X 711, 241 X 711)	
8003492	COYOTE Closure	6" X 17" COYOTE PUP (152 X 432)	
8003492		6" X 22", 8.5" X 22" (152 X 559, 216 X 559)	
800012162	COYOTE Dome Closure	6.5" X 17", 6.5" X 22"	N/A
800011916	COYOTE RUNT Closure	8.5" X 14.75"	N/A

Accessories:
Vertical Cable Storage Assemblies:
1) Double Arm configuration: order 1 each Catalog Number 8003569
2) Triple Spool/Single Arm: order 1 each Catalog Number 8003493 and 1 each Catalog Number 8003503
3) Banded Triple Spool/Single Arm: order 1 Catalog Number 8003493 and 1 each Catalog Number 8003503b1
Note: The COYOTE Defender Frame accepts the standard cross arm of vertical cable storage assemblies, 5/16"x1" self tapping screws lock arms into place.

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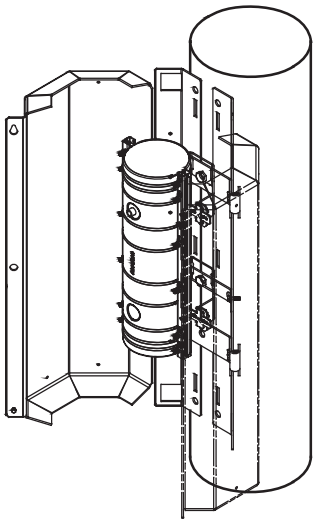
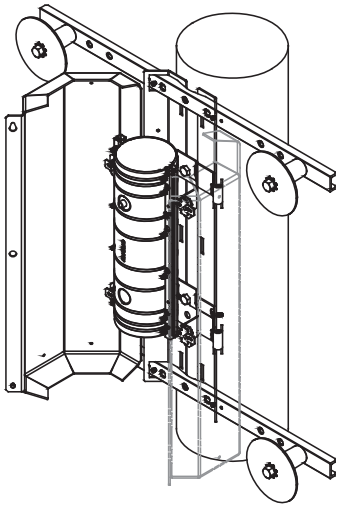
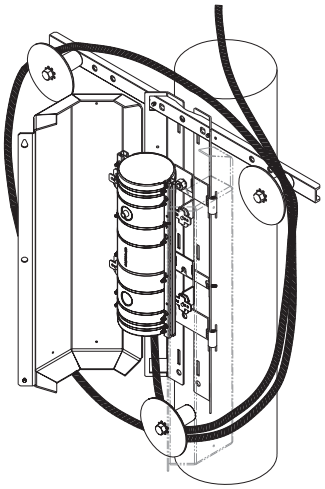
ACCESSORIES

Vertical Cable Storage Assemblies found earlier in this section can be used with the COYOTE Defender. Large rectangular slots at the top and bottom of the mounting frame accept the Cable Storage Cross Arm.

COYOTE Defender with and Without Vertical Cable Storage Accessories

		
Basic Kit*	**Kit With Double Arm Storage Assembly***	**Kit With One Cable Storage Assembly and One Spool***

***Splice Case not included**