



AERIAL & UNDERGROUND

EQUIPMENT & TOOLS CATALOG

AERIAL TOOLS 

FISHING & RODDING 

SWIVELS & ACCESSORIES 

PULLING EYES & ACCESSORIES 

POWER CABLE INSTALLATION 

FIBER CABLE INSTALLATION 

OTHER PRODUCTS 



SAFETY ▪ RELIABILITY ▪ PRODUCTIVITY

providing labor-saving **solutions & support**

Good businesses know the importance of productivity and efficiency. That's why we take pride in working directly with the industries we serve to offer tools that are engineered to reduce installation time and increase safety. Condux has the specialized tools to help you do the job right, and do it safely.

Reliable Customer Service

Every tool we sell is backed by our commitment to reliable Customer Service through our international network of knowledgeable representatives and our international Customer Service personnel. You will receive the most reliable customer support available anywhere.

Product Training Seminars

A product is most effective with the proper knowledge and training behind it. That's why Condux offers in-depth product information and hands-on product training. Our outdoor facility has precast manholes, four conduit runs, power poles at the perimeter, handholes, and transformer boxes for realistic training. Participants work in both classroom and hands-on settings, with involvement in a variety of product installations over a two-day period.



To our knowledge, all products and other information in this catalog are accurate at the time of printing. Condux International, Inc. reserves the right to change products and other information without prior notice.

Tools shown in this catalog are designed for their intended use only by trained craftspeople. Before using any Condux tool, make certain you have read and understand any safety, operating, and maintenance instructions for that tool. Call or write for any additional product information required for operation.

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what's new

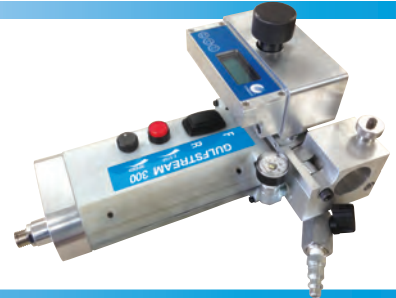


APS75 Cable Puller94

The APS75 Hydraulic Underground Cable Puller now features hydraulically powered jack stands that are easy to use and speed set up and tear down times. Plus, a new Aluminum A-Frame is available. The A-Frame extension adjusts quickly to difficult pulling situations.

Gulfstream™ 300 Micro Fiber Blower 128

The Gulfstream 300 is an effective and economical approach to middle mile fiber installations. Able to install fiber optic cable ranging in size from 3 mm to 10 mm into duct from 7 mm to 18 mm, the Gulfstream 300 offers the portability, convenience and power for standard middle projects in a cost effective package.



Gulfstream™ 200 Micro Fiber Blower 130

The Gulfstream 200 micro fiber blower is designed for the FTTx and Enterprise micro fiber cable installation projects. The self-contained Gulfstream 200 combines the push force of a small electric motor driven belt drive with compressed air to quickly and easily install micro fiber cables from 0.8 mm to 5.5 mm in diameter in micro duct ranging in size from 5 mm to 12.7 mm, at speeds up to 165 feet per minute!

TurboSlitter™ 153

The TurboSlitter™ from Condux can easily split HDPE pipe with wall thicknesses ranging from 0.097 to 0.216 inches! Available in two styles, pneumatic and cordless drill attachment. The cordless drill attachment quickly adjusts to fit almost any rechargeable drill, 14-volt and larger. Save time and effort on the job with the TurboSlitter from Condux.



Penta Buster® 159

The Penta Buster is designed to safely expel dirt and debris from the area around fasteners of ground-level electrical service boxes. The one-piece tool is comprised of rigid retractable teeth that loosen debris fragments from around the nut. By retracting the teeth, a socket is exposed that can be used to easily remove the nut or bolt fastener.

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CONDUX

UNDERBRIDGE CONDUIT SUPPORT SYSTEMS

FYI

Additional information
available at:
www.condux.com.



Condux Underbridge Conduit Support Systems

Condux is the world's leading designer and manufacturer of conduit bridge hanger systems. Our expertise spans a complete range of bridge sizes and designs—from the famous Golden Gate bridge in San Francisco to Tampa Bay's spectacular Sunshine Skyway bridge to a large number of smaller bridges all across the world.

Through that **experience**, we can help you with any special design problems you may encounter, and do it in a timely and cost effective manner.

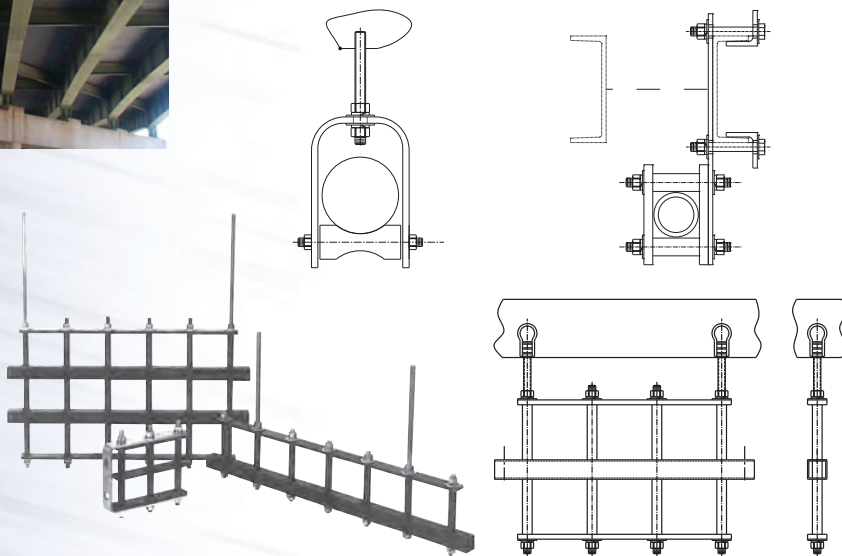
We specialize in **personalized service**, providing you with all of the information and technical assistance you need to get you through every step of your bridge hanger project. As a basic part of our service, when you place an order with us we will assist you with a materials list and a system design layout. We also feature computerized design and estimation for rapid turnaround.

Condux support hanger hardware is manufactured from stainless steel or hot rolled material that has a **hot dip galvanized** coating that meets D.O.T. specification requirements.

The **fiberglass cross members** are manufactured fiberglass reinforced plastic material that is one of the strongest and most durable materials in the world. When you combine these two materials you have one of the strongest and corrosion resistant conduit support hangers available on the market which is supplied by Condux International.

All types of **conduit** (fiberglass, PVC, or steel) are available from Condux, to provide a complete Underbridge Conduit System. No matter what stage of the project you're in, Condux can help you in the most cost effective manner.

The Condux Underbridge Conduit Support Systems & Bore Spacers **Catalog and Design Guide** will provide you with complete information on designing and ordering bridge hanger systems. It is available through our web site at www.condux.com or by contacting Condux Customer Service at 1-800-533-2077.



Condux Bore Spacers

Encasing underground conduit inside of steel pipe casings is quickly gaining popularity as a preferred method of underground installation. It offers the maximum amount of security for underground cable, effectively eliminating many of the problems that can occur with underground installation. This method is gaining recognition as "The Right Way" to install underground cable. One of the factors that make such an installation work is the proper design of the bore spacers that align and hold the conduit inside the pipe casing. Proper engineering of these bore spacers is critical to the reliability and longevity of the system.

Condux International is one of the largest producers of bore spacers in the United States. We have the experience and engineering expertise to assure the quality of your spacers. Condux Bore Spacers provide the following significant benefits:

Optimum Design—In many instances this spacer will allow the use of a smaller casing for the same number of conduits. The savings from the price of the casing and the installation could actually make the bore spacers "free".

Waterjet Technology—Utilizing computer aided design, the waterjet process is used to produce a cleaner, more accurate bore spacer for less cost and reduced manufacturing time.

Flexibility—Virtually any configuration of conduits and grout holes can be quickly manufactured.

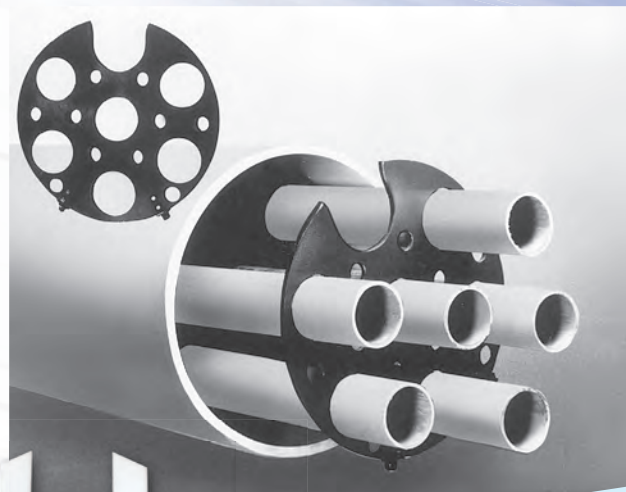
Rapid Turnaround—In most cases custom designed bore spacers are ready for shipment in 1 to 2 weeks.

Ease of Use—The bore spacers can be equipped with optional casters making the installation process smooth and easy.

The Condux Underbridge Conduit Support Systems & Bore Spacers **Catalog and Design Guide** will provide you with complete information on ordering bore spacers. Call the toll-free number listed at the bottom of this page to order your copy, or visit our web site at www.condux.com.

For immediate assistance, call Condux Customer Service at 1-800-533-2077 with the following information:

- Casing I.D.
- Conduit O.D.
- Number of conduits
- Length of run
- Number of grout holes required
- Diameter of grout holes
- Minimum separation between conduits
- Conduit and grout hole configuration, and if casters will be required
- Quantity required


FYI

Additional information
available at:
www.condux.com.



SINGLE ROLLER CABLE BLOCKS

Single Roller Cable Block

Support a single coaxial, fiber optic or copper cable or aerial innerduct up to 2.75" (70 mm) outside diameter with Condux Single Roller Cable Blocks. A built-in strand lock fits up to 3/8" (10 mm) strand to prevent creeping. The lock will be released when struck by a Cable Block Pusher ahead of a Cable Lasher. Frames are durable cast aluminum or molded plastic with steel inserts on strand contact surfaces. Rollers are plastic or aluminum.

Single Roller Cable Blocks may be equipped with a steel cable retainer to keep the cable or innerduct on the roller, even in low-tension situations.

Replacement rollers available. See page 14 for ordering information.

FYI

Prior to Ordering Always Know the Following:

- Cable Diameter & Strand Diameter
- Max Cable O.D. 2.75" (70 mm)
- Max Strand Dia. 3/8" (10 mm)

No poly-based rope is to be used on plastic rollers. If you are using poly rope, please order aluminum block rollers.

Part Number	Description	Roller/Cable Config.	Frame Material	Roller Material
18000600	Single roller cable block	1 @ 2.75" (70 mm)	plastic	plastic
18001200	Single roller cable block with cable retainer	1 @ 2.75" (70 mm)	plastic	plastic
18000660	Single roller cable block	1 @ 2.75" (70 mm)	aluminum	plastic
18001260	Single roller cable block with cable retainer	1 @ 2.75" (70 mm)	aluminum	plastic
18000670	Single roller cable block	1 @ 2.75" (70 mm)	aluminum	aluminum
18001270	Single roller cable block with cable retainer	1 @ 2.75" (70 mm)	aluminum	aluminum



Cable Block 18000600



Cable Block 18001200



Cable Block 18000660



Cable Block 18001260



Cable Block 18000670



Cable Block 18001270

Pole Mount Single Roller Cable Block

The Pole Mount Single Roller Cable Block is specially designed for easy mounting and free-rolling required in figure-eight cable construction. Quickly mounts to a 3-bolt strand clamp on a pole and allows pulling from pole to pole. Support a single coaxial, fiber optic or copper cable or aerial innerduct up to 2.75" (70 mm) outside diameter. Steel frame, with plastic or aluminum rollers.

Pole Mount Single Roller Cable Blocks may be equipped with a steel cable retainer to keep the cable or innerduct on the roller, even in low-tension situations.

Replacement rollers available. See page 14 for ordering information.



FYI

Prior to Ordering Always Know the Following:

- Cable Diameter
- Max Cable O.D. 2.75" (70 mm)
- Aluminum Sheave and Plastic Sheave Frames not interchangeable

No poly-based rope is to be used on plastic rollers. If you are using poly rope, please order aluminum block rollers.

Part Number	Description	Roller/Cable Config.	Frame Material	Roller Material
18000610	Single roller cable block	1 @ 2.75" (70 mm)	steel	plastic
18000620	Single roller cable block with cable retainer	1 @ 2.75" (70 mm)	steel	plastic
18000615	Single roller cable block	1 @ 2.75" (70 mm)	steel	aluminum
18000625	Single roller cable block with cable retainer	1 @ 2.75" (70 mm)	steel	aluminum



Cable Block 18000610



Cable Block 18000620



Cable Block 18000615



Cable Block 18000625



CONDUX

OVERLASH & ECONOMY CABLE BLOCKS



Overlash Cable Block
18001100

FYI

Prior to Ordering Always
Know the Following:

- Max Cable O.D.
1.25" (32 mm)
- Max. Strand O.D.
1/2" (13 mm)
- Max. Bundled O.D.
4" (102 mm)
- Sold Quantities
of 10 Only

No poly-based rope is to
be used on plastic rollers.
If you are using poly rope,
please order aluminum
block rollers.

Overlash Cable Block

Supports a single coaxial, fiber optic or copper cable up to 3.75" outside diameter. A built in Unidirectional strand lock fits up to 1/2" strand to prevent creeping during cable installation. Frame and roller are manufactured out of durable cast aluminum.

Cast Aluminum Frame:

- Can be placed on a 4-inch bundle or bare strand (1/4"-1/2")
- Unidirectional strand lock
- Dual retaining gate system

Cast Aluminum Roller:

- Will support a single cable up to and including 3.75 inches

Weight:

- 4.75 lbs

Cable Block Lifter for Overlash Cable Block:

- Part No. 18501244

Part Number	Description	Roller/Cable Config.	Frame Material	Roller Material
18001100	Block, Cable 1-3.75 W/Rt A1 & A1	1 @ 3.75" (95.3 mm)	aluminum	aluminum

Economy Cable Block

Condux offers economical Cable Blocks for support of one cable or innerduct up to 1.25" (32 mm) outside diameter. Integrated cable retaining system with spring-loaded arm. Frames are durable cast aluminum with steel inserts on strand contact surfaces, and can be used on strands up to 3/8" (10 mm) in diameter. Rollers are plastic or steel.

Replacement rollers available. See page 14 for ordering information.



FYI

Prior to Ordering Always
Know the Following:

- Max Cable O.D.
1.25" (32 mm)
- Max. Strand O.D.
3/8" (10 mm)
- Blocks Do Not Lock
on Strand

No poly-based rope is to
be used on plastic rollers.
If you are using poly rope,
please order aluminum
block rollers.

Part Number	Description	Roller/Cable Config.	Frame Material	Roller Material
18401060	Economy cable block, single	1 @ 1.25" (32 mm)	aluminum	plastic
18401080	Economy cable block, single	1 @ 1.25" (32 mm)	aluminum	steel



Cable Block 18401060



Cable Block 18401080

Overlash Cable Block

Fit Overlash Cable Blocks over an existing cable bundle up to 3" [76 mm] in diameter and support one 1.25" [32 mm] diameter cable or innerduct. Built-in cable retention system allows placement and removal from ground. Frames are durable cast aluminum with steel inserts on strand contact surfaces. Rollers are rubber or aluminum.

Replacement rollers available. See page 14 for ordering information.

Part Number	Description	Maximum Cable Diameter		Frame Material	Roller Material
		(in)	(mm)		
18403060	Overlash cable block with 1 single roller	1.25	32	aluminum	rubber
18401180	Overlash cable block with 1 double roller	1.25	32	aluminum	aluminum



Cable Block 18403060



Cable Block 18401180

FYI

Prior to Ordering Always Know the Following:

- Max Cable O.D. 1.25" [32 mm]
- Max. Bundled O.D. 2.75" [70 mm]
- Blocks Do Not Lock on Strand

No poly-based rope is to be used on plastic rollers. If you are using poly rope, please order aluminum block rollers.

Economy Overlash Cable Block

This alternative Cable Block may be placed over existing cable bundles up to 1.5" [38 mm] in diameter. Single rollers are available in plastic or steel and can accommodate cable or innerduct up to 1.00" [25 mm] diameter. Lightweight zinc-plated steel frame opens and closes for easy installation and ensures cable retention.

Replacement rollers available. See page 14 for ordering information.

Part Number	Description	Maximum Cable Diameter		Roller Material
		(in)	(mm)	
18151500	Economy overlash cable block	1.00	25	plastic
18151600	Economy overlash cable block	1.00	25	steel



Cable Block 18151500



Cable Block 18151600

FYI

Prior to Ordering Always Know the Following:

- Max Cable O.D. 1" [25 mm]
- Max. Bundled O.D. 1.5" [38 mm]
- Blocks Do Not Lock on Strand

No poly-based rope is to be used on plastic rollers. If you are using poly rope, please order aluminum block rollers.



CONDUX

SET-UP BRACKET / CABLE CHUTE CABLE BENDERS



Set-Up Bracket

A versatile tool that provides a mid-span mount for a 45 Degree Corner Block when a pole is not nearby. The Set-Up Bracket is secured to the strand with a strand clamp, safety clip, and tightening knob (all included). The strand attachment assembly swivels to ensure proper alignment with cable reel, allowing flexibility in cable reel and Set-Up Bracket positioning. Steel construction.

Part Number	Description
18100010	Set-up bracket



Cable Chute

Essentially a Set-Up Bracket with a chute built-in, it creates a path from cable reel to strand. Used in less demanding applications where the reel and strand are aligned, eliminating the need for a Set-Up Bracket and 45 Degree Corner Block. The Condux Cable Chute, is secured to the strand with a strand clamp, safety clip, and tightening knob (all included). The strand attachment assembly swivels to ensure proper alignment with cable reel. Chute surface is a friction-reducing high-impact synthetic. Accommodates cable up to 3.5" OD.

Part Number	Description
18105800	Cable chute with bracket



Standard Cable Benders

Standard Coaxial Cable Benders provide mechanical wrenching action to form expansion loops with a life of over 25 years. Four nylon shoes provide cable support and assure minimal stress during the bending process. Quality-built with a steel frame, hardened on rack and gear. Achieve consistent performance, and do no additional hand forming with Standard Cable Benders.

See last column for Replacement shoes for your Standard Cable Bender.

Part Number	Maximum Number of Cables	Maximum Cable Diameter		Loop Depth (D)		Loop Length (L)		Loop Radius (R)		Flat Bottom (B)		Replacement Shoe Part Number
		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
18108405	2	0.75	19	6	152	36	914	11	279	12	305	18504008
18108400	1	0.75	19	6	152	36	914	11	279	12	305	18504008
18108410	1	1.00	25	6	152	51	1295	11	279	15	381	18504024
18208400	2	1.00	25	6	152	51	1295	11	279	15	381	18504024
18208415	2	1.25	32	6	152	51	1295	11	279	15	381	18504009

Pole Bracket

Use the Pole Bracket for all 90 Degree and 45 Degree Corner Blocks. A ratcheting strap design provides easy set-up, while offering a tight fit to the pole. Bracket is steel with a vertical shaft to receive Corner Block. A safety clip is provided to hang unit from strand while installing.

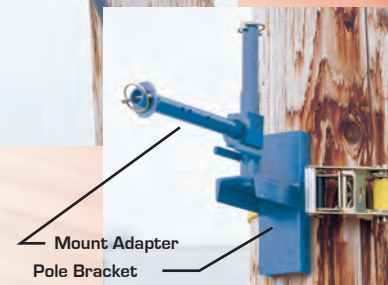
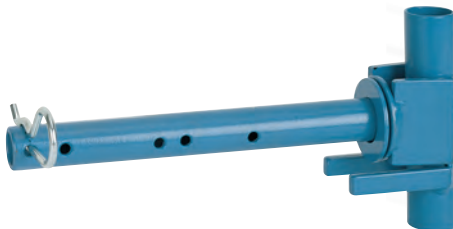
Part Number	Description
18104400	Pole bracket mount with ratcheting strap



Pole Bracket Mount Adapter

Installs easily on the Pole Bracket to provide a horizontal axis to mount 45 Degree Corner Blocks that are to be used as a reel-to-strand chute.

Part Number	Description
18106000	Pole bracket mount adapter (requires Pole Bracket)





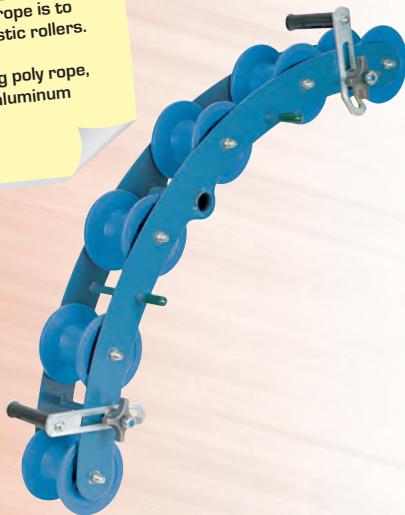
CONDUX

90 DEGREE CORNER BLOCKS

FYI

No poly-based rope is to be used on plastic rollers.

If you are using poly rope, please order aluminum block rollers.



90° Corner Cable Block 18101930

90 Degree Corner Blocks

Ensure minimal drag is placed on the cable and that minimum bend radius is not exceeded. Pole-mounted blocks guide cable around an inside or outside corner. Corner blocks are available in 90 degree configurations with a variety of cable carrying capacities.

For the recommended accessories please see **Corner Blocks Mounting Hardware (page 11)** which includes the **Pole Bracket** and **Pole Bracket Mount Adapter**. Replacement rollers available, page 14.

90 Degree Large Diameter Corner Block

A larger bend radius of 23" (584 mm) makes this block effective for larger diameter cable and innerduct—up to 2.75" (70 mm) diameter. Welded and painted steel frame. Plastic rollers are durable and lightweight.

Mounts on Pole Bracket. Order separately, page 11. Replacement rollers available, page 14.

Part Number	Description	Roller/Cable Config.	Frame Material	Roller Material
18101930	90° corner cable block	1 @ 2.75" (70 mm)	steel	plastic
18101935	90° corner cable block	1 @ 2.75" (70 mm)	steel	aluminum


FYI

No poly-based rope is to be used on plastic rollers.

If you are using poly rope, please order aluminum block rollers.

90° Corner Cable Block 18101940

90 Degree Corner Blocks

With a bend radius of 22.25" (565 mm), these corner blocks feature a welded and painted steel frame with angular and vertical reinforcements. Plastic rollers are durable and lightweight. Adjustable rubber idler arms retain cable in position.

Mounts on Pole Bracket. Order separately, page 11. Replacement rollers available, page 14.

Part Number	Description	Roller/Cable Config.	Frame Material	Roller Material
18101940	90° corner cable block	1 @ 1.25" (32 mm)	steel	plastic

45 Degree Corner Blocks

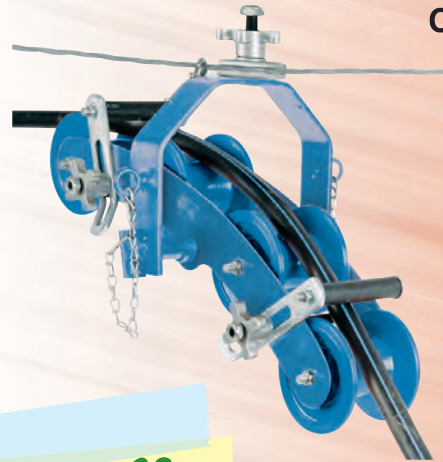
45 Degree Corner Blocks are used to guide cable on inside or outside corners and are used as a cable chute in reel-to-strand spans, or mid-spans. These cable blocks ensure minimal drag is placed on cable and that the minimum bend radius is not exceeded.

For the recommended accessories please see **Corner Blocks Mounting Hardware (page 11)**. Mounts on Pole Bracket with or without Pole Bracket Mount Adapter (page 11), or with Set-Up Brackets (page 10), depending on the application. Replacement rollers available, page 14.

45 Degree Large Diameter Corner Block

Large bend radius of 23" [584 mm] can guide a single cable up to 2.75" [70 mm] diameter. Use in corners or as a cable chute. Welded and painted steel frame. Plastic rollers are durable and lightweight.

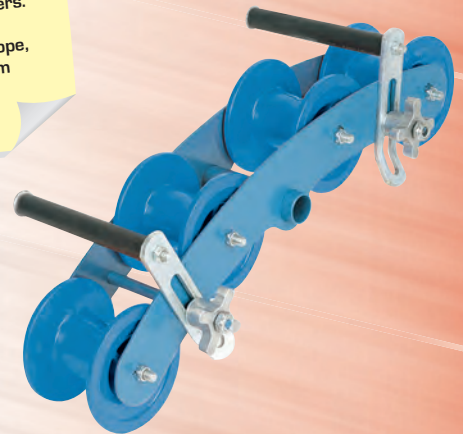
Mounts on Pole Bracket with or without Pole Bracket Mount Adapter (page 11), or with Set-Up Brackets (page 10), depending on the application. Replacement rollers available, page 14.



FYI

No poly-based rope is to be used on plastic rollers.

If you are using poly rope, please order aluminum block rollers.



45° Corner Cable Block 18103530

Part Number	Description	Roller/Cable Config.	Frame Material	Roller Material
18103530	45° corner cable block	1 @ 2.75" (70 mm)	steel	plastic
18103535	45° corner cable block	1 @ 2.75" (70 mm)	steel	aluminum

45 Degree Corner Block

Excellent tool to guide cables in corners or use as a cable chute. Offers a bend radius of 22.25" [565 mm]. Welded and painted steel frame with adjustable rubber idler arms for cable retention. Plastic rollers are durable and lightweight.

Mounts on Pole Bracket with or without Pole Bracket Mount Adapter (page 11), or with Set-Up Brackets (page 10), depending on the application. Replacement rollers available, page 14.

FYI

No poly-based rope is to be used on plastic rollers.

If you are using poly rope, please order aluminum block rollers.



45° Corner Cable Block 18103540

Part Number	Description	Roller/Cable Config.	Frame Material	Roller Material
18103540	45° corner cable block	1 @ 1.25" (32 mm)	steel	plastic



REPLACEMENT ROLLERS

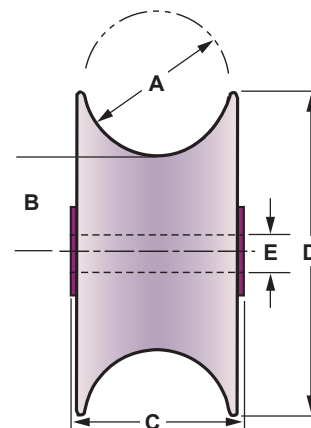
FYI

No poly-based rope is to be used on plastic rollers.

If you are using poly rope, please order aluminum block rollers.

Replacement Rollers

Replacement Rollers available for aerial cable blocks and hangers. Refer to this chart for specifications on roller sizes for these products: Single Roller Cable Block, Pole Mount Single Roller Cable Block, Multiple Roller Cable Block, Economy Cable Block, Overlash Cable Block, Economy Overlash Cable Block, 90 Degree Corner Block, 90 Degree Large Diameter Corner Block, 45 Degree Corner Block, 45 Degree Large Diameter Corner Block.



Part Number	Nominal Roller Size		Roller Material	Roller Color	Maximum Cable O.D. A		Min. Bending Radius B		Max. Roller Width C		Maximum Roller O.D. D		Shaft Diameter E	
	(in)	(mm)			(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
18501010	1.00 x 2.25	25 x 57	plastic	red	1.00	25	0.31	8	1.50	38	2.25	57	0.38	10
18501044	1.25 x 2.25	32 x 57	plastic	black	1.25	32	0.32	8	1.82	46	2.25	57	0.38	10
18403066	2.75 x 2.25	70 x 57	rubber	black	2.50	63	0.32	8	1.82	46	2.25	57	0.38	10
18501008	2.75 x 4.62	70 x 117	plastic	blue	2.75	70	1.05	27	3.44	87	4.63	117	0.50	13
18501186	2.75 x 4.62	70 x 117	aluminum		2.75	70	1.05	27	3.44	87	4.63	117	0.50	13
18501043	1.00 x 1.25	25 x 32	stainless steel		1.00	25	0.32	8	1.50	38	1.25	32	0.38	10
18501012	1.25 x 1.25	32 x 32	stainless steel		1.25	32	0.32	8	1.90	48	1.25	32	0.38	10
18501011	1.25 x 1.25*	32 x 32	stainless steel		1.25	32	0.30	8	3.63	92	1.25	32	0.38	10
18403067	2.75 x 1.25	70 x 32	aluminum		2.50	63	0.32	8	1.90	48	1.25	32	0.38	10

*Double width roller

Roller Size in (mm)	Roller Material	Roller Part No.	PRODUCT							
			Single Roller Cable Block	Pole Mount Single Roller Cable Block	Economy Cable Block	Overlash Cable Block	Economy Overlash Cable Block	90° Corner Block	45° Corner Block	Overlash Aerial Cable Puller
1.00 x 2.25 (25 x 57)	plastic (red)	18501010					18151500			
1.25 x 2.25 (32 x 57)	plastic (black)	18501044			18401060			18101940	18103540	
2.75 x 2.25 (70 x 57)	rubber (black)	18403066				18403060				
2.75 x 4.62 (70 x 117)	plastic (blue)	18501008	18000600 18000660 18001200 18001260	18000610 18000620				18101930	18103530	18308000
2.75 x 4.62 (70 x 117)	aluminum	18501186	18000670 18001270	18000615 18000625				18101935	18103535	
1.00 x 1.25 (25 x 32)	stainless steel	18501043					18151600			
1.25 x 1.25 (32 x 32)	stainless steel	18501012			18401080					
1.25 x 1.25 (32 x 32)	stainless steel	18501011								
2.75 x 1.25 (70 x 32)	aluminum	18403067				18401180				

Lay-Up Sticks

High-strength fiberglass poles are available in 3-foot (.9 m) and 6-foot (1.8 m) sections. Zinc-plated steel reinforced ends with spring-loaded button attachment ensure a positive lock when adding additional sections. Fits standard 1.25" (32 mm) (inside diameter) attachments such as our **Wire Raising Tool** and **Cable Block Lifter** (listed below).

Part Number	Description	Number of Sections	Length of Sections (ft)	Length of Sections (m)
18141300	Lay-up stick	1 @	3	.9
18141600	Lay-up stick	1 @	6	1.8
18143618	Lay-up stick set, 18' (5.4 m)	3 @	6	1.8
18143621	Lay-up stick set, 21' (6.3 m)	1 @	3	.9
		3 @	6	1.8



6' (1.8 m) Lay-Up Stick Set 18143618



3' (.9 m) Lay-Up Stick 18141300

Wire Raising Tools

Raise cable and wire and place cable blocks onto a strand with these handy tools. Available with a single or double end fitting for use with all major manufacturers' lay-up sticks. Steel construction.

Part Number	Description	Inside Diameter		Outside Diameter	
		(in)	(mm)	(in)	(mm)
18110812	Double End Wire raising tool	1.25	32	1.125	29



Double End Wire Raising Tool 18110812

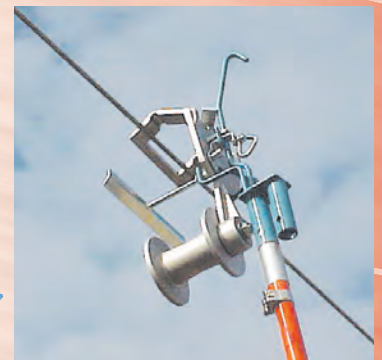
Cable Block Lifter

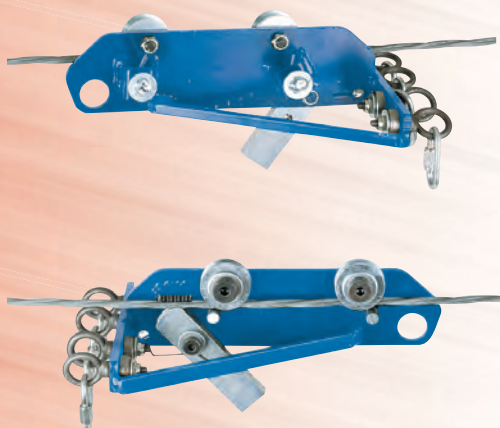
Place and remove cable blocks onto strand safely and easily from the ground. Two end fittings are incorporated into the product to fit all major manufacturers' lay-up sticks. Steel construction.

Part Number	Description	Inside Diameter		Outside Diameter	
		(in)	(mm)	(in)	(mm)
18110834	Cable Block Lifter	1.25	32	1.125	29



Cable Block Lifter 18110834

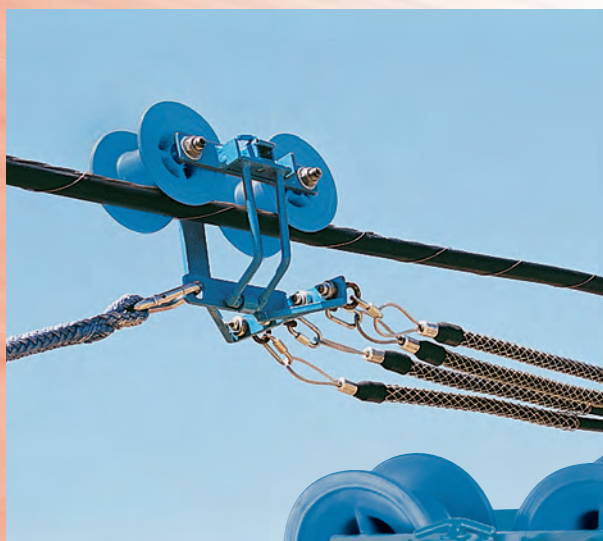




Aerial Cable Puller

Pull multiple cables easily and safely prior to lashing. Cables attach to quick-connect links and pulling eyes that swivel during pulling to avoid tangles and possible cable damage. A spring-loaded strand brake holds the unit in place when pulling is stopped and tension is reduced. The brake releases when tension is increased and pulling is resumed.

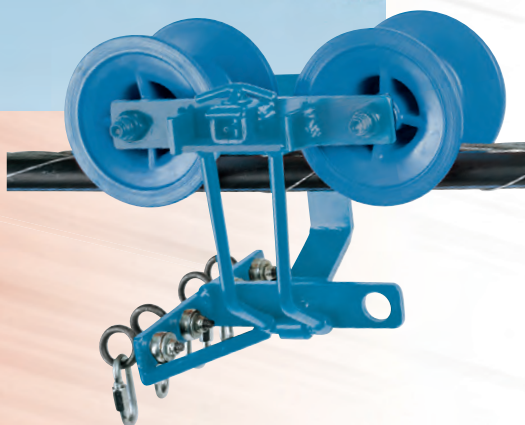
Part Number	Description
18108000	Multiple cable puller for ¼" (6 mm) & ⅝" (8 mm) strand
18108010	Multiple cable puller for ⅝" (8 mm) & ¾" (10 mm) strand



Overlash Aerial Cable Puller

Designed to pull up to 4 new cables over existing bundles. The Condux Overlash Aerial Cable Puller uses large high-impact plastic rollers that roll easily and safely over existing bundles of up to 2.75" (70 mm) in diameter. Cables attach to quick-connect links and pulling eyes that swivel during pulling to avoid tangles and possible cable damage. **Replacement rollers available. See page 14 for ordering information.**

Part Number	Description
18308000	Overlash aerial cable puller



Reel Buck

Hold up to 48" [1,219 mm] diameter reels when a trailer is not available. Designed for one-person handling. 42" [1,067 mm] long. 1,000 lb. Load capacity. Spool Bar included.

Part Number	Description	Maximum Spool Width	
		(in)	(mm)
18100100	Reel Buck and Spool Bar	36	914



Reel Buck 18100100

Ground Rod Driver

Take a safe approach to ground rod installation with Ground Rod Drivers. One-person operation. Rubber coated spring handles. Accommodates ground rod up to $\frac{5}{8}$ " [16 mm] in diameter and is available in two models.

NOTE: Do not operate Ground Rod Drivers in areas where underground cables are present. Properly locate and mark adjacent utilities before using this product.

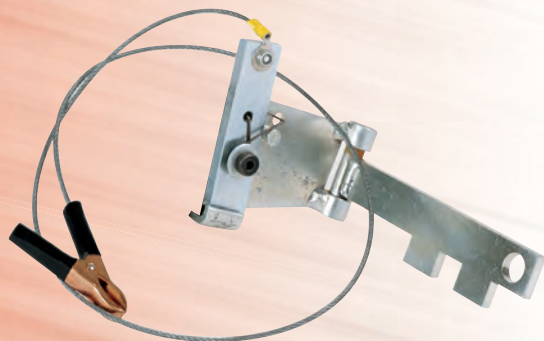
Part Number	Description
18000010	25 lb [11 kg] ground rod driver for normal soils
18000030	40 lb [18 kg] heavy-duty ground rod driver for difficult soils



Ground
Rod Driver
18000030



Strand Brake 18107900



Strand Brake with ground 18107910

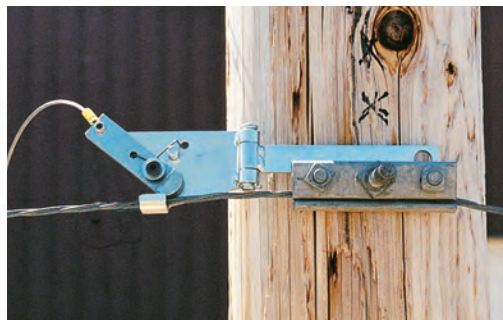


Strand Brake

Minimize strand sagging during installation with the Strand Brake. Designed to allow strand to move in only one direction—the direction of the pull. Convenient mounting bracket is secured in a standard 3-bolt strand clamp on a pole. Bracket swivels to allow slight offsets in pole alignment. A Strand Brake is a simple piece of safety equipment that can help avoid major problems associated with strand sagging. Available with ground wire clip that attaches to the ground wire of the first pole in series. Zinc-plated steel construction. Recommended use: Every 4 to 6 poles and at every traffic crossing.

Part

Number	Description
18107900	Strand brake
18107910	Strand brake with ground



Throwing Weight

A safer way to throw pull line over obstacles. Three-inch [76 mm] diameter soft rubber ball with built-in eyelet.

Part

Number	Description
18010100	Throw weight

Cable Caddy

Cable Caddy products are designed for the proper dispensing of drop cables. These lightweight caddies are portable, durable and help keep cable from twisting or becoming over-tensioned during pay out. Available in 5 models, all featuring tubular steel frames.

Cable Caddy 18120100

Support one reel of drop cable wire.

Cable Caddy 18120125

Support one reel of drop cable wire.

Cable Caddy 18120200

Collapsible frame has foam floor protectors on bottom. Folds to just 4" (101 mm) wide. Supports one reel.

Cable Caddy 18120225

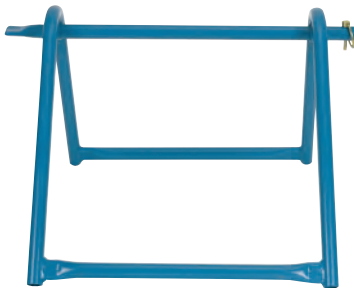
Collapsible frame. Folds to just 4" (101 mm) wide. Supports one reel.

Cable Caddy 18120300

Large capacity carrier has 6" (152 mm) wheels and upright support bar. Supports one reel.



Part Number	Description	Maximum Reel Diameter		Maximum Reel Width		Gross Load Capacity	
		(in)	(mm)	(in)	(mm)	(lb)	(kg)
18120100	Single reel cable caddy	18	457	15	381	100	45
18120125	Single reel cable caddy	24	609	24	609	100	45
18120200	Collapsible cable caddy	18	457	15	381	100	45
18120225	Collapsible cable caddy	24	609	24	609	100	45
18120300	Heavy-duty cable caddy	26	660	15	381	200	91



Cable Caddy 18120100



Cable Caddy 18120200



Cable Caddy 18120300



Duct Rodders

Condux Duct Rodders combine ease of operation and reliable performance to help increase the efficiency of your rodding operations.

Our Duct Rodder cages have been designed to be lighter weight for easy handling in the field. They feature sturdy construction and a hand-operated wheel brake. They can be used on their side as well as upright. 30" (762 mm) and 45" (1,143 mm) cages come with flotation wheels for added mobility. Cage sizes are matched to suit the rod you order.

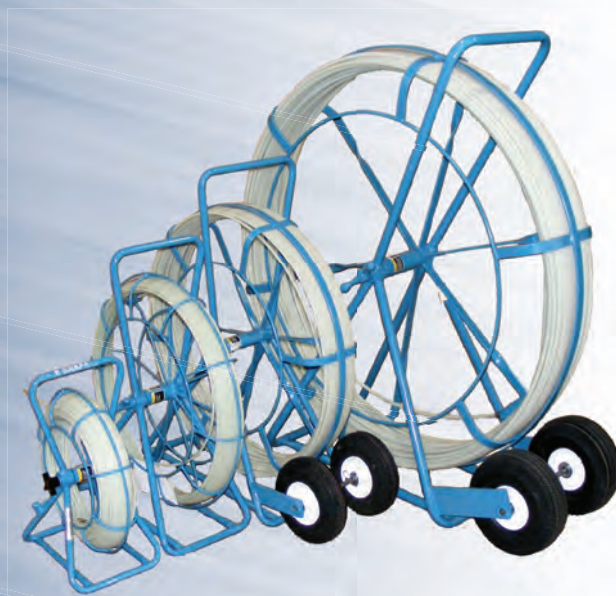
End Fittings Included

Condux duct rods come equipped with a threaded end fitting on each end, plus a tapered head on the outward end. Condux offers a number of optional end fitting accessories for additional applications.

Easy to Order

Simply refer to the charts in this section based on the diameter of rod you need.

All Duct Rodders come standard with a repair kit.



Dozens of rodder accessories (pgs. 24-29) are available to fit your rodding application.



End fittings are included with Condux duct rodders. Vary with rod type ordered. See page 28.



Condux duct rodders feature sturdy construction and reliable performance.



Hand-operated wheel brake adds control and safety.

Three Types of Rod

Condux offers three types of duct rod: Cobra®, Python® and Mini-Cobra®. Each has a glass reinforced composite core jacketed in a rugged plastic coating to ensure long life. All three have excellent flexural strength, compressive strength, fatigue resistance, and memory. They also have favorable electrical and thermal properties that make them safe for use in cable-occupied duct. They are suitable for pulling back winch line or small diameter cable.

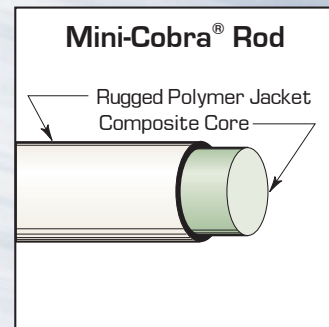
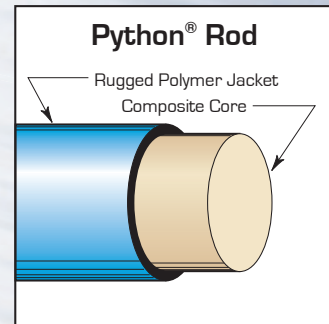
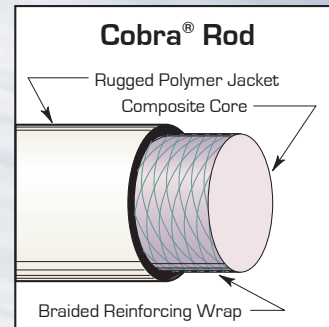
COBRA®: Cobra is our highest quality rod, designed for heavy-duty applications. It gets its extra strength from a unique construction process that ensures greater rigidity and strength, enabling it to endure the additional force required for long duct runs with multiple bends and sweeps. A braided wrap of reinforcing fibers increases its rigidity and helps bond the core with the outer plastic coating. The coating is made from a polymer blend for greater toughness and superior abrasion resistance to ensure extra long life. Includes one male and one female end fitting, and a tapered head.

PYTHON®: Our Python rod is best suited for less demanding applications. It has strength properties similar to our Cobra rod, but is more flexible. Also, like the Cobra, it has a heavy-duty outer plastic coating to resist abrasions and reduce wear. Includes one male and one female end fitting, and a tapered head.

MINI-COBRA®: Our Mini-Cobra rod includes our 3/16" [5 mm] and 1/4" [6 mm] diameter rods used primarily for smaller duct sizes and shorter runs. The rod has the same flexibility and strength features of our Python rod and comes wound in 16" [406 mm] and 24" [610 mm] cages in 50' [25 m] to 600' [200 m] lengths. Includes two male end fittings and two tapered heads.

REPLACEMENT ROD: Replacement rod is available for all Condux Duct Rodders. Please contact Condux Customer Service to place your order. Have your existing duct rodder part number ready to ensure an accurate match. Replacement rod comes with end fittings and tapered heads in a disposable replacement cage.

Replacement accessories listed on pages 24–29.



Conduit Sizes* in (mm)	Recommended Duct Rod Size in (mm)
1/2 (13)	3/16 (5)
3/4 (19)	3/16 (5)
1 (25)	3/16, 1/4 (5, 6)
1 1/4 (32)	3/16, 1/4 (5, 6)
1 1/2 (38)	1/4, 5/16 (6, 8)
2 (51)	1/4, 5/16 (6, 8)
2 1/2 (64)	1/4, 5/16 (6, 8)
3 (76)	5/16, 7/16, 9/16 (8, 11, 13)
3 1/2 (89)	5/16, 7/16, 9/16 (8, 11, 13)
4 (102)	5/16, 7/16, 9/16 (8, 11, 13)
5 (127)	7/16, 9/16 (11, 13)
6 (152)	7/16, 9/16 (11, 13)
8 (203)	9/16 (13)

Duct Rod Specifications

Duct Rod Dia. in (mm)	Duct Rod Pull Strength lbs (N)	Core O.D.** in (mm)	Coating O.D.* in (mm)	Min. Bending Radius in (mm)
3/16 (5)	200 (890)	.125 (3.2)	.187 (4.8)	3 (76)
1/4 (6)	350 (1,557)	.187 (4.8)	.250 (6.3)	5 (127)
5/16 (8)	950 (4,226)	.237 (6.0)	.312 (7.9)	7 (178)
7/16 (11)	950 (4,226)	.300 (7.6)	.437 (11.1)	11 (280)
9/16 (13)	1,400 (6,227)	.375 (9.5)	.500 (13.0)	11 (280)

**Core O.D. Tolerance $\pm .007$ " [.2 mm]; *Coating O.D. Tolerance $\pm .015$ " [.4 mm].



*Conduit sizes based on standard radius bends and should be considered minimums. A larger diameter rod than what is listed is not recommended. Please call your Condux representative for more assistance.



CONDEX

DUCT RODDERS (U.S. THREADS - USC)

FISHING &
RODDING

3/16" Mini-Cobra Rod

#12-24 End Fitting

16" Cage

Part No.	Length (ft)	Replacement Rod No.
08072405	50	08073605
08072410	100	08073610
08072415	150	08073615
08072420	200	08073620
08072425	250	08073625
08072430	300	08073630

1/4" Mini-Cobra Rod

5/16"-18 End Fitting

24" Cage

Part No.	Length (ft)	Replacement Rod No.
08072510	100	08073710
08072515	150	08073715
08072520	200	08073720
08072525	250	08073725
08072530	300	08073730
08072535	350	08073735
08072540	400	08073740
08072545	450	08073745
08072550	500	08073750
08072555	550	08073755
08072560	600	08073760

5/16" Cobra Rod

3/8"-16 End Fitting

30" Cage

Part No.	Length (ft)	Replacement Rod No.
08083720	200	08079120
08083730	300	08079130
08083740	400	08079140
08083750	500	08079150
08083760	600	08079160
08083770	700	08079170
08083780	800	08079180
08083790	900	08079190
08083710	1000	08079110

5/16" Python Rod

3/8"-16 End Fitting

30" Cage

Part No.	Length (ft)	Replacement Rod No.
08084320	200	08082320
08084330	300	08082330
08084340	400	08082340
08084350	500	08082350
08084360	600	08082360
08084370	700	08082370
08084380	800	08082380
08084390	900	08082390
08084310	1000	08082310

FYI

All Duct Rodders come standard with a repair kit.

7/16" Cobra Rod

3/8"-16 End Fitting

45" Cage

Part No.	Length (ft)	Replacement Rod No.
08083820	200	08086320
08083830	300	08086330
08083840	400	08086340
08083850	500	08086350
08083860	600	08086360
08083870	700	08086370
08083880	800	08086380
08083890	900	08086390
08083810	1000	08086310
08083811	1100	08086311
08083812	1200	08086312
08083813	1300	08086313
08083814	1400	08086314
08083815	1500	08086315

7/16" Python Rod

3/8"-16 End Fitting

45" Cage

Part No.	Length (ft)	Replacement Rod No.
08083920	200	08086520
08083930	300	08086530
08083940	400	08086540
08083950	500	08086550
08083960	600	08086560
08083970	700	08086570
08083980	800	08086580
08083990	900	08086590
08083910	1000	08086510
08083911	1100	08086511
08083912	1200	08086512
08083913	1300	08086513
08083914	1400	08086514
08083915	1500	08086515

9/16" Python Rod

3/4"-10 End Fitting

45" Cage

Part No.	Length (ft)	Replacement Rod No.
08083220	200	08075720
08083230	300	08075730
08083240	400	08075740
08083250	500	08075750
08083260	600	08075760
08083270	700	08075770
08083280	800	08075780
08083290	900	08075790
08083210	1000	08075710

ORDER CAREFULLY

This item is made-to-order and is not returnable

Footage Marks

Optional footage marks are available on 5/16", 7/16" and 9/16" Cobra and Python duct rod. Order footage marks by adding an F to the end of the existing part number. Footage marks are every two feet.

Example: If you were ordering 7/16" Python Rod, 1400 feet long you would order: 08083914F.

Additional charges apply.

= 00932 FEET =

5 mm Mini-Cobra Rod		
M5 End Fitting		
406 mm Cage		
Part No.	Length (m)	Replacement Rod No.
08072602	25	08072702
08072605	50	08072705
08072607	75	08072707
08072610	100	08072710

6 mm Mini-Cobra Rod		
M8 End Fitting		
610 mm Cage		
Part No.	Length (m)	Replacement Rod No.
08072802	25	08072902
08072805	50	08072905
08072807	75	08072907
08072810	100	08072910
08072812	125	08072912
08072815	150	08072915
08072817	175	08072917
08072820	200	08072920

8 mm Cobra Rod		
M12 End Fitting		
762 mm Cage		
Part No.	Length (m)	Replacement Rod No.
08073005	50	08073505
08073007	75	08073507
08073010	100	08073510
08073012	125	08073512
08073015	150	08073515
08073017	175	08073517
08073020	200	08073520
08073025	250	08073525
08073030	300	08073530

8 mm Python Rod		
M12 End Fitting		
762 mm Cage		
Part No.	Length (m)	Replacement Rod No.
08075205	50	08076405
08075207	75	08076407
08075210	100	08076410
08075212	125	08076412
08075215	150	08076415
08075217	175	08076417
08075220	200	08076420
08075225	250	08076425
08075230	300	08076430

11 mm Cobra Rod		
M12 End Fitting		
1143 mm Cage		
Part No.	Length (m)	Replacement Rod No.
08077205	50	08077705
08077207	75	08077707
08077210	100	08077710
08077212	125	08077712
08077215	150	08077715
08077217	175	08077717
08077220	200	08077720
08077225	250	08077725
08077230	300	08077730
08077235	350	08077735
08077240	400	08077740
08077245	450	08077745

11 mm Python Rod		
M12 End Fitting		
1143 mm Cage		
Part No.	Length (m)	Replacement Rod No.
08078505	50	08078605
08078507	75	08078607
08078510	100	08078610
08078512	125	08078612
08078515	150	08078615
08078517	175	08078617
08078520	200	08078620
08078525	250	08078625
08078530	300	08078630
08078535	350	08078635
08078540	400	08078640
08078545	450	08078645

13 mm Python Rod		
M12 End Fitting		
1143 mm Cage		
Part No.	Length (m)	Replacement Rod No.
08078705	50	08079305
08078707	75	08079307
08078710	100	08079310
08078712	125	08079312
08078715	150	08079315
08078717	175	08079317
08078720	200	08079320
08078725	250	08079325
08078730	300	08079330

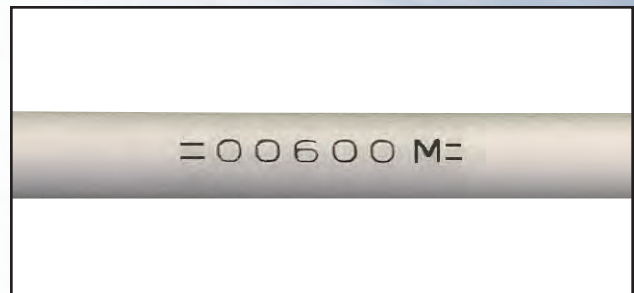


Metric Marks

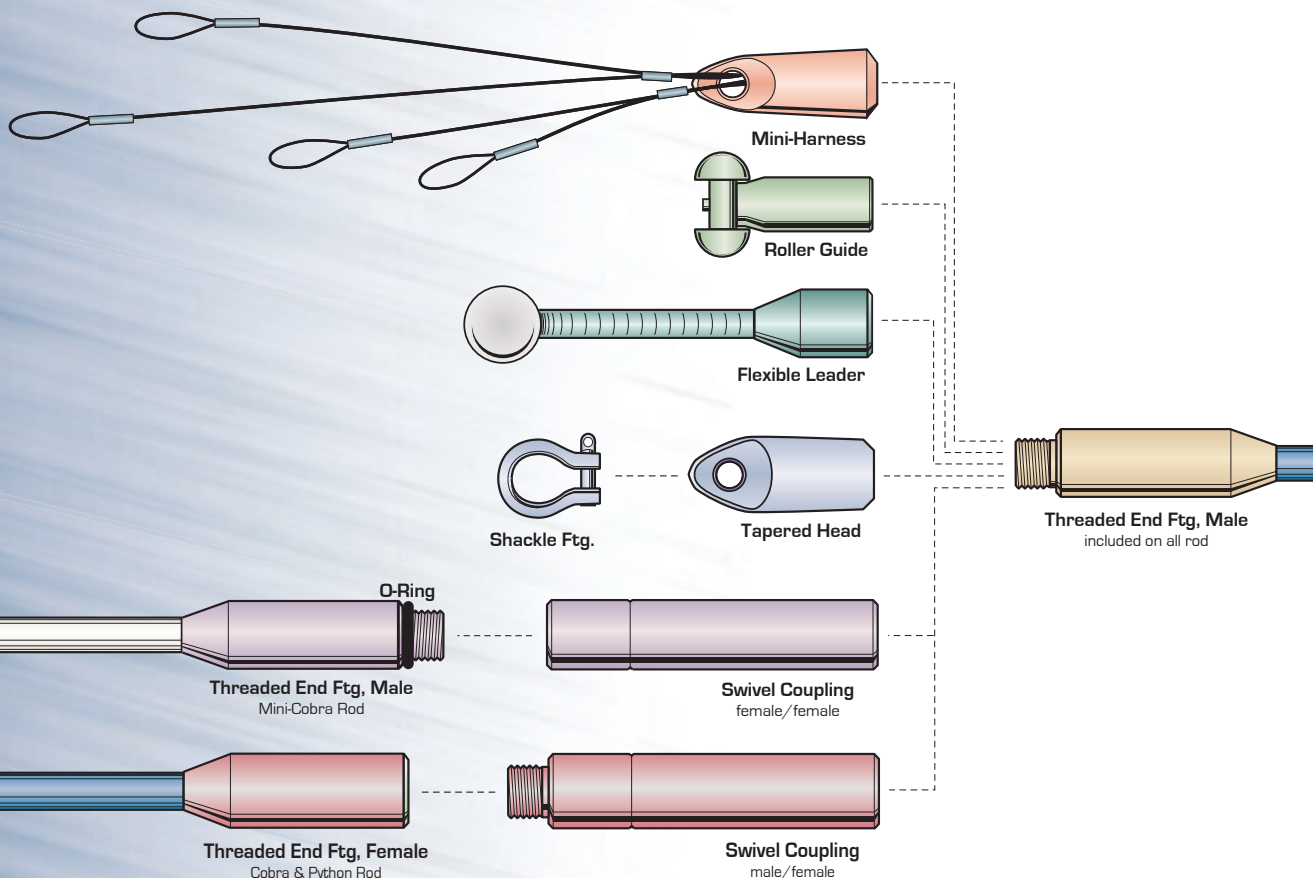
Optional metric marks are available on 8 mm, 11 mm and 13 mm Cobra and Python duct rod. Order metric marks by adding an M to the end of the existing part number. Metric marks are every meter.

Example: If you were ordering 11 mm Python Rod, 400 Meters long you would order: 08078540M.

Additional charges apply.



Duct Rodder Accessories



Accessory Kit

Popular accessories available in a convenient bag that attaches to the cage. Kit Includes: Canvas Bag, Roller Guide, Splice Kit, Epoxy, Swivel Coupling, Tapered head, and Threaded End Fittings.

Rod Dia., in (mm)	3/16 (5)*	1/4 (6)*	5/16 (8)	7/16 (11)	9/16 (13)
USC Thread	#12-24	5/16-18	3/8-16	3/8-16	3/4-10
Accessory Kit	08033498	08033499	08033497	08033494	08033488
Metric Thread	M5	M8	M12	M12	M12
Accessory Kit	08033492	08033493	08033496	08033495	08033489

* Kits for 3/16 (5 mm) and 1/4 (6 mm) rod also include a Flexible Leader and O-Rings.

Bag Only 08033490

Mini Harness

Screws onto the threaded end fitting to allow for easy wire attachment when pulling wire into conduit.

Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	9/16 (13)
USC Thread	#12-24	5/16-18	3/8-16	3/8-16	3/4-10
Mini Harness	08033433	08033434	08033435	08033435	08033436
Metric Thread	M5	M8	M12	M12	M12
Mini Harness	08033432	08033431	08033437	08033437	08033437



Roller Guide

Helps guide the duct rod around bends, sweeps, and duct misalignments. Also used when the conduit is already occupied by other cables.

US Duct Rodders Rod Diameter (in)	USC Thread	Roller Guide Part Number	Duct Range I.D. (in)
3/16	#12-24	08037430	.50 - 1.25
1/4	5/16-18	08037440	1.00 - 2.50
5/16	3/8-16	08037460	1.50 - 6.00
5/16	3/8-16	08037401	2.50 - 6.00
7/16	3/8-16	08037401	2.50 - 6.00
9/16	3/4-10	08037400	3.00 - 8.00
Metric Duct Rodders Rod Diameter (mm)	Metric Thread	Roller Guide Part Number	Duct Range I.D. (mm)
(5)	M5	08037428	12.7 - 32
(6)	M8	08037450	25 - 63
(8)	M12	08037405	63 - 152
(11)	M12	08037405	63 - 152
(13)	M12	08037405	76 - 203



5/16" (8 mm) to 9/16" (13 mm)



3/16" (5 mm) to 1/4" (6 mm)

Flexible Leader

Helps guide the duct rod around bends, sweeps, and duct misalignments.

Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	9/16 (13)
USC Thread	#12-24	5/16-18	3/8-16	3/8-16	3/4-10
Flexible Ldr.	08033423	08033443	08037538	08037538	08037534
Metric Thread	M5	M8	M12	M12	M12
Flexible Ldr.	08033448	08033444	08037512	08037512	08037512



3/16" (5 mm) to 1/4" (6 mm)



5/16" (8 mm) to 9/16" (13 mm)



Shackle Fitting

Fits onto Tapered Head to provide a larger pulling loop for attaching the rope or pull line.

Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	9/16 (13)
USC Thread	#12-24	5/16-18	3/8-16	3/8-16	3/4-10
Shackle Fitting	-	-	08031101	08031101	08031100
Metric Thread	M5	M8	M12	M12	M12
Shackle Fitting	-	-	08031101	08031101	08031101



Female/Female

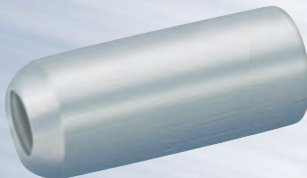


Male/Female

Swivel Coupling

Used to connect two duct rods pushed into the conduit from the same end. Used when one length of duct rod is not long enough for the full conduit run. Also used as a rotating swivel when pulling wire or rope with the Tapered Head or Mini-Harness.

Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	9/16 (13)
USC Thread	#12-24	5/16-18	3/8-16	3/8-16	3/4-10
Female/Female	08033470	08033459	-	-	-
Male/Female	08033422	08033442	08036800	08036800	08036700
Metric Thread	M5	M8	M12	M12	M12
Female/Female	08033429	08033483	-	-	-
Male/Female	08033426	08033485	08036806	08036806	08036806



Sonde Adapter

Couples a locating sonde or other device with an M10 male thread to the male end fitting of the duct rod. Specify sonde, thread and rodder.

Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	9/16 (13)
USC Thread	#12-24	5/16-18	3/8-16	3/8-16	3/4-10
Sonde Adapter	-	08036500	08036503	08036503	08036504
Metric Thread	M5	M8	M12	M12	M12
Sonde Adapter	-	08036505	08036501	08036501	08036501

Custom adapters available upon request.



Repair Kit

Replacement repair kit that comes standard with duct rod. Accessories available in a convenient bag that attaches to the cage.

Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	9/16 (13)
Replacement Kit	08035770	08035772	08035774	08035776	08035778

Duct Rodder Replacement Brake Handles

Use Condux Duct Rodder Replacement Brake Handles to replace missing or damaged handles on existing cages.

Part No.	Description
02218300	16" (406 mm) Duct Rodder Replacement Brake Handle
08081547	24" (610 mm) Duct Rodder Replacement Brake Handle
08081547	30" (762 mm) Duct Rodder Replacement Brake Handle
08081567	45" (1,143 mm) Duct Rodder Replacement Brake Handle



Duct Rodder Replacement Cages

Use Condux Duct Rodder Replacement Cages to update older cages or to replace damaged cages. Fits all major manufacturers' fiberglass rods.

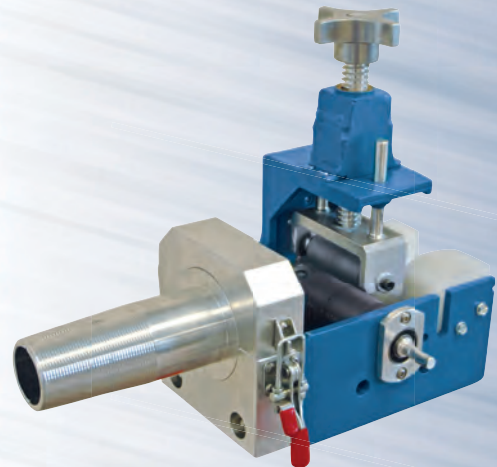
Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	9/16 (13)
Replacement Cage	08081516R	08081524R	08081530R	08081550R	08081550R
Cage Diameter	16" (406)	24" (610)	30" (762)	45" (1,143)	45" (1,143)



Duct Rod Pusher

The Condux Rod Pusher, which has been designed for the purpose of installing duct rod into conduit. The conduit must previously have been installed underground or overhead to receive the duct rod and must be of sufficient length on exit to be received by the machine. The duct rod is continuously pushed into the conduit by a roller drive powered by a cordless, corded or pneumatic drill. Screw adapter into conduit and clamp pusher to the adapter.

Part Number	Description
08081301	Duct Rod Pusher



Split Threaded Adapter Part No.	Duct Size (in)	Duct I.D. Range
08201108	.75	0.83 - 1.00
08201110	1	0.90 - 1.13
08201112	1.25	1.25 - 1.40
08201115	1.5	1.40 - 1.65
08201020	2	1.91 - 2.10
08201025	2.5	2.29 - 2.47
08201030	3	2.83 - 3.10
08201041	4	3.80 - 4.06
08201051	5	4.71 - 5.08
08201061	6	5.61 - 6.10



CONDUX

DUCT RODDER ACCESSORIES

FISHING &
RODDING

Female End Fitting



Male End Fitting

FYI
Don't forget to order the
Epoxy.

Replacement/Repair Accessories

Threaded End Fittings

Use as a replacement to the factory installed end fittings if the end fitting breaks off or if the duct rod breaks close to the end of the rod. Installation instructions are included with the end fittings. Epoxy is required for installation and is ordered separately.

Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	9/16 (13)
USC Thread	#12-24	5/16-18	3/8-16	3/8-16	3/4-10
Male	08033420K	08033440K	08036307K	08036303K	08036005K
Female	-	-	08036306K	08036304K	08036006K
Metric Thread	M5	M8	M12	M12	M12
Male	08033487	08033486	08036318	08036319	08036316
Female	-	-	08036317	08036314	08036315

Splice Kit

Use to repair the duct rod if it breaks. Kit includes: Splice Tube, Epoxy and installation instructions.

Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	9/16 (13)
Splice Kit	08033457	08033465	08035753	08035751	08035752
Splice Tube Only	08033455	08033463	08035703	08035701	08035702

Epoxy

Use with End Fittings or Splice Tubes to repair Duct Rodders.

Part Number	Description
08035851	Single pack for replacing end fittings
08035852	Double pack for splice tubes



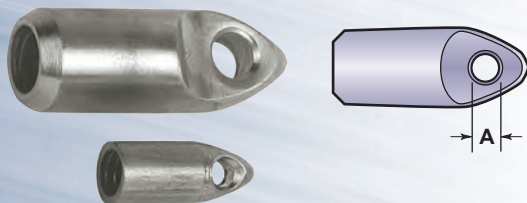
Splice Kit

Splice Tube

Tapered Head

Attaches to the end fitting on the duct rod. Guides duct rod through the conduit and allows a pull line (diameter A) to be attached to the duct rod. Comes standard with each of the duct rodders.

Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	9/16 (13)
USC Thread	#12-24	5/16-18	3/8-16	3/8-16	3/4-10
Tapered Head	08033421	08033441	08038400	08038400	08038300
Diameter A	.156 (4)	.156 (4)	.281 (7)	.281 (7)	.343 (9)
Metric Thread	M5	M8	M12	M12	M12
Tapered Head	08033410	08033480	08038301	08038301	08038301
Diameter A	.156 (4)	.156 (4)	.281 (7)	.281 (7)	.281 (7)



O-Rings

Used to help keep accessories on the end fitting while rodding. Comes standard with the Mini-Cobra rodders.

Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	9/16 (13)
USC Thread	#12-24	5/16-18	3/8-16	3/8-16	3/4-10
O-Rings	02163600	02215000	-	-	-
Metric Thread	M5	M8	M12	M12	M12
O-Rings	02163600	02215000	-	-	-



Fiberglass Hand Rods

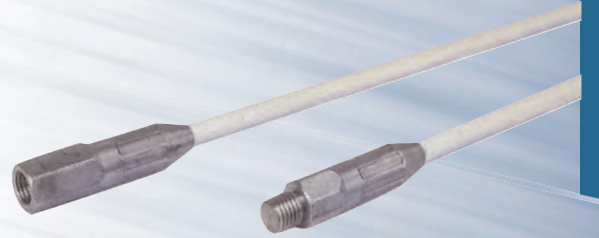
Screw together fiberglass duct rods for straight runs. All rods equipped with $\frac{3}{4}$ "-10 end fittings, which work with $\frac{3}{4}$ "-10 duct rod accessories (see pgs. 24-29). 2,500 lbs. [11,120 N] pull rating.

Part Number	Size (in x ft)	(mm x m)
08032026	$\frac{5}{8}$ x 5	16 x 1.5
08032022	$\frac{5}{8}$ x 10	16 x 3

Replacement Brass Hand Rod End Fittings

Requires Epoxy: 08035851

Part Number	Size/Type in (mm)
08036157	$\frac{3}{4}$ "-10 male end for $\frac{5}{8}$ " [16 mm] rod
08036156	$\frac{3}{4}$ "-10 female end for $\frac{5}{8}$ " [16 mm] rod



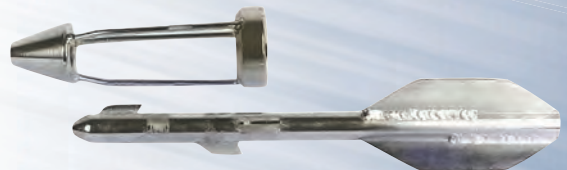
FISHING &
RODDING



Basket Combination

Used to connect two hand rods pushed into the conduit from opposite ends of the conduit run. Both rods can then be pulled out in one direction. Used instead of a swivel coupling when the full length of the rod is difficult to push from one end. Works in 4" [102 mm] or larger conduit only. Does not negotiate tight bends.

Rod Dia., in (mm)	$\frac{3}{16}$ (5)	$\frac{1}{4}$ (6)	$\frac{5}{16}$ (8)	$\frac{7}{16}$ (11)	$\frac{9}{16}$ (13)
USC Thread	#12-24	$\frac{5}{16}$ -18	$\frac{3}{8}$ -16	$\frac{3}{8}$ -16	$\frac{3}{4}$ -10
Basket Comb.	-	-	08031400	08031400	08031300
Metric Thread	M5	M8	M12	M12	M12
Basket Comb.	-	-	08033700	08033700	08033700





Universal Seal-Off Control Valve

The Universal Seal-Off Control Valve Body is used with the Innerduct Seal-Off, Conduit Seal-Off, and Double Seal-Off. Use the interchangeable heads for the style and size you need. Comes equipped with an air flow valve and a universal hose coupling for attachment to most compressors. $\frac{3}{16}$ " (5 mm) rope adapter included.

Part Number	Description
08032165	Seal-Off control valve body

FYI

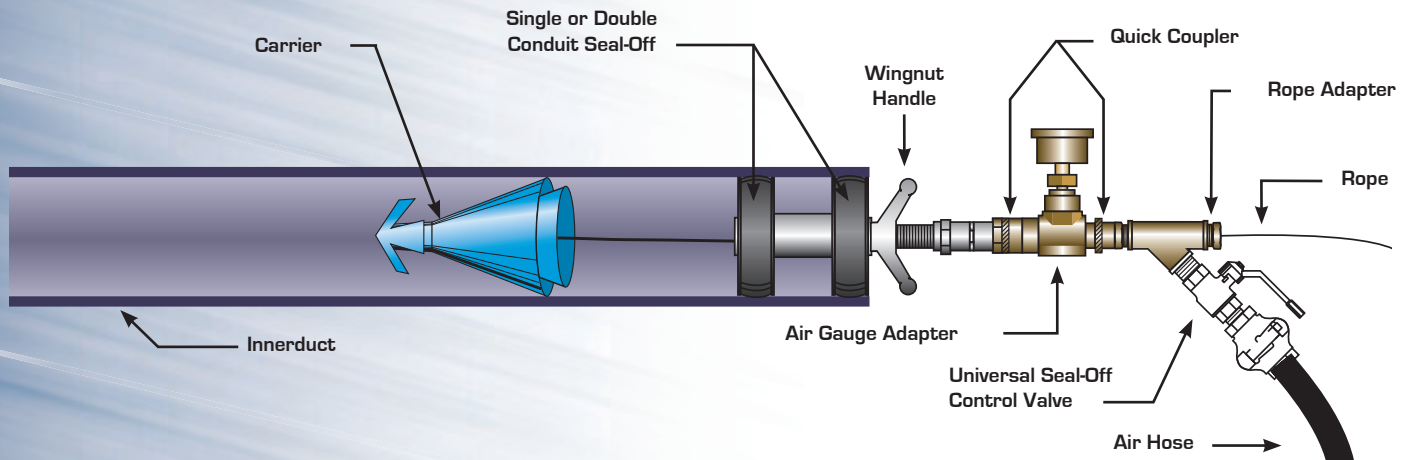
15 psi Max Pressure.



Air Gauge Adapter

The Air Gauge Adapter is used for monitoring air pressure on the Innerduct Seal-off, Conduit Seal-off, and Double Seal-off. (do not exceed 15 PSI)

Part Number	Description
08032175	Air Gauge Adapter

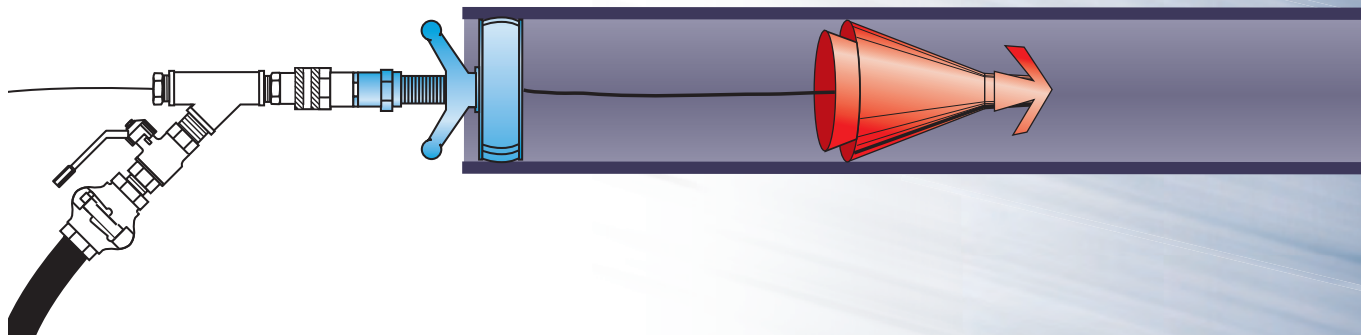
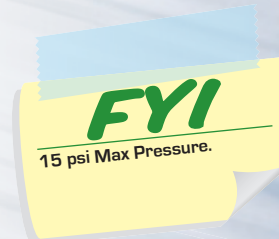


Individual Innerduct Seal-Offs

Part Number	Description	Nominal Duct Size (in)	(mm)	Innerduct I.D. Range (in)	(mm)
08034321	$\frac{3}{4}$ " Quick Innerduct Seal-Off	$\frac{3}{4}$	19	.72-.94	19-24
08034315	1" Quick Innerduct Seal-Off	1	25	.93-1.19	24-30
08034316	1 $\frac{1}{4}$ " Quick Innerduct Seal-Off	1 $\frac{1}{4}$	32	1.18-1.44	30-37
08034317	1 $\frac{1}{2}$ " Quick Innerduct Seal-Off	1 $\frac{1}{2}$	38	1.31-1.69	33-43
08034318	2" Quick Innerduct Seal-Off	2	51	1.93-2.31	49-59

Compressor Seal-Offs

Universal duct seal-off for blowing projectiles and line carriers (see pgs. 36-37) through the duct using an external air compressor. **Order Seal-Off Body, Control Valve and Seal-Off Heads separately.**



Individual Conduit Seal-Offs

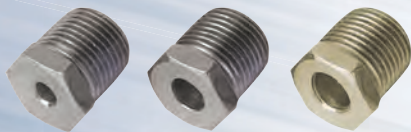
Part Number	Description	Nominal Duct Size		Duct I.D. Range	
		(in)	(mm)	(in)	(mm)
08032900	2" Quick Conduit Seal-Off	2	51	1.93-2.36	49-60
08032905	2½" Quick Conduit Seal-Off	2½	63	2.40-2.76	61-70
08032910	3" Quick Conduit Seal-Off	3	76	2.87-3.31	73-84
08032915	3½" Quick Conduit Seal-Off	3½	89	3.50-3.75	89-95
08032920	4" Quick Conduit Seal-Off	4	102	3.54-4.25	90-108
08032925	5" Quick Conduit Seal-Off	5	127	4.72-5.37	120-136
08032930	6" Quick Conduit Seal-Off	6	152	5.50-6.29	140-160
08032935	8" Quick Conduit Seal-Off	8	203	7.83-8.27	199-210



Individual Double Seal-Offs

Part Number	Description	Nominal Duct Size		Duct I.D. Range	
		(in)	(mm)	(in)	(mm)
08032940	2" Quick Double Seal-Off	2	51	1.93-2.36	49-60
08032945	2½" Quick Double Seal-Off	2½	63	2.40-2.76	61-70
08032950	3" Quick Double Seal-Off	3	76	2.87-3.31	73-84
08032955	3½" Quick Double Seal-Off	3½	89	3.50-3.75	89-95
08032960	4" Quick Double Seal-Off	4	102	3.54-4.25	90-108
08032965	5" Quick Double Seal-Off	5	127	4.72-5.37	120-136
08032970	6" Quick Double Seal-Off	6	152	5.50-6.29	140-160
08032975	8" Quick Double Seal-Off	8	203	7.83-8.27	199-210





Rope Adapter Kit

Allows a wider range of rope diameters to be used with the Innerduct and Compressor seal-offs. Adapters specific for $\frac{3}{16}$ " (5 mm), $\frac{1}{4}$ " (6 mm), $\frac{3}{8}$ " (10 mm) diameter ropes provide optimum seal-off performance.

Part Number	Description
08032181	Adapter Kit for Conduit Seal-Offs
08032190	$\frac{3}{16}$ " (5 mm) Rope Adapter
08032191	$\frac{1}{4}$ " (6 mm) Rope Adapter
08032170	$\frac{3}{8}$ " (10 mm) Rope Adapter



Replacement Seals for Compressor Seal-Offs

Part Number	Nominal Duct Size	
	(in)	(mm)
08082121	2	51
08082126	2½	63
08082131	3	76
08082136	3½	89
08082141	4	102
08082151	5	127
08082161	6	152



Order individual innerduct seal-offs on page 31.

Innerduct Seal-Off Case

Inserts into the innerduct and twists tight for seal. Comes standard with Universal control valve, $\frac{3}{16}$ " (5 mm) Rope Adapter, and case. Seal-offs sold separately.

Part No.	Description
08032984	Universal Control Valve & Case (Innerduct)



Replacement Handle for Single & Double Seal-offs

Use to replace missing or damaged handles for Individual Conduit Seal-offs or Individual Double Seal-offs.

Part No.	Description
08032179	Replacement Handle for Single and Double Seal-offs

Conduit Seal-Off Case

Locks into duct with a turn of the wing-nut handle, compressing rubber ring for a better seal. Comes standard with Universal control valve, $\frac{3}{16}$ " [5 mm] Rope Adapter, and case. Seal-offs sold separately.

Part No.	Description
08032980	Universal Control Valve & Case (Single Conduit)



Order individual conduit seal-offs on page 31.

FISHING &
RODDING

Double Seal-Off Case

Locks into duct with a turn of the wing-nut handle, compressing both rubber rings for a better seal. Comes standard with Universal control valve, $\frac{3}{16}$ " [5 mm] Rope Adapter, and case. Seal-offs sold separately.

Part No.	Description
08032983	Universal Control Valve & Case (Double Conduit)



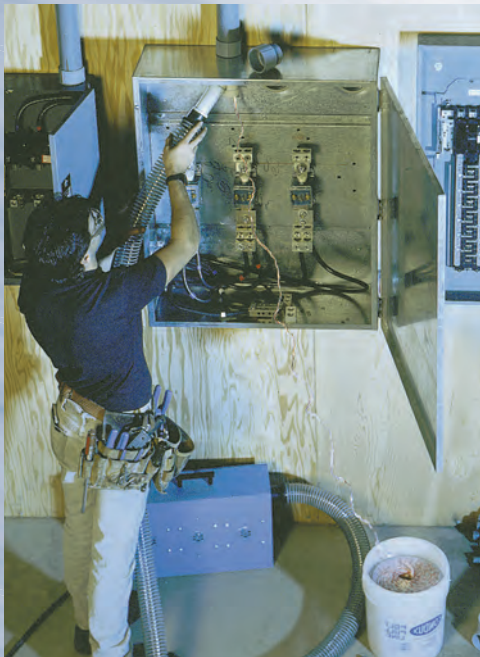
Order individual double seal-offs on page 31.



POWER DART® BLOWER

CONDUX

FISHING &
RODDING



Foam Carrier Options

Part Number	Description
08078200	1/2" (13 mm) Foam Carrier
08078300	3/4" (19 mm) Foam Carrier
08032200	1" (25 mm) Foam Carrier
08033600	30 mm Foam Carrier
08032300	1 1/4" (32 mm) Foam Carrier
08039800	1 1/2" (38 mm) Foam Carrier
08033500	45 mm Foam Carrier
08032400	2" (51 mm) Foam Carrier
08033800	60 mm Foam Carrier
08078400	2 1/2" (64 mm) Foam Carrier
08032500	3" (76 mm) Foam Carrier
08033900	80 mm Foam Carrier
08032100	3 1/2" (89 mm) Foam Carrier
08032600	4" (102 mm) Foam Carrier
08059100	5" (127 mm) Foam Carrier
08059200	6" (152 mm) Foam Carrier

Cable Chute Line Carrier Options

(See pg 36 for additional sizes)

Part Number	Description
08033520	Carrier, Chute 1.25 Nylon
08033532	Carrier, Chute 2.00 Nylon
08033548	Carrier, Chute 3.00 Nylon
08033564	Carrier, Chute 4.00 Nylon
08033596	Carrier, Chute 6.00 Nylon



Power Dart® Blower

The Power Dart® Blower is a pneumatic rodding system especially suited for long duct runs. A three-motor system allows you to choose the right speed for your needs. With all three motors engaged, the Power Dart Blower will deliver up to 300 cfm (8.5 m³/min) of air at 3 psi (.2 bar) max. pressure, easily blowing 1/2" (13 mm) poly line or measuring tape over 2,000 feet (610 m) in conduit up to 6 inches (152 mm) in diameter. Weighs only 31 pounds (14 kg) and operates at 110 Volts. 110 Volt model includes a 30 amp twist plug. **Requires a 3,000 Watt generator.**

Base Part No. Description

08030003 110V Power Dart Blower

(Includes: 110V Power Dart Blower Unit, Hose, Body Seal-Off & Seal-Offs for 1/2" - 6" (13 mm-152 mm) Conduit
Carriers not included.

Bag Option

Part Number Description

08030060 Power dart blower accessory bag

Carrier Kit Option

Part Number Description

08030011 Carrier Kit for Power Dart Blower

Parts in Carrier Kit:

QTY	Part Number	Description
(2)	08067900	2" (51 mm) Line Carrier
(1)	08030300	4" (102 mm) Line Carrier
(2)	08031820	2" (51 mm) Duct Projectile
(1)	08031840	4" (102 mm) Duct Projectile
(1)	08033532	Carrier, Chute 2.00 Nylon
(1)	08033548	Carrier, Chute 3.00 Nylon
(1)	08033564	Carrier, Chute 4.00 Nylon
(1)	08039400	Seal-Off Body Handle
(1)	08066800	Power Dart Seal-Off 1 1/2"-2 1/2" (38-64mm)
(1)	08039500	Power Dart Seal-Off 2 1/2"-6" (64-152mm)

Line Carrier Options

Part Number	Description
08067900	2" (51 mm) Line Carrier
08030100	3" (76 mm) Line Carrier
08030200	3 1/2" (89 mm) Line Carrier
08030300	4" (102 mm) Line Carrier
08030400	5" (127 mm) Line Carrier
08030500	6" (152 mm) Line Carrier



Duct Projectile Options

Part Number	Description
08031812	1 1/4" (32 mm) Duct Projectile
08031814	1 3/8" (35 mm) Duct Projectile
08031815	1 1/2" (38 mm) Duct Projectile
08031816	1 5/8" (41 mm) Duct Projectile
08031820	2" (51 mm) Duct Projectile
08031822	2 1/4" (57 mm) Duct Projectile
08031825	2 1/2" (64 mm) Duct Projectile
08031830	3" (76 mm) Duct Projectile
08031835	3 1/2" (89 mm) Duct Projectile
08031840	4" (102 mm) Duct Projectile
08031844	4 1/4" (108 mm) Duct Projectile
08031846	4 1/2" (114 mm) Duct Projectile
08031850	5" (127 mm) Duct Projectile
08031860	6" (152 mm) Duct Projectile
08031880	8" (203 mm) Duct Projectile



Replacement Accessories

Power Dart Blower Seal-Off

Part Number	Duct Size	
	(in)	(mm)
08039700*	1/2-1 1/4	13-32
08066800	1 1/2-2 1/2	38-64
08039500	2 1/2-6	64-152

*Requires Part Number 08066800 to work.

Power Dart Blower Seal-Off Handle

Part Number	Duct Size	
	(in)	(mm)
08039400	1/2-6	13-152

Power Dart Hose

Part Number	Description
08039300	25' (7.6 m) x 2 1/2" (64 mm) heavy duty hose
08039301	Replacement hose end fitting
08039302	Outlet Fitting on the power dart blower box



Power Dart Blower Accessory Bag

Convenient canvas bag holds power dart hose. Inner bag holds Line Carriers, Foam Carriers, Seal-Off Body and Seal-Offs.

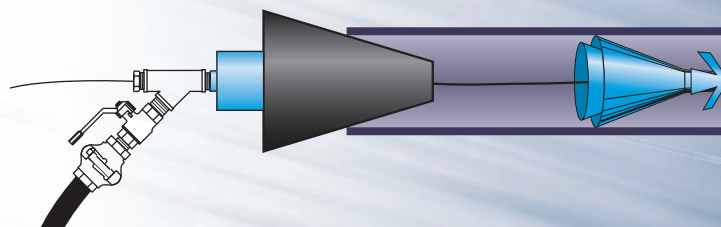
Part Number	Description
08030060	Power dart blower accessory bag



Quick Connect Seal-Off Control Valve

The Quick Connect Seal-Off Control Valve is used to connect the Power Dart Blower Seal-Offs to a standard air compressor claw fitting. Comes equipped with an air flow valve and a universal hose coupling for attachment to most compressors. 3/16" (5 mm) rope adapter included. See page 32 for other rope adapters available.

Part Number	Description
08032185	Quick connect seal-off control valve





Foam Carrier

Lightweight carrier easily blows through duct. Best suited for short runs and runs with multiple bends.

Part Number	Duct Size		Max O.D.	
	(in)	(mm)	(in)	(mm)
08078200	1/2	13	.50	13
08078300	3/4	19	.75	19
08032200	1	25	1.00	25
08032300	1 1/4	32	1.25	32
08039800	1 1/2	38	1.50	38
08033500		45		45
08032400	2	51	2.00	51
08033800		60		60
08078400	2 1/2	64	2.50	64
08032500	3	76	3.00	76
08033900		80		80
08032100	3 1/2	89	3.50	89
08032600	4	102	4.00	102
08059100	5	127	5.00	127
08059200	6	152	6.00	152



Line Carriers

Fast and efficient plastic carriers for fishing with high-speed blowers even in out-of-round duct. Carrier will travel over minor obstructions in duct.

Part Number	Duct Size		Max O.D.	
	(in)	(mm)	(in)	(mm)
08067900	2	51	2.06	52
08030100	3	76	3.06	78
08030200	3 1/2	89	3.56	90
08030300	4	102	4.06	103
08030400	5	127	5.06	129
08030500	6	152	6.06	154



Cable Chute Line Carriers

Condux Cable Chute Line Carriers are designed to pass through conduit without damaging the conduit or existing cable. To use a Cable Chute Line Carrier you would tie a line or webbing to a Chute, insert the Chute into the Conduit or duct, and blow compressed air propelling the Chute to the end of the duct.

All Cable Chute Line Carriers are made with the highest quality fabrics (nylon or leather) and attention to detail. All products are hand made and go through a series of quality checks prior to being shipped out.

Advantages of using Cable Chute Line Carriers over other carriers:

- No damage to cable or conduit
- Eliminates need for duct rodding
- Durable and flexible
- Quick and easy installation
- Cost effective

Part Number	Description
08033512	Carrier, Chute 0.75 Nylon
08033516	Carrier, Chute 1.00 Nylon
08033520	Carrier, Chute 1.25 Nylon
08033524	Carrier, Chute 1.50 Nylon
08033532	Carrier, Chute 2.00 Nylon
08033548	Carrier, Chute 3.00 Nylon
08033564	Carrier, Chute 4.00 Nylon
08033580	Carrier, Chute 5.00 Nylon
08033596	Carrier, Chute 6.00 Nylon
08033648	Carrier, Chute 3.00 Nylon w/ Spring
08033664	Carrier, Chute 4.00 Nylon w/ Spring
08033680	Carrier, Chute 5.00 Nylon w/ Spring
08033696	Carrier, Chute 6.00 Nylon w/ Spring
08033732	Carrier, Chute 2.00 Leather
08033748	Carrier, Chute 3.00 Leather
08033764	Carrier, Chute 4.00 Leather
08033796	Carrier, Chute 6.00 Leather

Duct Projectile

Flexible rubber cones are durable for many repeated uses. Fast and efficient for long runs with easy pull-back.

Part Number	Duct Size		Max O.D.	
	(in)	(mm)	(in)	(mm)
08031812	1¼	32	1.25	32
08031814	1⅝	35	1.37	35
08031815	1½	38	1.50	38
08031816	1⅞	41	1.62	41
08031820	2	51	2.00	51
08031822	2¼	56	2.20	56
08031825	2½	64	2.50	64
08031830	3	76	3.00	76
08031835	3½	89	3.50	89
08031840	4	102	4.00	102
08031844	4¼	108	4.25	108
08031846	4½	115	4.51	115
08031850	5	127	5.00	127
08031860	6	152	6.00	152
08031880	8	203	8.00	203



FISHING & RODDING

Replacement Cones For Duct Projectile

Original equipment replacement cones.

Part Number	Duct Size		Max O.D.	
	(in)	(mm)	(in)	(mm)
08031805	1¼	32	1.25	32
08031803	1⅝	35	1.38	35
08031806	1½	38	1.50	38
08031804	1⅞	41	1.63	41
08031819	2	51	2.00	51
08031821	2¼	56	2.20	56
08031826	2½	64	2.50	64
08031831	3	76	3.00	76
08031802	3½	89	3.50	89
08031841	4	102	4.00	102
08031801	4¼	108	4.25	108
08031847	4½	115	4.51	115
08031851	5	127	5.00	127
08031861	6	152	6.00	152
08031881	8	203	8.00	203

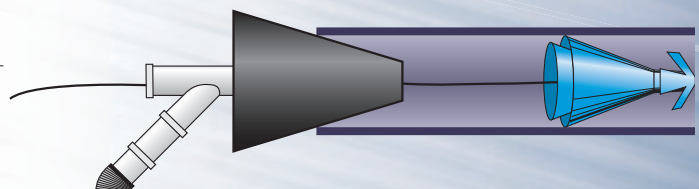


Carrier Kit For Power Dart Blowers

A convenient way to order a practical assortment of carriers and seal-off products for use with the Power Dart Blower or other applications. Kit includes the following:

Item	Duct Size	
	(in)	(mm)
Power Dart Blower Seal-Off	1½-2½	38-64
Power Dart Blower Seal-Off	2½-6	64-152
Power Dart Blower Seal-Off Body	½-6	13-152
Line Carrier	2	51
Line Carrier	4	102
Carrier, Chute 2.00 Nylon	2	51
Carrier, Chute 3.00 Nylon	3	76
Carrier, Chute 4.00 Nylon	4	102
Duct Projectile	2	51
Duct Projectile	4	102

Part Number	Description
08030011	Carrier Kit for Power Dart Blowers



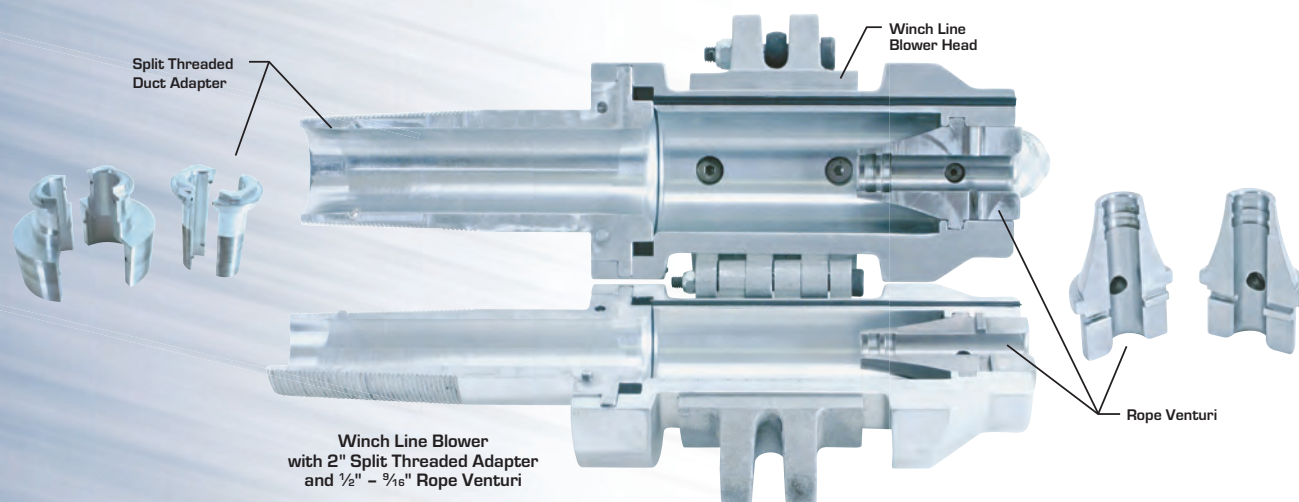


The Condux Winch Line Blower

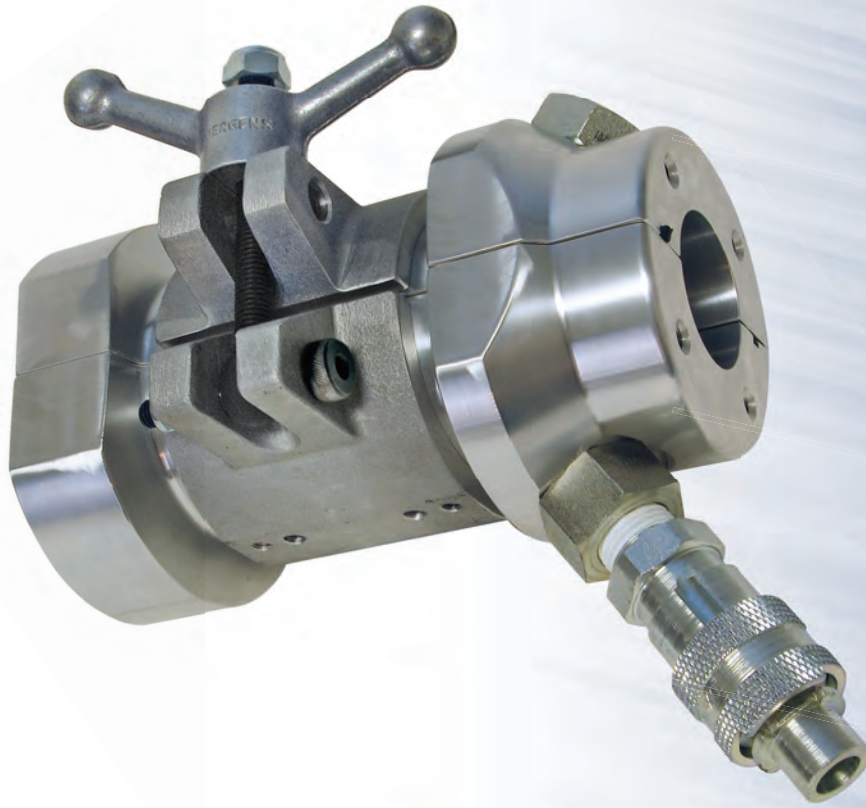
Is a method of installing winch line in Conduit. It turns the job of pulling winch line into one easy step. Eliminating the need to blow a string and pull back a rope.

Using compressed air, 90 psi and 100 cfm, the winch line blower can propel steel winch line, rope or tape in conduit from 1" to 6" in diameter.

Installation is easy. No special tools are required. Follow the steps called out on page 39.



Split Threaded Adapter Part No.	Duct Size (in)	Duct I.D. Range	Rope Venturi			Conduit Carrier
			¼ - ⅜ (in)	½ - ⅝ (in)	⅞ (in)	
08201108	.75	0.83 - 1.00	08201089	08201086	08201090	Call Factory
08201110	1	0.90 - 1.13	08201089	08201086	08201090	Call Factory
08201112	1.25	1.25 - 1.40	08201089	08201086	08201090	Call Factory
08201115	1.5	1.40 - 1.65	08201089	08201086	08201090	Call Factory
08201020	2	1.91 - 2.10	08201089	08201086	08201090	08202020
08201025	2.5	2.29 - 2.47	08201089	08201086	08201090	08202520
08201030	3	2.83 - 3.10	08201089	08201086	08201090	08202920
08201041	4	3.80 - 4.06	08201089	08201086	08201090	08203920
08201051	5	4.71 - 5.08	08201089	08201086	08201090	08204920
08201061	6	5.61 - 6.10	08201089	08201086	08201090	08205920



WINCH LINE & ROPE INSTALLATION



Attach winch line to carrier and insert carrier into pipe.



Install the winch line in the conduit and thread adapter into conduit.



Place the winch line in the main blower body and select the proper venturi.



Complete the assembly, attach compressed air hose and blow in winch line.

PULLING TAPE INSTALLATION



Install pulling tape into winch blower through $\frac{3}{16}$ " tape adapter.



Attach pulling tape to carrier and insert carrier into pipe.



Install threaded adapter into conduit and assemble split winch line blower body.



Complete the assembly and blow in tape.



CONDEX

WINCH LINE BLOWER

FISHING &
RODDING



Body

Part No.	Description
08201080	Winch Line Body Assembly 2-6in (body includes $\frac{1}{2}$ - $\frac{9}{16}$ venturi set)

Venturis

Part No.	Description
08201089	Venturi, Winch Line $\frac{1}{4}$ - $\frac{3}{8}$ set
08201086*	Venturi, Winch Line $\frac{1}{2}$ - $\frac{5}{8}$ set
08201090	Venturi, Winch Line $\frac{7}{8}$ set

* Comes standard.

Plug

Part No.	Description
08780223	Plug, Venturi Air LW FO Blower (Used to seal off back to blow in mule tape or pea line)

Hose & Valve

Part No.	Description
08201015	Hose Valve Assembly-Winch Line



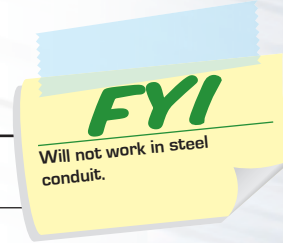
Adapters

Part No.	Description
08201108	Winch Line Duct Adapter .75 in
08201110	Winch Line Duct Adapter 1 in
08201112	Winch Line Duct Adapter 1.25 in
08201115	Winch Line Duct Adapter 1.5 in
08201020	Winch Line Duct Adapter 2 in
08201025	Winch Line Duct Adapter 2 ½ in
08201030	Winch Line Duct Adapter 3 in
08201041	Winch Line Duct Adapter 4 in
08201051	Winch Line Duct Adapter 5 in
08201061	Winch Line Duct Adapter 6 in

See ranges on page 38.

Carriers

Part No.	Description
08202020	Carrier, Winch Line 2 S40&80, TC6
08202520	Carrier, Winch Line 2 ½ S40&80
08202920	Carrier, Winch Line 3 SCH 40&80
08203020	Carrier, Winch Line 3 S40, TC6&8
08203920	Carrier, Winch Line 4 S40&80, TEL
08204020	Carrier, Winch Line 4 S40, TEL
08204920	Carrier, Winch Line 5 SCH 40&80
08205020	Carrier, Winch Line 5 S40, TC6&8
08205920	Carrier, Winch Line 6 SCH 40&80
08206020	Carrier, Winch Line 6 S40, TC6&8



Rope Adapter

Rope Adapter
08201091

Storage Case

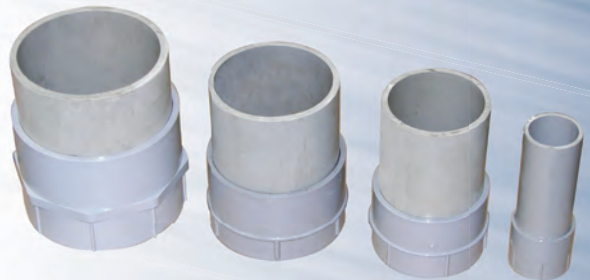
Storage Case
08201093



The Condux GRC to PVC Coupling

An accessory for the Condux Split Winch Line Blower. Adapt your threaded GRC pipe to PVC so you can use the Condux Winch Line Blower to blow in your hardline, rope or tape.

Part No.	Description
08201620	2" GRC to PVC Coupling
08201640	4" GRC to PVC Coupling
08201650	5" GRC to PVC Coupling
08201660	6" GRC to PVC Coupling



Adapter to use LW Blower Duct Seals

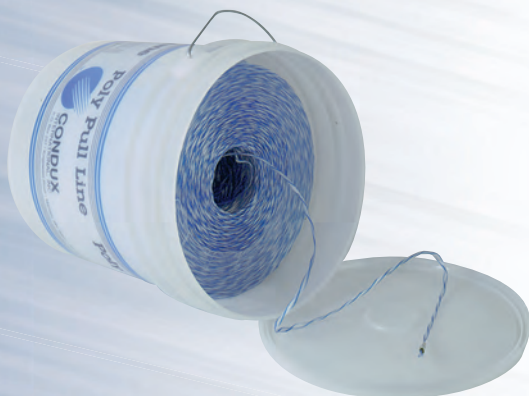
Part No.	Description
08201120	Duct Seals



POLY LINE PAIL/ MEASURING & PULL TAPE

CONDEX

FISHING &
RODDING



Poly Line Pail

Line attaches to the back of a foam carrier, inflatable carrier, or line carrier and is used to pull back a rope. Packaged in a weather-proof, reusable plastic bucket with lid.

Part Number	Break Strength		Length	
	(lbs)	(N)	(ft)	(m)
08561285*	200	890	6,500	1,981
08561297*	450	2,002	2,500	762

*Pallet quantities of 48 available.

Poly Line Replacement String

Replacement string refills.

Part Number	Break Strength		Length	
	(lbs)	(N)	(ft)	(m)
08561284*	200	890	6,500	1,981
08561299*	450	2,002	2,500	762

*Pallet quantities of 80 available.



Conduit Measuring & Pull Tape, Polyester

For pulling fiber optic or coaxial cable through innerduct or for determining exact wall-to-wall measurements in duct runs. Other strengths and lengths are available.

Polyester Tape, Unidirectional*

Used for determining exact wall-to-wall measurements in duct runs or as a low cost blow string.

Part Number	Break Strength		Approx Width		Length	
	(lbs)	(N)	(in)	(mm)	(ft)	(m)
08073900	130	578	3/16	5	3,000	914

*Pallet quantities of 48 available.



Polyester Woven Pre-Lubed Tape

Recommended pulling tape for fiber optic and coaxial cable pulling. Pre-lubricated tape provides a low coefficient of friction for easier cable pulling. Flat design distributes the side-wall load and reduces duct burn-through. Marked with accurate sequential footage markings.

Part Number	Break Strength		Approx Width		Length	
	(lbs)	(N)	(in)	(mm)	(ft)	(m)
08096203	400	1,779	1/4	6	3,000	915
08096503	600	2,669	3/8	10	3,000	915
08096803	900	4,003	1/2	13	3,000	915
08075003	1,250	5,560	1/2	13	3,000	915
08075103	1,800	8,006	3/4	16	3,000	915
08096303	2,500	11,120	3/4	19	3,000	915

Detectable Polyester Woven Pre-Lubed Tape, 22 Gauge Wire

Provides a proven, reliable means of cable or conduit locating. Pre-lubricated tape provides a low coefficient of friction for easier cable pulling. Flat design distributes the side-wall load and reduces duct burn-through. Marked with accurate sequential footage markings.

Part Number	Break Strength		Width		Length	
	(lbs)	(N)	(in)	(mm)	(ft)	(m)
08098203	1,250	5,560	1/2	13	3,000	915
08098303	1,800	8,007	3/4	16	3,000	915
08098403	2,500	11,121	3/4	19	3,000	915



CONDUX

Double-Braided Cable Pulling Rope

Premium quality rope recommended for cable pulling. Complete with spliced eye on each end. Double-braided construction offers high working loads and tensile strength without kinking. Other sizes available. Contact factory for additional rope specifications.



Part Number	Dia.		Length		Standard Tensile		Recommended Working Load 5:1	
	(in)	(mm)	(ft)	(m)	(lbs)	(N)	(lbs)	(N)
08091003	0.50	13	300	91	10,400	46,262	1,760	7,829
08091006	0.50	13	600	183	10,400	46,262	1,760	7,829
08091012	0.50	13	1,200	366	10,400	46,262	1,760	7,829
08090903	0.63	16	300	91	16,300	72,506	2,780	12,366
08090906	0.63	16	600	183	16,300	72,506	2,780	12,366
08090912	0.63	16	1,200	366	16,300	72,506	2,780	12,366
08091103	0.88	22	300	91	29,900	133,002	5,080	22,597
08091106	0.88	22	600	183	29,900	133,002	5,080	22,597
08091112	0.88	22	1,200	366	29,900	133,002	5,080	22,597



Pulling Tape

A flat woven replacement to 1/4" Polypropylene rope that provides a lower coefficient of friction due to its flat woven design. Drastically reduces the chance of burn through that is associated with ropes, and has an elongation of less than 10% compared to Polypropylene rope which is 25%+. Not available printed. Other lengths available.

Part Number	Break Strength		Approx. Width		Length	
	(lbs)	(N)	(in)	(mm)	(ft)	(m)
08099703	1,130	5,026	1/2	13	3,000	914



Measuring Tape Stands

Measuring Tape Stands give you a convenient and stable method for holding and dispensing measuring tape. These lightweight stands are portable, durable and help keep tape from twisting during installation. Available in 5 models, all featuring tubular steel frames.

Single Spool Tape Stand 18120100

Support one spool of measuring tape.

Single Spool Tape Stand 18120125

Support one spool of measuring tape.

Collapsible Tape Stand 18120200

Collapsible frame has foam floor protectors on bottom. Folds to just 4" (101 mm) wide. Supports one reel.

Tape Stand 18120225

Collapsible frame, Folds to just 4" (101 mm) wide. Supports one reel.

Heavy-duty Tape Stand 18120300

Large capacity stand has 6" (152 mm) wheels and upright support bar. Supports one reel.



Single Spool Tape Stand



Collapsible Tape Stand

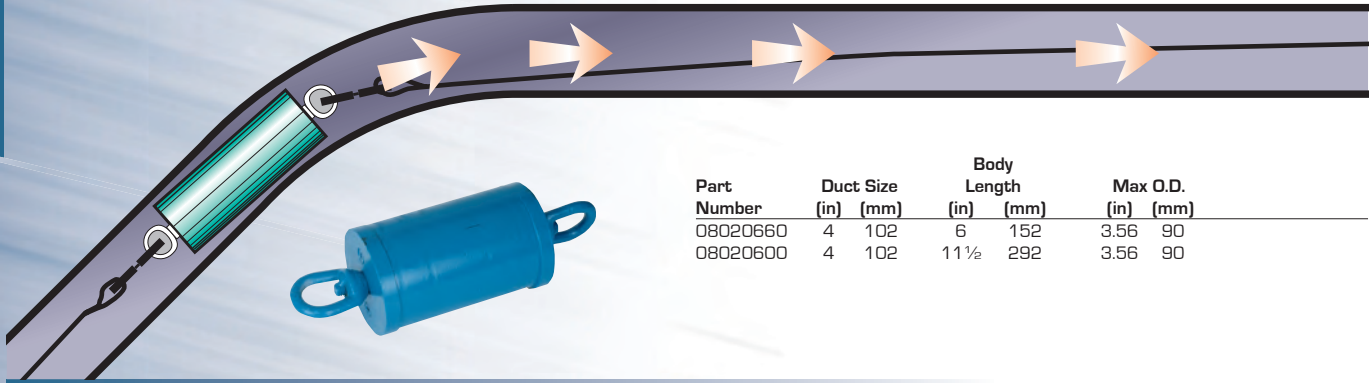


Heavy-duty Tape Stand

Part Number	Description	Maximum Reel Diameter		Maximum Reel Width		Gross Load Capacity	
		(in)	(mm)	(in)	(mm)	(lb)	(kg)
18120100	Single Spool Tape Stand	18	457	15	381	100	45
18120125	Single Spool Tape Stand	24	609	24	609	100	45
18120200	Collapsible Tape Stand	18	457	15	381	100	45
18120225	Collapsible Tape Stand	24	609	24	609	100	45
18120300	Heavy-duty Tape Stand	26	660	15	381	200	91

Wood Test Mandrels

Pull through duct to prove joint integrity and test for out-of-round duct. 2,240 lbs. [9,964 N] load capacity. Wood body with steel end caps and pulling eyes.



Part Number	Duct Size		Body Length		Max O.D.	
	(in)	(mm)	(in)	(mm)	(in)	(mm)
08020660	4	102	6	152	3.56	90
08020600	4	102	11 1/2	292	3.56	90

Aluminum Test Mandrels

Pull through duct to prove joint integrity and test for out-of-round duct.



Part Number	Duct Size		Body Length		Max O.D.		Load Capacity	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lbs)	(N)
08059515	1 1/2	38	1.74	44	1.18	30	2,200	9,786
08059520	2	51	2.40	61	1.62	41	2,200	9,786
08059525	2 1/2	64	2.98	76	2.00	51	2,200	9,786
08059530	3	76	3.50	89	2.37	61	2,200	9,786
08059535	3 1/2	89	4.10	104	2.75	70	4,500	20,016
08059540	4	102	4.84	123	3.25	83	4,500	20,016
08059550	5	127	5.98	152	4.00	102	4,500	20,016
08059560	6	152	7.08	180	4.75	121	4,500	20,016
08059580	8	203	9.44	240	6.375	162	4,500	20,016

Aluminum Test Slugs

Pull through duct to prove joint integrity and test for out-of-round duct.



Part Number	Duct Size		Body Length		Max O.D.		Load Capacity	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lbs)	(N)
08059005	1	25	1.71	43	0.860	22	2,200	9,786
08059015	1 1/4	32	2.17	55	1.086	28	2,200	9,786
08059025	1 1/2	38	2.49	63	1.243	32	2,200	9,786

Rubber Duct Swab

Ideal for cleaning and assisting in the spreading of lubricant throughout the duct. 7,000 lbs. [31,136 N] load capacity.



Part Number	Duct Size		Body Length		Max O.D.	
	(in)	(mm)	(in)	(mm)	(in)	(mm)
08028820*	2	51	10	254	2.00	51
08028830	3	76	10	254	3.00	76
08028700	3 1/2	89	10	254	3.50	89
08028800	4	102	10	254	4.00	102
08058700	5	127	10	254	5.00	127
08058800	6	152	10	254	6.00	152
08028880	8	203	10	254	8.00	203

*4,500 lbs. [20,016 N] load capacity.

Short Rubber Slug

For proving duct integrity and for spreading cable pulling lubricant especially in tight-radius bends. 4,500 lbs. (20,016 N) load capacity.

Part Number	Duct Size		Body Length		Max O.D.	
	(in)	(mm)	(in)	(mm)	(in)	(mm)
08082020	2	51	3.25	83	2.00	51
08082025	2½	64	3.25	83	2.50	64
08082030	3	76	3.25	83	3.00	76
08082035	3½	89	3.25	83	3.50	89
08082040	4	102	3.25	83	4.00	102
08082050	5	127	3.25	83	5.00	127
08082060	6	154	3.25	83	6.00	154
08082080	8	203	3.25	83	8.00	203



FISHING & RODDING

Wire Brush Mandrel

Flat steel bristles with a pulling eye on one end and a loop on the other end. Easily removes sand, grit and other light obstructions from the duct. 800 lbs. (3,558 N) load capacity.

Part Number	Duct Size		Body Length		Overall Length		Max O.D.	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08028904	1¼	32	4.25	108	7.50	191	1.00	25
08028905	1½	38	4.25	108	7.50	191	1.25	32
08028900	2	51	4.25	108	9.16	232	1.75	44
08046000	2½	64	4.25	108	9.16	232	2.25	57
08067100	3	76	5.50	140	9.16	232	2.75	70
08067200	3½	89	5.00	127	9.16	232	3.25	82
08029000	4	102	6.75	171	9.16	232	3.75	95
08029100	5	127	6.50	165	9.16	232	4.75	121
08068100	6	152	6.75	171	9.16	232	5.75	146
08029080	8	203	4.75	121	9.73	247	7.75	197



Heavy Duty Wire Brush Mandrels

Heavy-duty steel bristles with pulling eyes on each end. For removing obstructions from the duct.

Part Number	Duct Size		Body Length		Max O.D.		Load	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lbs)	(N)
08900546	2	51	3.5	89	1.75	44	1,240	5,516
08900547	2½	64	4.25	108	2.25	57	1,240	5,516
08900548	3	76	5.25	133	2.75	70	1,240	5,516
08900549	3½	89	5.25	133	3.25	82	2,240	9,964
08900550	4	102	5.25	133	3.75	95	2,240	9,964
08900551	5	127	5.00	123	4.75	121	2,240	9,964
08900552	6	152	5.00	123	5.75	146	2,240	9,964
08900553	8	203	5.00	123	7.75	196	2,240	9,964

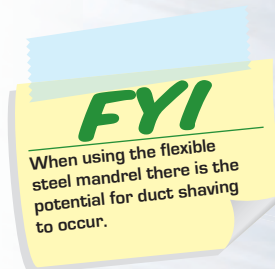


Flexible Steel Mandrel

Steel discs in graduated sizes make this mandrel ideal for removing obstructions in duct with extreme bends. 7,000 lbs. (31,136 N) load capacity.

Part Number	Duct Size		Body Length		Max O.D.	
	(in)	(mm)	(in)	(mm)	(in)	(mm)
08021700	*2	51	7.31	186	1.75	44
08021925	2½	64	11.25	286	2.25	57
08021800	3	76	11.25	286	2.75	70
08049400	3½	89	11.25	286	3.25	83
08067400	4 Sch 80	97	11.25	286	3.50	89
08021900	4	102	11.25	286	3.75	95
08067500	5 Sch 80	114	11.25	286	4.25	108
08058900	5	127	11.25	286	4.75	121
08067600	6 Sch 80	146	11.25	286	5.50	140
08059000	6	152	11.25	286	5.75	146
08079500	8	203	11.25	286	7.75	197

*2,000 lbs. (8,896 N) load capacity.



FYI

When using the flexible steel mandrel there is the potential for duct shaving to occur.



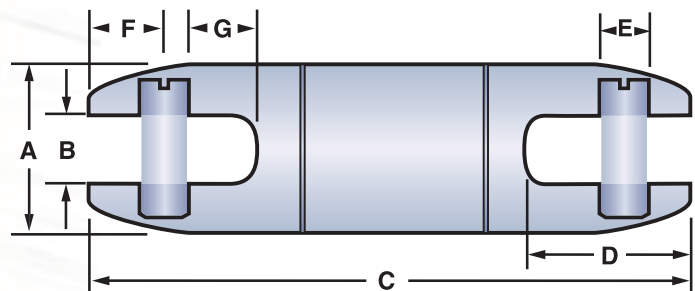
808 Champion Swivels

Designed specifically for underground and overhead cable pulling applications. Can handle all types of utility cables. Precision machined from high-strength stainless steel. Clevis pin is easily replaceable (see ordering information below).

CAUTION: 808 Champion Swivels are to be used for cable stringing or pulling only. 808 Champion Swivels are not to be used for directional drilling.

NOTE: Swivels are not designed to run around bullwheels. Always verify that the swivel size is sized to the pulling harness or grip prior to ordering.

Not Designed for Directional Drilling.



Part Number	Working Load				A		B		C		D		E		F		G	
	*Underground (lbs.)	(N)	**Aerial (lbs.)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08017000	600	2,669	360	1,601	5/8	16	.28	7	3.56	90	.79	20	.25	6	.37	9	.295	7
08016000	2,500	11,120	1,500	6,672	7/8	22	.38	10	4.51	115	1.06	27	.31	8	.53	13	.375	10
08016000H***	2,500	11,120	1,500	6,672	7/8	22	.38	10	4.51	115	1.06	27	.31	8	.53	13	.375	10
08080912	5,000	22,241	3,000	13,344	1 1/4	32	.56	14	5.44	138	1.34	34	.37	9	.59	15	.565	14
08080912H***	5,000	22,241	3,000	13,344	1 1/4	32	.56	14	5.44	138	1.34	34	.37	9	.59	15	.565	14
08080913	7,000	31,137	4,200	18,682	1 3/8	35	.56	14	5.25	133	1.31	33	.44	11	.56	14	.530	13
08080913H***	7,000	31,137	4,200	18,682	1 3/8	35	.56	14	5.25	133	1.31	33	.44	11	.56	14	.530	13
08080916	10,000	44,482	6,000	26,689	1 1/2	41	.63	16	6.51	165	1.59	40	.56	14	.78	20	.530	13
08080916H***	10,000	44,482	6,000	26,689	1 1/2	41	.63	16	6.51	165	1.59	40	.56	14	.78	20	.530	13
08080920	15,000	66,723	9,000	40,033	2	51	.75	19	6.99	178	1.78	45	.62	16	.72	18	.750	18
08080920H***	15,000	66,723	9,000	40,033	2	51	.75	19	6.99	178	1.78	45	.62	16	.72	18	.750	18
08080925	25,000	111,205	15,000	66,723	2 1/2	64	1.00	25	10.23	260	2.80	71	.87	22	1.23	31	1.135	29
08080925H***	25,000	111,205	15,000	66,723	2 1/2	64	1.00	25	10.23	260	2.80	71	.87	22	1.23	31	1.135	29
08080930	30,000	133,446	18,000	80,068	3	76	1.31	33	12.04	306	3.56	90	1.12	28	1.37	35	1.630	41

* 3:1 Safety Factor

** 5:1 Safety Factor

*** Comes standard with hex head clevis pin.

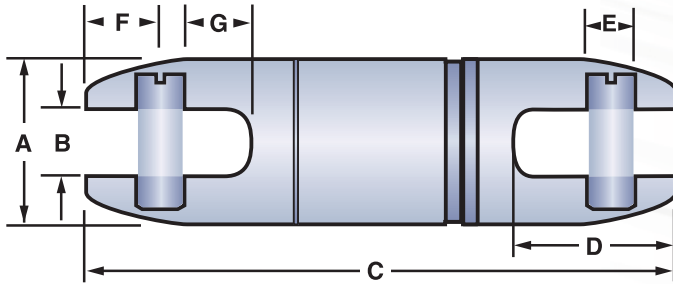
Replacement Clevis Pins for 808 Champion Swivels

Part Number	Replacement Part Number, Slotted	Part Number	Replacement Part Number, Hex
08017000	08017016		
08016000	08955408	08016000H	08081065
08080912	08081046	08080912H	08081042
08080913	08081036	08080913H	21000371
08080916	08081026	08080916H	21000381
08080920	08081016	08080920H	21000391
08080925	08081006	08080925H	21000401
08080930	08081053		



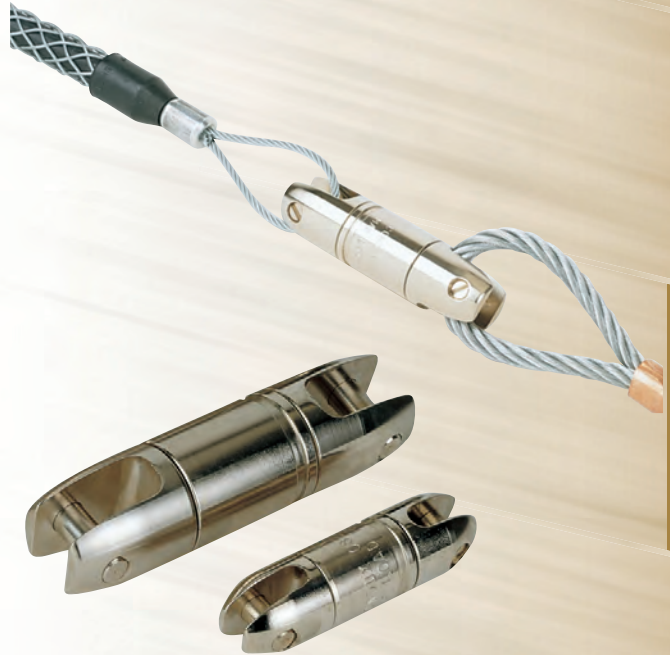
821 Champion Swivels

Designed to meet common dimensional specifications, the 821 Champion Swivels are designed for underground and overhead cable pulling applications and can handle all types of utility cable. Precision machined stainless steel. Clevis pin is easily replaceable (see ordering information below).



CAUTION: To be used for cable stringing or pulling only.

NOTE: Swivels are not designed to run around bullwheels.



SWIVELS &
ACCESSORIES

Part Number	Working Load		A		B		C		D		E		F		G	
	*Underground (lbs.)	(N)	**Aerial (lbs.)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08210007	1,800	8,006	1,080	4,804	7/8	22	.31	8	3.09	78	.84	21	.31	8	.38	10
08210012	4,000	17,792	2,400	10,675	1 1/4	32	.59	15	4.52	115	1.22	31	.38	10	.44	11
08210014	7,500	33,360	4,500	20,016	1 7/16	37	.59	15	5.13	130	1.41	36	.44	11	.59	15
08210018	10,000	44,480	6,000	26,689	1 7/8	48	.75	19	7.06	179	1.88	48	.63	16	.81	21

* 3:1 Safety Factor

** 5:1 Safety Factor

Replacement Clevis Pins for 821 Champion Swivels

Part Number	Replacement Part Number
08210007	08210105
08210012	08210115
08210014	08210125
08210018	08210135



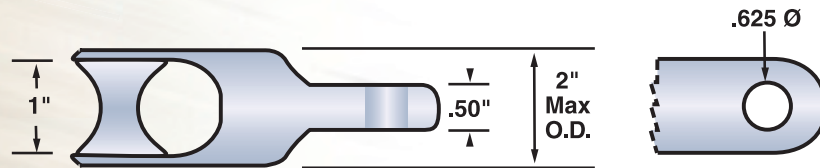
Rope to Swivel Clevis

Used to connect the swivel to rope up to 1" (25 mm) in diameter. To be used with 1 1/4", 1 3/8", 1 5/8" & 2" 808 Champion Swivels. Precision machined stainless steel.

Part Number	Size		Max O.D.		Load Rating	
	(in)	(mm)	(in)	(mm)	(lbs)	(N)
08091230	1 1/4-2	32-51	2	51	10,000	44,480

Replacement Pin and Roller:

Part Number	
08091221	Roller
08091222	Pin



Rope to Rope/Grip Clevis

Versatile clevis provides efficient link for several applications. Stainless steel construction with 10,000 lbs. (44,480 N) load capacity. Combinations of sheaves and pins allow the following connections:

- 7/8" (22 mm) diameter rope to 7/8" (22 mm) diameter rope
- Rope to forged eye pulling grip
- Forged eye pulling grip to forged eye pulling grip
- Rope to flexible eye pulling grip

Part Number	Max O.D.	
	(in)	(mm)
08091200	1 3/4	44

Replacement Pin and Roller:

Part Number	
08091221	Roller
08091201	Pin

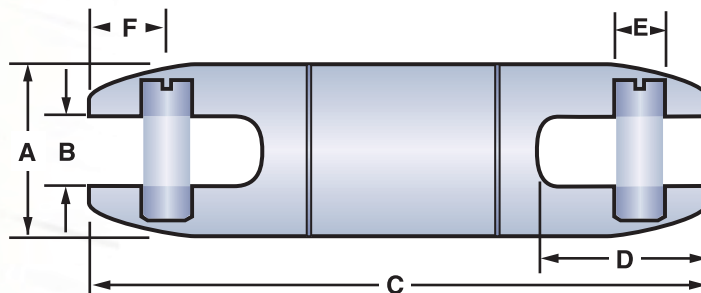
Swivel Compatibility Chart						
Swivel Part Number	Swivel Size (in) (mm)	Pulling Eye Size Range		Eye to Eye Connectors Size Part Number (Page 53)	Pulling Harnesses	
		Standard Head Reusable Power Pulling Eyes Cable Size (Page 75)	Fixed Head Innerduct Pulling Eyes Part Number (Page 72)		Separate Leg Ends (Page 53)	Large Front Link Size Part Number (Page 53)
08017000	5/8 (16)	-	-	-	1/8, 1/4	-
08016000	7/8 (22)	1/0-4/0 AWG	-	-	1/8, 1/4	-
08080912	1 1/4 (32)	All	08914110, 08914120, 08914130, 08914140	(3/8") 08050300 (1/2") 08050500	All	(1/8"-08549200) (1/4"-08549230, 08549325, 08569910, 08549326) (1/2"-08549331)
08080913	1 3/8 (35)	All	08914110, 08914120, 08914130, 08914140	(3/8") 08050300	All	(1/8"-08549200) (1/4"-08549230, 08549325, 08569910, 08549326) (1/2"-08549331)
08080916	1 5/8 (41)	250-2,500 kcmil	-	(3/8") 08050300 (1/2") 08050500	All	(1/8"-08549200) (1/4"-08549230, 08549325, 08569910, 08549326) (1/2"-08549331)
08080920	2 (51)	250-2,500 kcmil	-	All	All	(1/8"-08549200) (1/4"-08549230, 08549325, 08569910, 08549326) (1/2"-08549331)
08080925	2 1/2 (64)	-	-	(1/2") 08050500 (5/8") 08050501	All Cables	All
08080930	3 (76)	-	-	(1/2") 08050500 (5/8") 08050501	All Cables	All
08210007	7/8 (22)	-	-	-	1/8, 1/4	-
08210012	1 1/4 (32)	All	All	(3/8") 08050300 (1/2") 08050500	All	(1/8"-08549200) (1/4"-08549230, 08549325, 08569910, 08549326) (1/2"-08549331)
08210014	1 7/16 (37)	All	08914110, 08914120, 08914130, 08914140, 08914150, 08914160	(3/8") 08050300 (1/2") 08050500	All	(1/8"-08549200) (1/4"-08549230, 08549325, 08569910, 08549326) (1/2"-08549331)
08210018	1 7/8 (48)	250-2,500 kcmil	-	All	All	(1/8"-08549200) (1/4"-08549230, 08549325, 08569910, 08549326) (3/8"-08549333, 08549329) (1/2"-08549331)



U. S. Patent No. 4,687,365.

Break-Away Swivel

Essential for fiber optic and coaxial cable pulling, these swivels have a break load ranging from 150–1,800 pounds (667–8,006 N) and are designed to separate at $\pm 10\%$ of their rated break load. If the load rating is exceeded, the interior break pin fractures, the swivel separates, and the cable remains undamaged. Break pin is easily replaceable (see ordering information, next page).



Break-Away Swivel Dimensions

A	B	C	D	E	F
(in) (mm)	(in) (mm)	(in) (mm)	(in) (mm)	(in) (mm)	(in) (mm)
$\frac{5}{8}$ 16 .28 7 3.56 90 .79 20 .25 6 .37 9					
$\frac{7}{8}$ 22 .38 10 4.51 115 1.06 27 .31 8 .53 13					

$\frac{5}{8}$ " Swivel (16 mm)

Part Number	Break Load	
	(lbs)	(N)
08017300	200	890
08017400	250	1,112
08017800	300	1,334
08016900	450	2,002
08017200	600	2,669
08017500	650	2,891
08017900	750	3,336

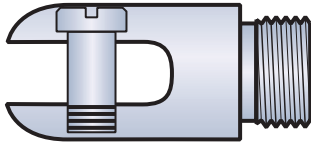
$\frac{7}{8}$ " Swivel (22 mm)

Part Number	Break Load	
	(lbs)	(N)
08018100	150	667
08018300	200	890
08018000	250	1,112
08017600	300	1,334
08018400	350	1,557
08075300	400	1,779
08015800	450	2,002
08076500	500	2,224
08018500	550	2,446
08015000	600	2,669
08018600	650	2,891
08076000	700	3,114
08075500	750	3,336
08018700	800	3,558
08018800	850	3,781
08076600	900	4,003
08015700	1,000	4,448
08018900	1,100	4,893
08015200	1,200	5,338
08019100	1,300	5,782
08074600	1,400	6,227
08076900	1,500	6,672
08019200	1,600	7,117
08019300	1,700	7,562
08017700	1,800	8,006

NOTE: Swivels are not designed to run around bullwheels.

Replacement Pins

Break pins for Condux Break-Away Swivels are easy to order and ready to ship.



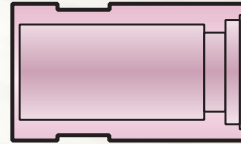
Externally
Threaded Head



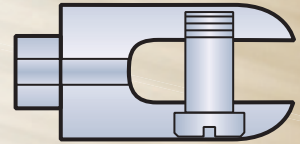
Break Pin



Bearings



Body



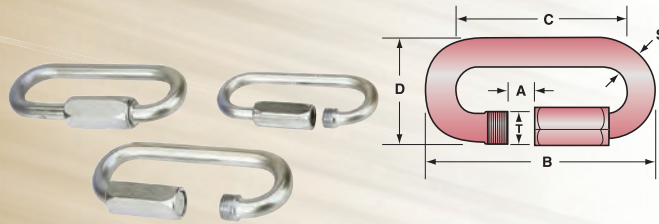
Internally
Threaded Head

Replacement Pins for 5/8" (16 mm) Swivel

Part Number	Break Load		Color
	(lbs)	(N)	
08017305	200	890	Green/Black
08017405	250	1,112	Blue/White
08017805	300	1,334	Blue/Violet
08016905	450	2,002	Blue/Yellow
08017205	600	2,669	Orange/Black
08017505	650	2,891	Brown/White
08017905	750	3,336	Orange/Violet

Replacement Pins for 7/8" (22 mm) Swivel

Part Number	Break Load		Color
	(lbs)	(N)	
08018105	150	667	Slate/Violet
08018305	200	890	Green/Orange
08018005	250	1,112	Blue/White
08017605	300	1,334	Brown/Red
08018405	350	1,557	Black/Green
08075305	400	1,779	Blue/Black
08015805	450	2,002	Blue/Yellow
08076505	500	2,224	Orange/Red
08018505	550	2,446	Blue/Green
08015005	600	2,669	Orange/Black
08018605	650	2,891	Slate/Green
08076005	700	3,114	Orange/White
08075505	750	3,336	Orange/Violet
08018705	800	3,781	Red/Yellow
08018805	850	3,781	Black/Yellow
08076605	900	4,003	Orange/Yellow
08015705	1,000	4,448	Green/White
08018905	1,100	4,893	White/Yellow
08015205	1,200	5,338	Brown/White
08019105	1,300	5,782	Brown/Yellow
08074605	1,400	6,227	Green/Red
08076905	1,500	6,672	Green/Yellow
08019205	1,600	7,117	Black/White
08019305	1,700	7,562	Red/White
08017705	1,800	8,006	Brown/Black



Threaded Chain Connectors

Offer a quick and easy way to connect pulling eyes or swivels to winch lines, harnesses or rope. To close, simply screw the nut onto the threaded end. Connectors are reusable.

Note: To be used for cable stringing or pulling only.

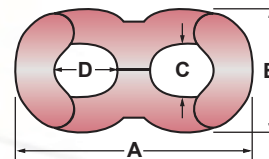
Part Number	Work Load Limit		Stock Diameter S		Threaded Shaft T		A		B		C		D	
	(lbs)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08581212	200	890	0.125	3.2	0.20	5	0.375	9.5	1.813	46.0	1.563	40	0.79	20
08581218	550	2,446	0.188	4.8	0.27	7	0.500	12.7	2.438	61.9	2.063	52	1.06	27
08581225	770	3,425	0.250	6.4	0.35	9	0.563	14.3	2.750	69.9	2.313	59	1.17	30
08581231	1,430	6,361	0.313	7.9	0.43	11	0.688	17.5	3.438	87.3	2.813	71	1.57	40
08581237	1,760	7,828	0.375	9.5	0.47	12	0.750	19.1	3.750	95.3	3.000	76	1.68	43
08581250	2,755	12,254	0.500	12.7	0.60	15	0.938	23.8	4.875	123.8	3.938	100	2.16	55
08581256	4,410	19,616	0.563	14.3	0.67	17	1.063	27.0	5.563	141.3	4.500	114	2.39	61
08581262	5,510	24,508	0.625	15.9	0.74	19	1.125	28.6	6.313	160.3	5.063	129	2.73	69
08581268	6,615	29,424	0.688	17.5	0.86	22	1.250	31.8	6.938	176.2	5.500	140	3.04	77
08581278	7,935	35,295	0.781	19.8	0.93	24	1.375	34.9	7.813	198.4	6.250	159	3.33	85

Threaded Chain Connector Compatibility Chart

Chain Connector Part Number	Size in (mm)	Pulling Eye Size Range		Eye to Eye Connectors Size	Pulling Harnesses	
		Standard Head Reusable Power Pulling Eyes Cable Size	Fixed Head Innerduct Pulling Eyes Duct I.D. in (mm)		Separate Leg Ends	Large Front Link
08581212	1/8 (3)	1/0-4/0 AWG	---	---	1/8, 1/4	---
08581218	3/16 (5)	1/0-4/0 AWG, 700, 750 kcmil	All	3/8	1/8, 1/4, 3/8	1/8
08581225	1/4 (6)	1/0-4/0 AWG, 350, 700, 750 kcmil	All	3/8, 1/2	1/8, 1/4, 3/8	1/8
08581231	5/16 (8)	All	All	All	All Cable	1/8, 3 x 1/4, 2 x 1/2, Chain
08581237	3/8 (10)	All	All	All	All Cable	1/8, 1/4, 3 & 4 x 3/8, 2 x 1/2, Chain
08581250	1/2 (13)	250-2,500 kcmil	---	All	All	All
08581256	9/16 (14)	350, 500, 1,000-2,500 kcmil	---	All	All	All
08581262	5/8 (16)	350, 500, 1,000-2,500 kcmil	---	All	All	All
08581268	11/16 (17)	1,000-2,500 kcmil	---	All	All	All
08581278	7/8 (22)	1,000-2,500 kcmil	---	All	All	All

Figure 8 Swing Link

For quick connections to winch line or pulling harnesses.



Note: To be used for cable stringing or pulling only.

Part Number	Size		Working Load		A Length		B Width		C Eye ID		D Eye ID	
	(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08580825	1/4	6	540	2,402	1.94	49	.94	24	.38	10	.50	13
08580837	3/8	10	900	4,003	2.90	74	1.31	33	.50	13	.63	16
08580850	1/2	13	1,620	7,206	3.25	83	1.63	41	.69	18	.75	19
08580875	3/4	19	3,600	16,013	5.00	127	2.50	64	.94	24	1.13	29
08580899	1	25	8,100	36,029	6.50	165	3.25	83	1.25	32	1.50	38

Swing Link Compatibility Chart

Swing Link Part Number	Size in (mm)	Pulling Eye Size Range Standard Head Reusable Power Pulling Eyes Cable Size	Fixed Head Innerduct Pulling Eyes Duct I.D. in (mm)	Eye to Eye Connectors Size	Pulling Harnesses	
					Separate Leg Ends	Large Front Link
08580825	1/4 (6)	---	---	---	1/8, 1/4	---
08580837	3/8 (10)	500, 700, 750 kcmil	---	3/8	1/8, 1/4, 3/8, Chain	---
08580850	1/2 (13)	350, 500, 1,000-2,500 kcmil	---	3/8, 1/2	All Cable	2 x 1/2
08580875	3/4 (19)	1,000-2,500 kcmil	---	All	All Cable	1/8, 1/4, 3/8, 2 x 1/2, Chain
08580899	1 (25)	---	---	1/2, 5/8	All Cable	All

Multiple Pulling Harness

Allows staggered attachment to cable or innerduct when pulling through conduit systems or during directional drilling pull-back operations. **Other harness combinations available upon request. Contact factory for details.**

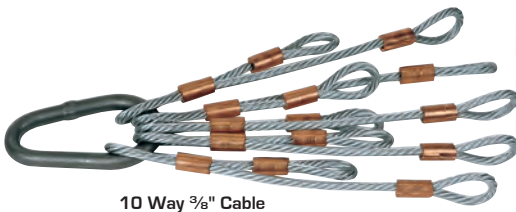
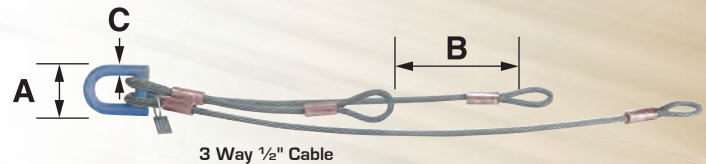
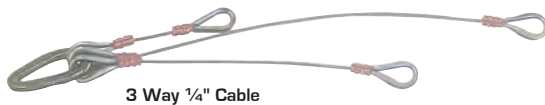
FYI

Other multiple pulling harness combinations available upon request. Contact factory for details.

Part Number	Description	Working Load Per Leg		Working Load Combined		Max. Width A		Separation Between Legs B		Lead Ring Dia. C	
		(lbs)	(N)	(lbs)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08549200	3 Way 1/8" (3 mm) Cable	550	2,446	1,600	7,117	2.25	57	14	356	.37	10
08549230	3 Way 1/4" (6 mm) Cable	2,300	10,230	2,900	12,899	2.00	51	14	356	.37	13
08549325	4 Way 1/4" (6 mm) Cable	2,300	10,230	4,200	18,682	2.00	51	14	356	.37	10
08569910	5 Way 1/4" (6 mm) Cable	2,300	10,230	4,200	18,682	2.00	51	14	356	.37	10
08549326	6 Way 1/4" (6 mm) Cable	2,300	10,230	4,200	18,682	2.00	51	14	356	.37	10
08549333	3 Way 3/8" (10 mm) Cable	4,800	21,351	9,000	40,032	2.63	67	10	254	.62	16
08549329	4 Way 3/8" (10 mm) Cable	4,800	21,351	9,000	40,032	2.63	67	10	254	.62	16
08549330	10 Way 3/8" (10 mm) Cable	4,800	21,351	6,000	26,689	4.50	114	6	152	.75	19
08549334	12 Way 3/8" (10 mm) Cable	4,800	21,351	6,000	26,689	4.50	114	6	152	.75	19
08549342	16 Way 3/8" (10 mm) Cable	4,800	21,351	6,000	26,689	4.50	114	6	152	1.00	25
08549331	2 Way 1/2" (13 mm) Cable	7,000	31,136	10,000	44,480	2.50	64	12	305	.50	13
08549332	3 Way 1/2" (13 mm) Cable	7,000	31,136	15,000	66,720	3.75	95	12	305	.87	22
08549340	4 Way 1/2" (13 mm) Cable	7,000	31,136	15,000	66,720	3.75	95	12	305	.87	22

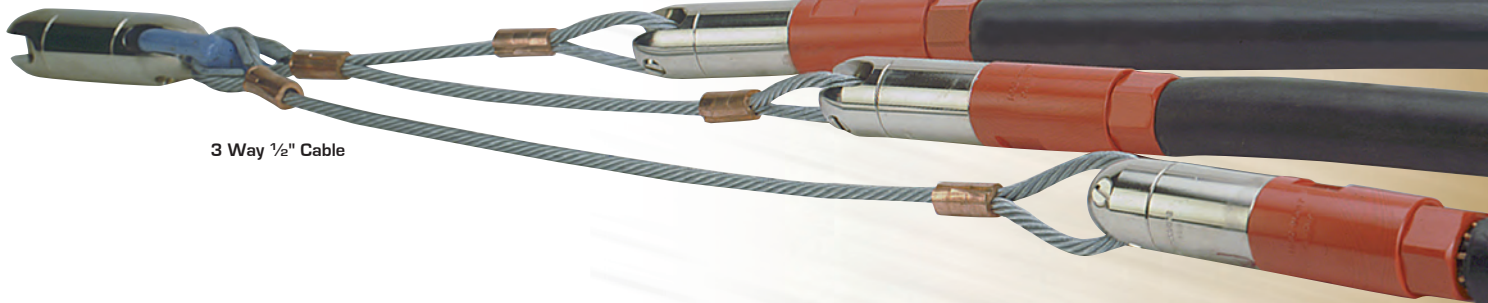
NOTE: 10 & 12 Way 3/8" (10 mm) harnesses only have a single stagger. All other harnesses are sequentially staggered.

SWIVELS & ACCESSORIES



FYI

See swivel compatibility chart on page 49 to match up your multiple pulling harness with your swivels.



Eye to Eye Connectors

Light duty winch line pulling connector drop forged from C-1035 steel. Hot dip galvanized.

Part Number	Size		Working Load	
	(in)	(mm)	(lbs)	(N)
08050300	3/8	10	2,200	9,786
08050500	1/2	13	3,600	16,013
08050501	3/4	16	5,200	23,130

NOTE: To be used for cable stringing or pulling only.





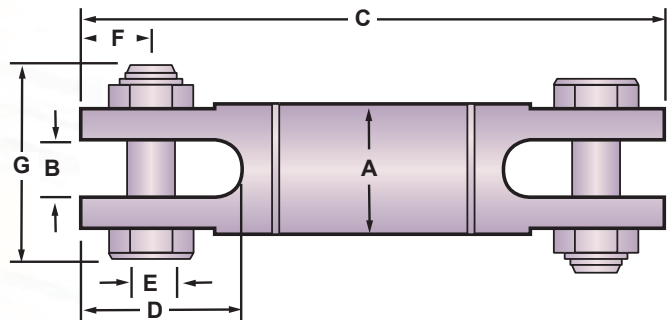
U.S. Patent No. 5,607,248.

819 D.Drill® Directional Drilling Swivels

Designed specifically for directional drilling, the Condux 819 D.Drill Swivels prevent boring equipments' rotational torque from interfering with the product (cable or conduit) being pulled. The D.Drill Swivels are greasable and double sealed to keep contaminants out. Clevis pins with hex nuts allow for installation and removal from either side of the swivel. There is a 90 day warranty on the directional drill swivels.

CAUTION: To be used for directional drilling only.

CAUTION: Condux requires the use of a calcium based lubricant only. Other lubricants may have adverse reactions when exposed to bentonite products. Condux requires that the swivels be flushed with grease after each use to purge any contaminants that may have penetrated past the seals into the swivel while boring. See page 56 for calcium based lubricants.



Part Number	Working Load				A		B		C		D		E		F		G	
	Tension		Compression		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08190016	8,500	37,808	2,800	12,454	1⅝	41	.63	16	6.85	174	1.59	40	.56	14	.78	20	2.36	60
08190020	10,000	44,480	3,300	14,678	2	51	.75	19	7.83	199	1.81	46	.63	16	.75	19	2.89	73
08190025	20,000	88,960	6,600	29,357	2½	64	1.00	25	10.93	278	2.84	72	.88	22	1.25	32	3.67	93
08190030	30,000	133,440	10,000	44,480	3	76	1.31	33	12.75	324	3.56	90	1.13	29	1.37	36	4.50	114
08190040	45,000	200,160	15,000	66,720	4	102	1.63	41	15.25	387	4.00	102	1.25	32	1.84	47	5.58	142
08190045	60,000	266,880	20,000	88,960	4⅝	117	1.75	44	17.48	444	4.62	117	1.50	38	2.13	54	6.31	160
08190060	90,000	400,320	30,000	133,440	6	152	2.00	51	18.27	464	4.50	114	1.75	44	2.18	56	6.59	167
08190080	120,000	533,760	40,000	177,920	8	203	2.25	57	21.71	552	5.25	133	2.00	51	2.50	64	8.25	210

819 D.Drill® Replacement Parts



Swivel Size	Clevis Pin	Locking Nut
1 5/8 (41 mm)	08190104	02250500
2 (51 mm)	08190114	02250600
2 1/2 (64 mm)	08190124	02250700
3 (76 mm)	08190134	02250800
4 (102 mm)	08190154	02263000
4 5/8 (117 mm)	08190144	02250900
6 (152 mm)	08190164	02251000
8 (203 mm)	08190167	02279000

400 D.Drill® Directional Drilling Swivels

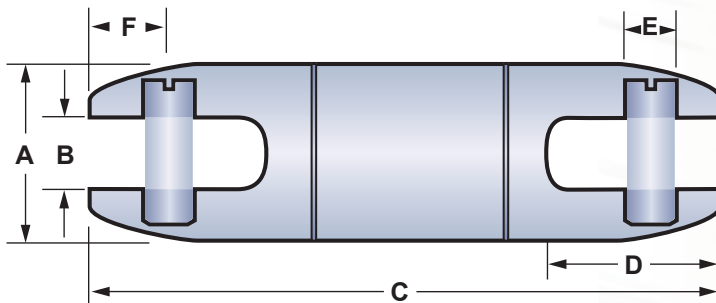
Designed specifically for directional drilling, the Condux 400 D.Drill Swivels prevent boring equipments' rotational torque from interfering with the product (cable or conduit) being pulled. The D.Drill Swivels are greasable and double sealed to keep contaminants out. There is a 90 day warranty on the directional drill swivels.

CAUTION: To be used for directional drilling and underground cable installation only.

CAUTION: Condux requires the use of a calcium based lubricant only. Other lubricants may have adverse reactions when exposed to bentonite products. Condux requires that the swivels be flushed with grease after each use to purge any contaminants that may have penetrated past the seals into the swivel while boring.



SWIVELS &
ACCESSORIES



Part Number	Working Load				A		B		C		D		E		F	
	Tension (lbs)	(N)	Compression (lbs)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08190408	1,800	6,588	595	2,177	7/8	22	.38	9	4.83	122	1.03	26	.31	8	.53	13
08190412	4,000	14,641	1,300	4,758	1 1/4	32	.56	14	6.57	166	1.34	34	.37	9	.59	15
08190416	8,500	37,808	2,800	12,454	1 5/8	41	.63	16	7.22	183	1.59	40	.56	14	.78	19
08190420	10,000	44,480	3,300	14,678	2	51	.75	19	8.29	210	1.77	45	.63	16	.71	18
08190425	20,000	88,960	6,600	29,357	2 1/2	64	1.00	25	11.44	290	2.79	71	.88	22	1.23	31
08190430	30,000	133,440	10,000	44,480	3	76	1.31	33	13.27	337	3.56	90	1.13	28	1.37	34

400 D.Drill Replacement Parts

Part Number	Clevis Pin
08190408	08081065
08190412	08081042
08190416	21000381
08190420	21000391
08190425	21000401
08190430	08190539





Directional Drilling Grease

Specially formulated for use in a bentonite clay environment. This is an extreme pressure multiservice lubricant designed to give outstanding performance in directional drilling/boring applications. Manufactured from the highest quality petroleum oil and thickened with a unique calcium complex soap. This thickener resists breakdown caused by bentonite, which is common with lithium based lubricants. Packaged in cartridges to fit a standard grease gun.

Part Number	Description
08190007	Directional Drilling Grease (1 Cartridge)

D.Drill Swivels & PE & PVC Pulling Eye Compatibilty Chart

Swivel		PE & PVC Pulling Eye	
Part Number	Size in (mm)	Part Number	Size In (mm)
08190016	1 5/8 (41)	08220600 - 08220603	1 1/4 (32), 1 1/2 (38), 2 1/4 (57), 2 1/2 (63), 3 (76)
08190020	2 (51)	08220600 - 08220603	1 1/4 (32), 1 1/2 (38), 2 1/4 (57), 2 1/2 (63), 3 (76)
08190025	2 1/2 (64)	08220609 - 08220608	2 1/2 (63), 3 (76), 4 (102), 5 (127), 6 (152), 7 (178), 8 (203)
08190030	3 (76)	-	-
08190040	4 (102)	08220604 - 08220606	4 (102), 5 (127), 6 (152)
08190045	4 5/8 (117)	08220604 - 08220606	4 (102), 5 (127), 6 (152)
08190060	6 (152)	-	-
08190080	8 (203)	-	-



Break-Away Swivels for Directional Drilling

Avoid overstressing cable or conduit being pulled in during directional drilling operations. The Condux Break-Away Swivels for directional drilling are designed exclusively to provide **both** the swivel and the break link for product pull-back. Eliminate the use of two or more components and shorten the gap between the reamer and pulling eye. No need to use "weak link" pipe sections or wire when using the Condux Break-Away Swivel.

Six different diameter swivels are available to accommodate various pulling needs. Break loads range from 1,200 lbs. (5,338 N) to 25,000 lbs. (111,250 N) and are designed to separate at $\pm 10\%$ of their rated break load. Order Replacement Pins as needed.

NOTE: D.Drill Swivels come with a 90 day limited warranty.

***WARNING:** These swivels to be used while Directional Drilling only—Severe personal injury could result if used with rope or steel winch lines in cable pulling applications.

1 1/4" Swivel (32 mm)

Part Number	Break Load	
	(lbs)	(N)
08021500*	1,200	5,338
08019400*	1,900	8,451
08019500*	2,000	8,896
08019600*	2,500	11,120
08019700*	3,000	13,344
08076100*	3,400	15,123
08019800*	4,000	17,792

1 3/8" Swivel (35 mm)

Part Number	Break Load	
	(lbs)	(N)
08019900*	4,500	20,016
08021300*	5,000	22,240
08022100*	5,500	24,464
08024200*	6,000	26,688
08024400*	6,500	28,912

1 5/8" Swivel (41 mm)

Part Number	Break Load	
	(lbs)	(N)
08024500*	7,000	31,136
08025500*	7,500	33,360
08027900*	8,000	35,584
08028400*	8,500	37,808

2" Swivel (51 mm)

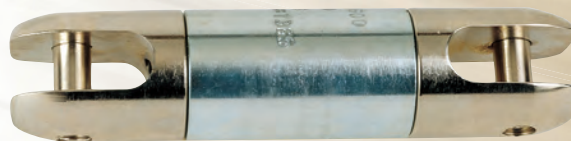
Part Number	Break Load	
	(lbs)	(N)
08029200*	9,000	40,032
08029400*	10,000	44,480

2 1/2" Swivel (64 mm)

Part Number	Break Load	
	(lbs)	(N)
08029600*	12,000	53,376
08029700*	14,000	62,272

3" Swivel (76 mm)

Part Number	Break Load	
	(lbs)	(N)
08075600*	18,500	82,288
08075800*	22,000	97,856
08075820*	25,000	111,250



Break-Away D.Drill® Swivel
1 1/4" - 1 3/8"

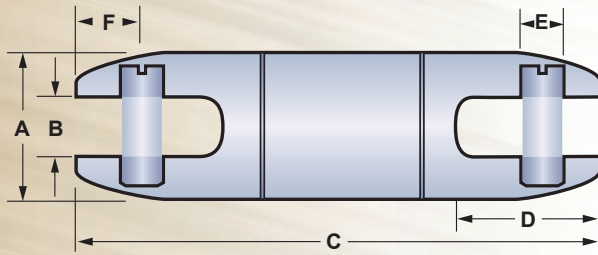
U.S. Patent No. 4,687,365.



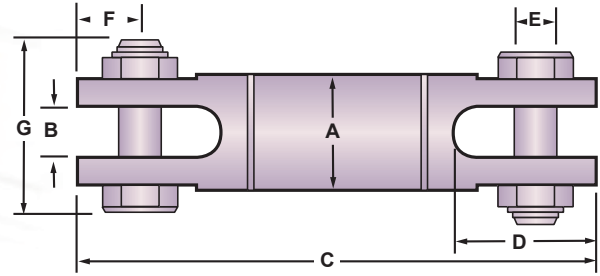
Break-Away D.Drill® Swivel
1 5/8" - 3"

U.S. Patent No. 4,687,365.

U.S. Patent No. 5,607,248.

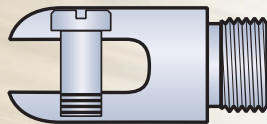


Use these dimensions when ordering the 1¼" (32 mm) and the 1½" (35 mm) swivels.

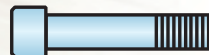


Use these dimensions when ordering the 1⅝" (41 mm), the 2" (51 mm), the 2½" (64 mm) and the 3" (76 mm) swivels.

	A		B		C		D		E		F		G	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
1¼	.32	8.13	.56	14.22	5.44	138.27	1.34	34.02	.37	9.39	.59	15.00	-	-
1½	.35	8.89	.56	14.22	5.25	133.02	1.31	33.27	.44	11.18	.56	14.22	-	-
1⅝	.41	10.41	.63	16.01	6.85	174.00	1.59	40.23	.56	14.22	.78	19.81	2.36	60.01
2	.51	12.95	.75	19.05	7.83	199.00	1.81	45.96	.63	16.01	.75	19.05	2.89	73.30
2½	.64	16.26	1.00	25.40	10.93	278.00	2.84	72.14	.88	22.38	1.25	31.75	3.67	93.30
3	.76	19.30	1.31	33.27	12.75	324.00	3.56	90.48	1.13	28.70	1.37	34.80	4.50	114.30



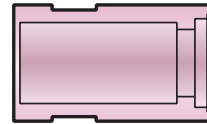
Externally
Threaded Head



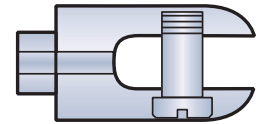
Break Pin



Bearings



Body



Internally
Threaded Head

Replacement Pins For Break-Away Directional Drilling Swivels

Part Number	Break Load		Break Pin Color Code
	(lbs)	(N)	
08021505	1,200	5,338	Brown/White
08019405	1,900	8,451	Violet/Black
08019505	2,000	8,896	Slate/White
08019605	2,500	11,120	Violet/Green
08019705	3,000	13,344	Slate/Red
08076105	3,400	15,123	Blue/Yellow
08019805	4,000	17,792	Red/Yellow
08019905	4,500	20,016	Slate/Yellow
08021305	5,000	22,240	Orange/Blue
08022105	5,500	24,464	Brown/Green
08024205	6,000	26,688	Blue/Brown
08024405	6,500	28,912	Red/Blue
08024505	7,000	31,136	Orange
08025505	7,500	33,360	Blue
08027905	8,000	35,584	Yellow
08028405	8,500	37,808	Slate
08029205	9,000	40,032	Red
08029405	10,000	44,480	Green
08029605	12,000	53,376	White
08029705	14,000	62,272	Brown
08029720	18,500	82,288	Black
08075805	22,000	97,856	Yellow
08075825	25,000	111,250	Blue
08075945	40,000	178,000	Orange

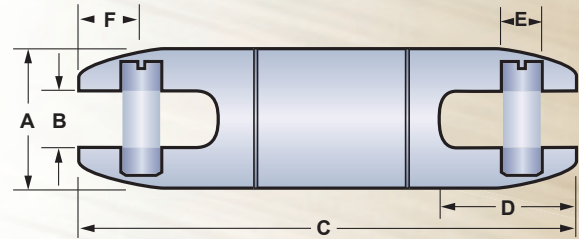
7/8" Break-Away Swivel for Directional Drilling

Avoid overstressing cable or conduit being pulled in during directional drilling operations. The Condux 7/8" Break-Away Swivel for directional drilling is designed exclusively to provide **both** the swivel and the break link for product pull-back. Eliminate the use of two or more components and shorten the gap between the reamer and pulling eye. No need to use "weak link" pipe sections or wire when using the 7/8" Condux Break-Away Swivel.

This swivel is available to accommodate various pulling needs. Break loads range from 150 lbs. (667 N) to 1,800 lbs. (8,006 N) and are designed to separate at $\pm 10\%$ of their rated break load. Order Replacement Pins as needed.

NOTE: D.Drill Swivels come with a 90 day limited warranty.

***WARNING:** This swivel is to be used while Directional Drilling only—Severe personal injury could result if used with rope or steel winch lines in cable pulling applications.



7/8" Break-Away Swivel Dimensions

A		B		C		D		E		F	
(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
7/8	22	.38	9	4.83	122	1.03	26	.31	8	.53	13

7/8" Swivel (22 mm)		
Part Number	Break Load	
	(lbs)	(N)
08021015	150	667
08021020	200	890
08021025	250	1,112
08021030	300	1,334
08021035	350	1,557
08021040	400	1,779
08021045	450	2,002
08021050	500	2,224
08021055	550	2,446
08021060	600	2,669
08021065	650	2,891
08021070	700	3,114
08021075	750	3,336
08021080	800	3,559
08021085	850	3,781
08021090	900	4,003
08021100	1,000	4,448
08021110	1,100	4,893
08021120	1,200	5,338
08021130	1,300	5,782
08021140	1,400	6,227
08021150	1,500	6,672
08021160	1,600	7,117
08021170	1,700	7,562
08021180	1,800	8,006

Replacement Pins for 7/8" swivel (22 mm) Swivel			
Part Number	Break Load		Color
	(lbs)	(N)	
08018105	150	667	Slate/Violet
08018305	200	890	Green/Orange
08018005	250	1,112	Blue/White
08017605	300	1,334	Brown/Red
08018405	350	1,557	Black/Green
08075305	400	1,779	Blue/Black
08015805	450	2,002	Blue/Yellow
08076505	500	2,224	Orange/Red
08018505	550	2,446	Blue/Green
08015005	600	2,669	Orange/Black
08018605	650	2,891	Slate/Green
08076005	700	3,114	Orange/White
08075505	750	3,336	Orange/Violet
08018705	800	3,559	Red/Yellow
08018805	850	3,781	Black/Yellow
08076605	900	4,003	Orange/Yellow
08015705	1,000	4,448	Green/White
08018905	1,100	4,893	White/Yellow
08015205	1,200	5,338	Brown/White
08019105	1,300	5,782	Brown/Yellow
08074605	1,400	6,227	Green/Red
08076905	1,500	6,672	Green/Yellow
08019205	1,600	7,117	Black/White
08019305	1,700	7,562	Red/White
08017705	1,800	8,006	Brown/Black



PULLING GRIPS

Pulling Grips

Pulling Grips offer excellent means of pulling electrical cable, bare conductors, copper telephone cable or rope through conduit. Grips are made of high-quality galvanized steel strand to assure long life. Under normal conditions, the grips should be used with a safety factor of five, but this will vary depending on the situation. The tension, diameter, movement, number of objects gripped, gripping surface and the attachments used are some of the variables affecting the safety factor. In addition, the effects of abrasion, corrosion, prior use or misuse must be considered and the grip replaced when necessary. The safety factor is ultimately determined by the user.

Fiber Optic Pulling Grips are also available. They feature a special weave that provides positive holding power while allowing the grip to remain flexible, ensuring cable protection.

Additional sizes & support grips are available, please contact Condux Customer Service for assistance.



Select The Correct Grip

Each grip is designed to work on a specific range of cable diameters.

Step 1: Determine your cable outside diameter.

Step 2: Find the grip size that encompasses your cable diameter.

Step 3: Whenever possible, use a closed mesh that assembles over the cable end. If the cable end is not available, use a split mesh.

Step 4: Where available, select an eye style that suits your needs.

Step 5: Estimate the tension to be put on the grip, establish the working load you require and compare this to the listed approximate breaking strength of the grip to ensure that the grip will be strong enough.

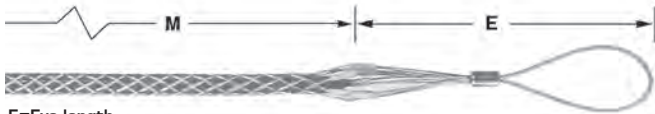


PULLING EYES
& ACCESSORIES

Calculating grip size for multiple cables of same diameter

Number of Cables In Bundle								Grip Diameter Range in (mm)
	2	3	4	5	6 & 7	8	9	
Individual Cable Diameter Range	.30-.38 (8-10)	.25-.31 (6-8)	.22-.27 (6-7)	.19-.24 (5-6)	.17-.22 (4-6)	.15-.19 (4-5)	.14-.18 (3-4)	.50-.61 (13-15)
	.38-.44 (10-11)	.31-.36 (8-9)	.27-.31 (7-8)	.24-.29 (6-7)	.22-.26 (6-7)	.19-.23 (5-6)	.18-.21 (4-5)	.62-.74 (16-19)
	.44-.59 (11-15)	.36-.49 (9-12)	.31-.42 (8-11)	.29-.38 (7-10)	.26-.34 (7-9)	.23-.31 (6-8)	.21-.28 (5-7)	.75-.99 (19-25)
	.59-.75 (15-19)	.49-.63 (12-16)	.42-.54 (11-14)	.38-.48 (10-12)	.34-.43 (9-11)	.31-.39 (8-10)	.28-.35 (7-9)	1.00-1.24 (25-31)
	.75-.90 (19-23)	.63-.76 (16-19)	.54-.65 (14-17)	.48-.58 (12-15)	.43-.52 (11-13)	.39-.46 (10-12)	.35-.42 (9-11)	1.25-1.49 (31-38)
	.90-1.07 (23-27)	.76-.89 (19-23)	.65-.77 (17-19)	.58-.67 (15-17)	.52-.60 (13-15)	.46-.54 (12-14)	.42-.49 (11-12)	1.50-1.74 (38-44)
	1.07-1.22 (27-31)	.89-1.02 (23-26)	.77-.88 (19-20)	.67-.77 (17-19)	.60-.69 (15-18)	.54-.62 (14-16)	.49-.56 (12-14)	1.75-1.99 (44-51)
	1.22-1.53 (31-39)	1.02-1.28 (26-33)	.88-1.10 (20-28)	.77-.96 (19-24)	.69-.86 (18-22)	.62-.77 (16-19)	.56-.71 (14-18)	2.00-2.49 (51-63)
	1.53-1.83 (39-46)	1.28-1.53 (33-39)	1.10-1.32 (28-34)	.96-1.16 (24-29)	.86-1.03 (22-26)	.77-.93 (19-24)	.71-.85 (18-22)	2.50-2.99 (63-76)
	1.83-2.14 (46-54)	1.53-1.79 (39-45)	1.32-1.54 (34-39)	1.16-1.35 (29-34)	1.03-1.20 (26-30)	.93-1.08 (24-27)	.85-.99 (22-25)	3.00-3.49 (76-89)
	2.14-2.44 (54-62)	1.79-2.05 (45-52)	1.54-1.76 (39-45)	1.35-1.54 (34-39)	1.20-1.37 (30-35)	1.08-1.24 (27-31)	.99-1.13 (25-29)	3.50-3.99 (89-101)
	2.44-2.75 (62-70)	2.05-2.30 (52-58)	1.76-1.98 (45-50)	1.54-1.74 (39-44)	1.37-1.55 (35-39)	1.24-1.39 (31-35)	1.13-1.27 (29-32)	4.00-4.49 (101-114)
	2.75-3.06 (70-78)	2.30-2.56 (58-65)	1.98-2.20 (50-56)	1.74-1.93 (44-49)	1.55-1.72 (39-44)	1.39-1.55 (35-39)	1.27-1.41 (32-36)	4.50-4.99 (114-127)

Fiber Optic Grip - Flexible Eye, Low Profile, Double/Single Weave Mesh

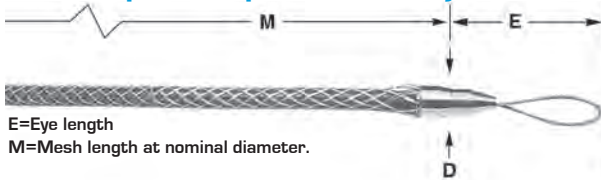


E=Eye length
M=Mesh length at nominal diameter.

Double/Single weave mesh, galvanized steel for outside plant cable. Used for the installation of fiber optic communication lines either underground, overhead, through conduit or through enclosures. They will fit single cables or cable bundles, are easily installed on the cable and are reusable.

Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)
08643753	033-29-1193	.10-.22	3-6	900	4,003	7½	190	10	254
08643754	033-29-1194	.21-.35	5-9	1,400	6,227	7½	190	14	356
08643755	033-29-1195	.32-.48	8-12	2,000	8,896	8½	216	19	483
08643756	033-29-1196	.42-.61	11-15	2,500	11,120	8½	216	21	533
08643757	033-29-1197	.53-.74	13-19	3,000	13,344	8½	216	23	584
08643758	033-29-1198	.64-.87	16-22	4,200	18,682	8½	216	25	635
08643759	033-29-1199	.75-1.00	19-25	4,200	18,682	8½	216	28	711

Fiber Optic Grip - Flexible Eye

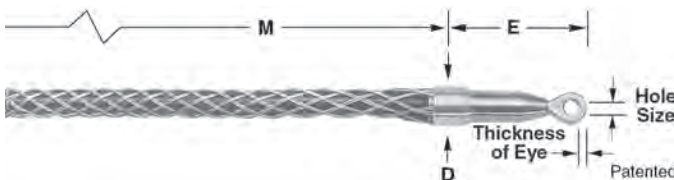


E=Eye length
M=Mesh length at nominal diameter.

Double/Single weave mesh, galvanized steel for outside plant cable. Used for the installation of fiber optic communication lines either underground, overhead, through conduit or through enclosures. They will fit single cables or cable bundles, are easily installed on the cable and are reusable.

Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M		D	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08643505	033-29-1000	.10-.22	3-6	1,000	4,448	5½	140	9	229	.8	20
08643512	033-29-1001	.21-.35	5-9	1,500	6,672	5½	140	14	356	.8	20
08643514	033-29-1002	.32-.48	8-12	2,200	9,786	6	152	18	457	.9	23
08643518	033-29-1003	.42-.61	11-15	2,800	12,454	6	152	21	533	.9	23
08643524	033-29-1004	.53-.74	13-19	3,300	14,678	6½	165	24	610	1.3	33
08643529	033-29-1005	.64-.87	16-22	4,700	20,906	6½	165	27	686	1.3	33

Fiber Optic Grip - Swivel Eye



Double/Single weave mesh, galvanized steel for outside plant cable. Used for the installation of fiber optic communication lines either underground, overhead, through conduit or through enclosures. They will fit single cables or cable bundles, are easily installed on the cable and are reusable.

Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M		D		Hole Size		Thickness of Eye	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08643612	033-29-1008	.21-.35	5-9	1,500	6,672	4	83	14	356	.9	23	.236	6	.496	13
08643614	033-29-1009	.32-.48	8-12	2,200	9,786	4	95	18	457	.9	23	.239	6	.496	13
08643618	033-29-1010	.42-.61	11-15	2,800	12,454	4	108	21	533	.9	23	.245	6	.505	13
08643624	033-29-1011	.53-.74	13-19	3,300	14,678	4½	127	24	610	1.3	33	.241	6	.5	13
08643629	033-29-1012	.64-.87	16-22	4,700	20,906	4½	146	27	686	1.3	33	.234	6	.502	13

Fiber Optic Slack Grip - Split Mesh, Rod Closing, Single Weave



E=Eye length
M=Mesh length at nominal diameter.

Single weave mesh, galvanized steel for outside plant cable. Used for the installation of fiber optic communication lines either underground, overhead, through conduit or through enclosures. They will fit single cables or cable bundles, are easily installed on the cable and are reusable.

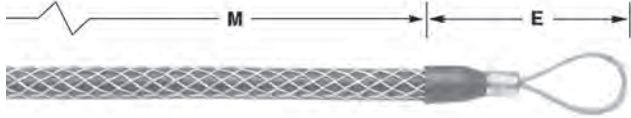
Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)
08643713	033-29-1015	.25-.37	6-9	300	1,334	3	76	4.7	119
08643716	033-29-1016	.38-.49	10-12	800	3,558	3	76	5	127
08643722	033-29-1017	.50-.61	13-15	800	3,558	3	76	7½	191
08643728	033-29-1018	.62-.74	16-19	1,200	5,338	3	76	8	203



PULLING GRIPS



Junior Grip



E=Eye length
M=Mesh length at nominal diameter.

Junior Pulling Grips feature a strong galvanized steel, single weave mesh. A flexible eye easily attaches to a pulling line, snake or fish tape. Designed to pull building wire, Junior grips are safe tools to use in pulling wire at low tension through conduit during electrical construction.

Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)
08643210	033-05-011	.19-.24	5-6	400	1,779	3 1/4	83	4 1/4	108
08643213*	033-05-001	.25-.36	6-9	450	2,002	3 1/4	83	4 1/4	108
08643216*	033-05-002	.37-.49	9-12	900	4,003	3 3/4	95	7	178
08643222*	033-05-003	.50-.61	13-15	1,300	5,782	4 1/4	108	8 1/2	216
08643228*	033-05-004	.62-.74	16-19	1,950	8,674	5	127	10	254
08643231*	033-05-005	.75-.99	19-25	2,800	12,454	5 3/4	146	10	254
08643237*	033-05-006	1.00-1.24	25-31	3,900	17,347	6 1/2	165	11 1/2	292

Junior Grip Kit

Contains items indicated with (*) in Junior Grip chart above.

Part Number 08643200



Light Duty Grip - Short



E=Eye length
M=Mesh length at nominal diameter.

Light Duty Pulling Grips are made of galvanized steel in a single weave construction. They feature a flexible eye for easy attachment to a pulling line. Light duty grips are used in general underground electrical construction where pulling tensions are low. They are easy tools to use in wiring industrial plants and commercial buildings.

Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)
08643022	033-03-001	.50-.61	13-15	2,800	12,454	5	127	11	279
08643028	033-03-002	.62-.74	16-19	2,800	12,454	5	127	11	279
08643031	033-03-003	.75-.99	19-25	4,000	17,792	6	152	12	305
08643037	033-03-004	1.00-1.24	25-31	5,300	23,574	7	178	13	330
08643043	033-03-005	1.25-1.49	32-38	5,300	23,574	7	178	14	356
08643049	033-03-006	1.50-1.74	38-44	6,800	30,246	8	203	15	381
08643052	033-03-007	1.75-1.99	44-51	8,500	37,808	8	203	17	432
08643055	033-03-008	2.00-2.49	51-63	8,500	37,808	9	229	18	457

Light Duty Grip - Standard



Light Duty Pulling Grips are made of galvanized steel in a single weave construction. They feature a flexible eye for easy attachment to a pulling line. Light duty grips are used in general underground electrical construction where pulling tensions are low. They are easy tools to use in wiring industrial plants and commercial buildings.

Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)
08643122	033-03-010	.50-.61	13-15	2,800	12,454	5	127	16	406
08643128	033-03-011	.62-.74	16-19	2,800	12,454	5	127	16	406
08643131	033-03-012	.75-.99	19-25	4,000	17,792	6	152	20	508
08643137	033-03-013	1.00-1.24	25-31	6,800	23,574	7	178	20	508
08643143	033-03-015	1.25-1.49	32-38	6,800	23,574	7	178	21	533
08643149	033-03-016	1.50-1.99	38-51	6,800	23,574	8	203	23	584
08643155	033-03-017	2.00-2.49	51-63	8,500	37,808	9	229	25	635
08643158	033-03-018	2.50-2.99	64-76	10,600	47,149	9	229	27	686
08643161	033-03-019	3.00-3.49	76-89	14,700	65,386	10	254	30	762
08643164	033-03-029	3.50-3.99	89-101	14,700	65,386	10	254	32	813

**CONDEX**

PULLING GRIPS



T-Type Grips - Short, Flexible Eye



E=Eye length
M=Mesh length at nominal diameter.

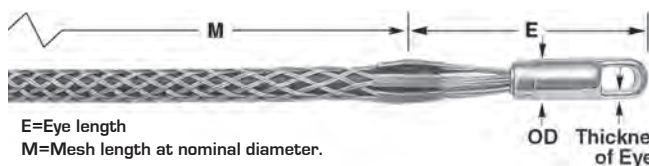
Flexible T-Type Pulling Grips are made of high strength galvanized steel strand. They feature double weave mesh for positive holding power in medium to heavy pulling jobs. The grip eye will easily attach to a swivel. They are used for the installation of underground power cables, communication lines and service lines into factories, construction projects and for general underground electrical construction. Available in two mesh lengths, short for medium pulls, and standard for general purpose pulling.

Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)
08642222	033-04-1082	.50-.61	13-15	4,500	20,016	8	203	21	533
08642228	033-04-1083	.62-.74	16-19	5,600	24,909	8	203	24	610
08642231	033-04-1084	.75-.99	19-25	6,800	30,246	9	229	24	610
08642237	033-04-1085	1.00-1.49	25-38	9,600	42,701	9	229	24	610
08642249	033-04-1086	1.50-1.99	38-51	16,400	72,947	11	279	24	610
08642255	033-04-1087	2.00-2.49	51-63	18,500	82,288	12	305	24	610
08642258	033-04-1088	2.50-2.99	64-76	24,500	108,976	12	305	24	610
08642261	033-04-1089	3.00-3.49	76-89	24,500	108,976	14	356	24	610
08642264	033-04-1090	3.50-3.99	89-101	31,000	137,888	14	356	26	660

T-Type Grips - Standard, Flexible Eye

Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)
08642331	033-04-1091	.75-.99	19-25	6,800	30,246	9	229	36	914
08642337	033-04-1092	1.00-1.49	25-38	9,600	42,701	9	229	36	914
08642349	033-04-1093	1.50-1.99	38-51	16,400	72,947	11	279	36	914
08642355	033-04-1094	2.00-2.49	51-63	18,500	82,288	12	305	36	914
08642358	033-04-1095	2.50-2.99	64-76	24,500	108,976	12	305	36	914
08642361	033-04-1096	3.00-3.49	76-89	24,500	108,976	14	356	36	914
08642364	033-04-1097	3.50-3.99	89-101	31,000	137,888	14	356	40	1,016

K-Type Grips* - Short, Forged Eye



E=Eye length
M=Mesh length at nominal diameter.

Rotating Eye, K-Type Pulling Grips are made of high strength galvanized steel strand. All grips feature double weave mesh for greater strength and added mesh contact on the cable, to handle longer or heavier pulling jobs. The forged eye mates easily with a swivel or shackle. They are specially designed for use in the installation of underground power cables, communication lines and service lines into factories, shopping centers, construction projects and general underground electrical construction.

Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M		OD Rotate Eye		Thickness of Eye	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08642022	033-01-001	.50-.61	13-15	5,600	24,909	5	127	11	279	7/8	22	.261	6
08642028	033-01-002	.62-.74	16-19	6,800	30,246	5	127	11	279	7/8	22	.268	6
08642031	033-01-013	.75-.99	19-25	6,800	30,246	6	152	20	508	1	25	.52	13
08642037	033-01-014	1.00-1.24	25-31	12,800	56,934	7	178	20	508	1 3/8	35	.518	13
08642043	033-01-016	1.25-1.49	32-38	12,800	56,934	7	178	21	533	1 3/8	35	.535	14
08642049	033-01-017	1.50-1.99	38-51	16,400	72,947	7	178	25	635	1 3/8	35	.525	13
08642055	033-01-018	2.00-2.49	51-63	27,200	120,986	8	203	26	660	1 5/8	41	.64	16
08642058	033-01-019	2.50-2.99	64-76	33,000	146,784	10	254	28	711	1 7/8	48	.683	17
08642061	033-01-020	3.00-3.49	76-89	41,000	182,368	10	254	30	762	1 7/8	48	.69	18
08642064	033-01-021	3.50-3.99	89-101	48,000	213,504	10	254	32	813	1 7/8	48	.69	18
08642067	033-01-1017	4.00-4.49	102-114	48,000	213,504	10	254	33	838	1 7/8	48	.687	17

K-Type Grips* - Standard, Forged Eye

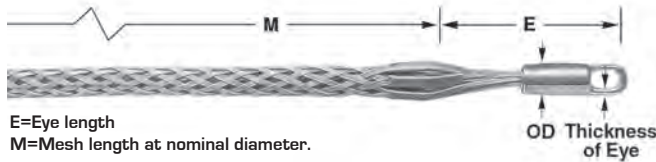
Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M		OD Rotate Eye		Thickness of Eye	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08642122	033-01-011	.50-.61	13-15	5,600	24,909	5	127	16	406	7/8	22	.277	7
08642128	033-01-012	.62-.74	16-19	6,800	30,246	5	127	16	406	7/8	22	.331	8
08642131	033-01-024	.75-.99	19-25	9,600	42,701	6	152	32	813	1	25	.515	13
08642137	033-01-025	1.00-1.49	25-38	16,400	72,947	7	178	33	838	1 3/8	35	.52	13
08642149	033-01-026	1.50-1.99	38-51	16,400	72,947	7	178	34	864	1 3/8	35	.537	14
08642155	033-01-027	2.00-2.49	51-63	27,200	120,986	9	229	36	914	1 5/8	41	.65	17
08642158	033-01-028	2.50-2.99	64-76	33,000	146,784	10	254	38	965	1 7/8	48	.68	17
08642161	033-01-029	3.00-3.49	76-89	41,000	182,368	10	254	39	991	1 7/8	48	.685	17
08642164	033-01-030	3.50-3.99	89-101	48,000	213,504	10	254	41	1,041	1 7/8	48	.67	17
08642167	033-01-031	4.00-4.49	102-114	48,000	213,504	10	254	42	1,067	1 7/8	48	.692	18
08642170	033-01-039	4.50-4.99	114-127	48,000	213,504	10	254	58	1,473	1 7/8	48	.68	17
08642173	033-01-047	5.00-5.99	127-152	48,000	213,504	10	254	60	1,524	1 7/8	48	.682	17
08642176	033-01-045	6.00-6.99	152-178	48,000	213,504	10	254	66	1,676	1 7/8	48	.69	18



PULLING GRIPS



Multiple Strength Grip - Rotating Eye *



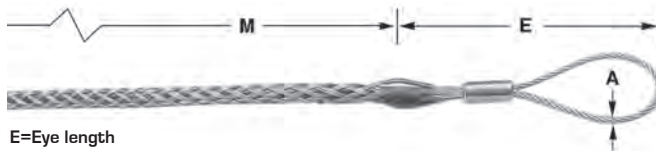
E=Eye length
M=Mesh length at nominal diameter.

Multiple Strength Pulling Grips are designed for pulling ACSR, aluminum or copper bare conductor, ground wires, messenger strands, wire rope and insulated cables. They are ideal for overhead transmission and distribution line stringing where moderate loading is anticipated. They are economical tools used for attaching conductors to pulling lines and double socking for conductor-to-conductor connections.

Part Number	Description	Color	Cable Diameter Range		Approximate Breaking Strength		E		M		OD Rotate Eye		Thickness of Eye	
			(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08641813	033-02-016	Dark Green	.25-.49	6-12	6,800	30,246	5	127	26	660	7/8	22	.315	8
08641822	033-02-018	Brown	.50-.74	13-19	10,000	44,480	5	127	32	813	1	25	.524	13
08641831	033-02-020	Light Blue	.75-.99	19-25	14,400	64,051	6	152	41	1,041	1	25	.513	13
08641837	033-02-022	Gold	1.00-1.24	25-31	24,600	109,421	8	203	52	1,321	1 1/8	35	.532	14
08641843	033-02-024	Black	1.25-1.49	32-38	30,600	136,109	8	203	56	1,422	1 1/8	41	.667	17
08641849	033-02-026	Red	1.50-1.74	38-44	30,600	136,109	9	229	60	1,524	1 1/8	48	.71	18
08641852	033-02-028	Dark Blue	1.75-2.24	44-57	48,000	213,504	10	254	70	1,778	1 1/8	48	.653	17
08641855	033-02-066	Yellow	2.00-2.49	51-63	48,000	213,504	10	254	50	1,270	1 1/8	48	.704	18
08641858	033-02-097	Orange	2.50-2.99	64-76	48,000	213,504	10	254	52	1,321	1 1/8	48	.685	17
08641861	033-02-1030	Aluminum	3.00-3.49	76-89	48,000	213,504	10	254	54	1,372	1 1/8	48	.694	18
08641864	033-02-1031	Light Green	3.50-3.99	89-101	48,000	213,504	10	254	56	1,422	1 1/8	48	.697	18

*Rotating Eye is not a swivel. It will not turn while under tension, but it can turn to relieve pulling torque when the tension is relaxed.

Multiple Strength Grip - Flexible Eye



E=Eye length
M=Mesh length at nominal diameter.

Multiple Strength Pulling Grips are designed for pulling ACSR, aluminum or copper bare conductor, ground wires, messenger strands, wire rope and insulated cables. They are ideal for overhead transmission and distribution line stringing where moderate loading is anticipated. They are economical tools used for attaching conductors to pulling lines and double socking for conductor-to-conductor connections.

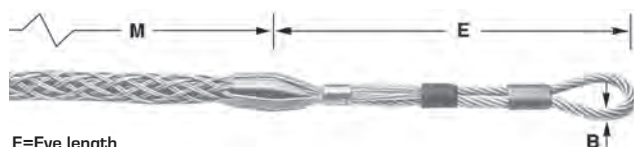
Part Number	Description	Color	Cable Diameter Range		Approximate Breaking Strength		E		M		Cable Dia. A	
			(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08641913	033-02-044	Dark Green	.25-.49	6-12	6,800	30,246	9	229	26	660	1/4	6
08641922	033-02-046	Brown	.50-.74	13-19	10,000	44,480	9	229	32	813	5/16	8
08641931	033-02-048	Light Blue	.75-.99	19-25	14,400	64,051	11	279	41	1,041	3/8	10
08641937	033-02-050	Gold	1.00-1.24	25-31	24,600	109,421	12	305	52	1,321	1/2	13
08641943	033-02-052	Black	1.25-1.49	32-38	30,600	136,109	12	305	56	1,422	1/2	13
08641949	033-02-054	Red	1.50-1.74	38-44	30,600	136,109	12	305	60	1,524	1/2	13
08641952	033-02-056	Dark Blue	1.75-2.24	44-57	48,000	213,504	18	457	70	1,778	5/8	16
08641955	033-02-1078	Yellow	2.00-2.49	51-63	48,000	213,504	18	457	50	1,270	5/8	16
08641958	033-02-1079	Orange	2.50-2.99	64-76	48,000	213,504	18	457	52	1,321	5/8	16
08641961	033-02-1080	Aluminum	3.00-3.49	76-89	48,000	213,504	18	457	54	1,372	5/8	16
08641964	033-02-1081	Light Green	3.50-3.99	89-101	48,000	213,504	18	457	56	1,422	5/8	16

**CONDEX**

PULLING GRIPS



Dua-Pull® Grips **



E=Eye length

M=Mesh length at nominal diameter.

Dua-Pull Pulling Grips are the highest strength pulling grips manufactured for overhead transmission line stringing applications. They are most commonly used for attaching pulling lines to conductors, conductors to running boards and double socking for conductor-to-conductor connections. They accommodate ACSR, ACAR, all aluminum and copper conductors, ground wires messenger strands and synthetic ropes not provided by any other grip.

Part Number	Description	Color	Conductor Dia. Range		Rope Dia. Range*		Approx. Breaking Strength		E		M		B	
			(in)	(mm)	(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08641710	033-27-1037	Black	.19-.37	5-9	.25-.65	6-17	6,500	28,912	10	254	24	610	.218	6
08641716	033-27-1038	Green	.38-.62	10-16	.50-.90	13-23	14,000	62,272	12	305	36	914	.375	10
08641728	033-27-1039	Red	.63-.87	16-22	.75-1.10	19-28	20,000	88,960	13	330	48	1,219	.437	11
08641734	033-27-1040	Blue	.88-1.12	22-28	1.00-1.50	25-38	30,600	136,109	15	381	60	1,524	.500	13
08641740	033-27-1041	Yellow	1.13-1.37	29-35	1.25-1.70	32-43	46,800	208,166	18	457	76	1,930	.625	16
08641746	033-27-1042	Aluminum	1.38-1.90	35-48	1.50-2.10	38-53	66,500	295,792	24	610	89	2,261	.750	19

*For rope, select smallest size grip which meets required work load.

** Dua-Pull is a registered trademark of Kellem.

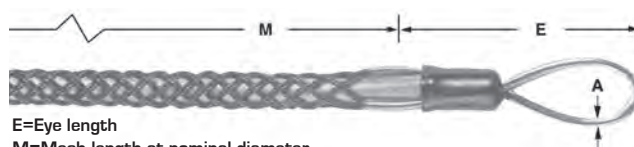
Dua-Pull Feed Tube



The Feed Tube is used when assembling synthetic rope into the Dua-Pull Grip. It is required on the two largest sizes of Dua-Pull Grips. Feed Tubes are available for use on all sizes of Dua-Pull Grips.

Part Number	Description	For Use With Dua-Pull Grip	Rope Diameter		Feed Tube Length	
			(in)	(mm)	(in)	(mm)
08641610	091-06-1043	08641710	.25-.65	6-17	28	711
08641616	091-06-1044	08641716	.50-.90	13-23	40	1,016
08641628	091-06-1045	08641728	.75-1.10	19-28	52	1,321
08641634	091-06-1046	08641734	1.00-1.50	25-38	67	1,702
08641640	091-06-1047	08641740	1.25-1.70	32-43	83	2,108
08641646	091-06-1048	08641746	1.50-2.10	38-53	96	2,438

Non-Conductive Grip



E=Eye length

M=Mesh length at nominal diameter.

Non-Conductive Pulling Grips are made of a high strength, non-conductive aramid fiber, and are available for pulling single cable or cable bundles. Their braided double weave design adds strength and positive holding power. They were developed for use by utilities for pulling overhead distribution lines in close proximity to energized lines and hardware.

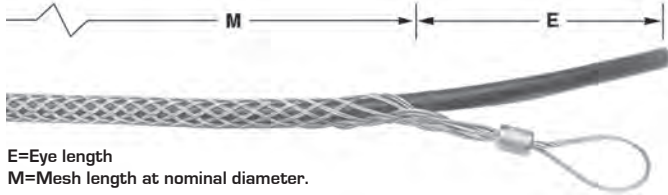
Part Number	Description	Color	Cable Diameter Range		Approximate Breaking Strength		E		M		Cable Dia. A	
			(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08642422	036-28-001	Green	.50-.62	13-16	4,000	17,792	5.5	140	24.0	610	.44	11
08642428	036-28-002	Yellow	.63-.74	16-19	5,000	22,240	5.5	140	26.0	660	.44	11
08642431	036-28-003	Red	.75-.99	19-25	6,000	26,688	6.0	152	31.0	787	.63	16
08642437	036-28-004	Blue	1.00-1.24	25-31	6,000	26,688	6.5	165	36.0	914	.63	16
08642443	036-28-005	White	1.25-1.49	32-38	6,000	26,688	6.7	170	41.5	1,054	.63	16



PULLING GRIPS



Slack Grip - Closed Mesh

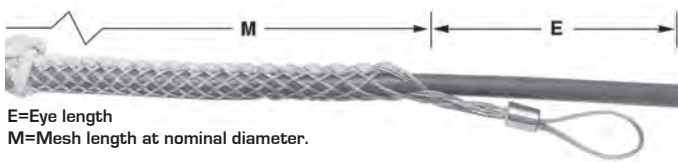


E=Eye length
M=Mesh length at nominal diameter.

Slack Grip - Closed Mesh Pulling Grips are made of high strength galvanized steel in a double weave construction with a single eye. The closed mesh style grip is used when the cable end is accessible. All grips feature a single offset eye for easy attachment to a pulling line. They are used to pull in slack for final placement of underground cable after it has been pulled in. They are also used for removing cable.

Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)
08642531	033-08-003	.75-.99	19-25	2,600	11,565	7	178	12	305
08642537	033-08-004	1.00-1.24	25-31	4,000	17,792	8	203	15	381
08642543	033-08-005	1.25-1.49	32-38	5,400	24,019	8	203	16	406
08642549	033-08-006	1.50-1.74	38-44	6,600	29,357	9	229	17	432
08642552	033-08-007	1.75-1.99	44-51	10,000	44,480	10	254	18	457
08642555	033-08-008	2.00-2.49	51-63	11,000	48,928	10	254	19	483
08642558	033-08-009	2.50-2.99	64-76	11,000	48,928	10	254	20	508
08642561	033-08-010	3.00-3.49	76-89	14,500	64,496	12	305	21	533
08642564	033-08-011	3.50-3.99	89-101	14,500	64,496	12	305	22	559

Slack Grip - Split Mesh, Lace Closing

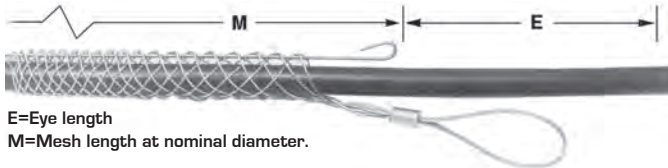


E=Eye length
M=Mesh length at nominal diameter.

Slack Grip - Split Mesh, Lace Closing Pulling Grips are made of high strength galvanized steel in a double weave construction with a single eye. The split lace closing style grip is used when the cable end is not accessible. All grips feature a single offset eye for easy attachment to a pulling line. They are used to pull in slack for final placement of underground cable after it has been pulled in. They are also used for removing cable. Standard mesh lengths are generally used in restricted space for short pulls. Longer lengths are used for higher pulling loads where space is not restricted.

Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)
08642731	033-09-003	.75-.99	19-25	2,500	11,120	7	178	12	305
08642737	033-09-004	1.00-1.24	25-31	3,500	15,568	8	203	15	381
08642743	033-09-005	1.25-1.49	32-38	4,000	17,792	8	203	16	406
08642749	033-09-006	1.50-1.74	38-44	4,000	17,792	9	229	17	432
08642752	033-09-007	1.75-1.99	44-51	4,000	17,792	10	254	18	457
08642755	033-09-008	2.00-2.49	51-63	4,000	17,792	10	254	19	483
08642758	033-09-009	2.50-2.99	64-76	4,000	17,792	10	254	20	508
08642849	033-09-015	1.50-1.99	38-51	4,000	17,792	9	229	25	635
08642855	033-09-016	2.00-2.49	51-63	4,000	17,792	10	254	26	660
08642858	033-09-017	2.50-2.99	64-76	4,000	17,792	10	254	29	737
08642861	033-09-018	3.00-3.49	76-89	4,000	17,792	12	305	32	813
08642864	033-09-019	3.50-3.99	89-101	4,000	17,792	12	305	35	889

Slack Grip - Split Mesh, Rod Closing



E=Eye length
M=Mesh length at nominal diameter.

Slack Grip - Split Mesh, Rod Closing Pulling Grips are made of high strength galvanized steel in a single weave construction with a single eye. The split rod closing style grip is used when the cable end is not accessible. All grips feature a single offset eye for easy attachment to a pulling line. They are used to pull in slack for final placement of underground cable after it has been pulled in. They are also used for removing cable.

Part Number	Description	Cable Diameter Range		Approximate Breaking Strength		E		M	
		(in)	(mm)	(lbs)	(N)	(in)	(mm)	(in)	(mm)
08642922	033-10-001	.50-.61	13-15	1,500	6,672	7	178	6	152
08642928	033-10-002	.62-.74	16-19	1,800	8,006	7	178	8	203
08642931	033-10-003	.75-.99	19-25	2,200	9,786	7	178	10	254
08642937	033-10-004	1.00-1.24	25-31	3,400	15,123	8	203	12	305
08642943	033-10-005	1.25-1.49	32-38	4,500	20,016	8	203	14	356
08642949	033-10-006	1.50-1.74	38-44	5,800	25,798	9	229	15	381
08642952	033-10-007	1.75-1.99	44-51	7,600	33,805	10	254	16	406
08642955	033-10-008	2.00-2.49	51-63	9,000	40,032	10	254	19	483
08642958	033-10-009	2.50-2.99	64-76	11,000	48,928	10	254	20	508
08642961	033-10-010	3.00-3.49	76-89	12,000	53,376	12	305	21	533
08642964	033-10-011	3.50-3.99	89-101	12,000	53,376	12	305	24	610



PE & PVC PULLING EYES



PE & PVC Pulling Eyes

Condux PE & PVC Pulling Eyes provide optimum gripping power and a watertight design. The watertight pulling eyes feature a multiple o-ring configuration, an extremely rigid center rod to prevent bending and a steel tapered lead cone with the same OD as the conduit. These design features protect the outer leading edge of the conduit and form a watertight seal. Condux PE & PVC Pulling Eyes also feature split gripping segments with aggressive gripping threads coupled with a steel expander plug that better grips the full range of conduit I.D.s.

Installation of the PE & PVC Pulling Eyes simply requires the leading eye to be tightened. The pulling eyes come standard with attachment eyes at both ends for connecting rope or steel lines. Pull-out strengths generally exceed the tensile capacity of the conduit.

See Ordering Information pages 68 & 69.

NOTE: PE & PVC Pulling Eyes come with a 90 day limited warranty.



PE & PVC Pulling Eyes Non-Sleeved Part Numbers

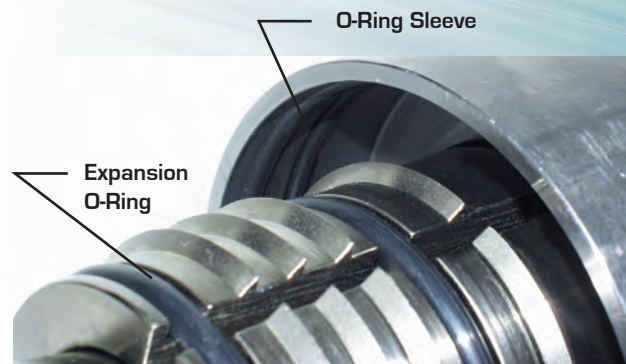
Part No.	Size in (mm)	Length in (mm)	Conduit ID in (mm)		Lead Cone OD in (mm)	Duct Type	Nom. Duct ID in (mm)
			Min.	Max.			
*08220020	2 [51]	8.18 [206]	1.88 [48]	2.15 [55]	2.375 [60]	2.0 SDR 11.0	1.92 [49]
						2.0 SCH 80	1.94 [49]
						2.0 SDR 13.5	2.00 [51]
						2.0 SDR 15.5	2.05 [52]
						2.0 SCH 40	2.07 [53]
						2.0 SDR 17.0	2.08 [53]
*08220030	3 [76]	11.89 [302]	2.69 [68]	3.13 [79]	4.00 [102]	3.0 SDR 11.0	2.83 [72]
						3.0 SCH 80	2.90 [74]
						3.0 SDR 13.5	2.95 [75]
						3.0 SDR 15.5	3.02 [77]
						3.0 SDR 17.0	3.06 [78]
						3.0 SCH 40	3.07 [78]
*08220611	4 [101]	14.11 [358]	3.50 [89]	4.20 [106]	4.81 [122]	4.0 SDR 7.0	4.026
						4.0 SDR 9.0	4.026
						4.0 SDR 11.5	4.026
						4.0 SDR 15.0	4.026
*08220050	5 [127]	18.45 [469]	4.25 [108]	5.06 [129]	5.56 [141]	5.0 SDR 11.0	4.49 [114]
						5.0 SDR 13.5	4.69 [119]
						5.0 SDR 15.5	4.80 [122]
						5.0 SDR 80	4.81 [122]
						5.0 SDR 17.0	4.87 [124]
						5.0 SDR 21.0	5.00 [127]
*08220060	6 [152]	19.6 [498]	5.06 [129]	6 [152]	7.00 [178]	5.0 SCH 40	5.05 [128]
						6.0 SDR 11.0	5.35 [136]
						6.0 SDR 13.5	5.58 [142]
						6.0 SDR 15.5	5.72 [145]
						6.0 SCH 80	5.76 [146]
						6.0 SDR 17.0	5.80 [147]
						6.0 SDR 21.0	5.96 [151]

* Non-sleeved

PE & PVC Pulling Eyes, O-Rings & O-Rings in Sleeve Part Numbers

Part No.	Size in (mm)	Length in (mm)	Conduit I.D. in (mm)		Lead Cone I.D. in (mm)	Duct Type	Nom. Duct I.D. in (mm)
			Min.	Max.			
08220612	1.00 (25)	6.23 (158)	1.00 (25)	1.25 (32)	1.415 (36)	1.00 SDR 11.0 1.00 SDR 13.5	1.075 (27) 1.121 (28)
08220600	1.25 (32)	6.23 (158)	1.25 (32)	1.50 (38)	1.76 (48)	1.25 SDR 11.0 1.25 Sch 40	1.33 (34) 1.38 (35)
						1.25 SDR 13.5 1.25 SDR 15.5	1.39 (35) 1.43 (36)
						1.25 SDR 17.0 1.25 SDR 21.0	1.44 (37) 1.50 (38)
						1.5 SDR 11.0 1.5 SDR 13.5	1.53 (39) 1.60 (41)
						1.5 Sch 40 1.5 SDR 15.5	1.61 (41) 1.63 (41)
08220601	1.50 (38)	6.23 (158)	1.50 (38)	1.75 (44)	2.01 (51)	1.5 SDR 17.0 1.5 SDR 21.0	1.66 (42) 1.72 (44)
						2.0 SDR 11.0 2.0 SDR 13.5	1.92 (49) 2.00 (51)
						2.0 SDR 15.5 2.0 Sch 40	2.05 (52) 2.07 (53)
						2.0 SDR 17.0 2.0 SDR 21.0	2.08 (53) 2.15 (55)
						2.5 SDR 11.0 2.5 SDR 13.5	2.32 (59) 2.42 (61)
08220609	2.5 (64)	8.80 (224)	2.31 (59)	2.56 (65)	3.01 (76)	2.5 Sch 40 2.5 SDR 15.5	2.47 (63) 2.49 (63)
						2.5 SDR 17.0 3.0 SDR 11.0	2.51 (64) 2.83 (72)
						3.0 SDR 13.5 3.0 SDR 15.5	2.95 (75) 3.02 (77)
						3.0 SDR 17.0 3.0 Sch 40	3.06 (78) 3.07 (78)
						4.0 SDR 11.0 4.0 SDR 13.5	3.63 (92) 3.79 (96)
08220604	4 (102)	14.11 (358)	3.50 (89)	4.06 (103)	4.63 (118)	4.0 Sch 80 4.0 SDR 15.5	3.83 (97) 3.89 (99)
						4.0 SDR 17.0 4.0 Sch 40	3.94 (100) 4.03 (102)
						4.0 SDR 21.0 5.0 SDR 11.0	4.05 (103) 4.49 (114)
						5.0 SDR 13.5 5.0 SDR 15.5	4.69 (119) 4.80 (122)
						5.0 SDR 17.0 5.0 SDR 21.0	4.87 (124) 5.00 (127)
08220605	5 (127)	18.45 (469)	4.25 (108)	5.06 (129)	5.63 (143)	5.0 Sch 40 6.0 SDR 11.0	5.05 (128) 5.35 (136)
						6.0 SDR 13.5 6.0 SDR 15.5	5.58 (142) 5.72 (145)
						6.0 SDR 17.0 6.0 SDR 21.0	5.80 (147) 5.96 (151)
						8.0 SDR 11.0 8.0 SDR 13.5	6.96 (177) 7.27 (185)
						8.0 SDR 15.5 8.0 SDR 17.0	7.45 (189) 7.55 (192)
08220608	8 (203)	21.53 (547)	6.63 (168)	7.69 (195)	8.84 (224)	Boreguard Heavy wall schedule 40	7.981 (203) 7.981 (203)
08220613	8 (203)	21.53 (547)	7.63 (194)	8.25 (209)	9.25 (235)		

Eye Part Number	Expansion O-Ring Part No.	Qty Per Eye	O-Rings in Sleeve Part No.	Qty Per Eye
08220612	02288918	2	02288986	2
08220600	02269636	2	02288994	2
08220601	08010414	2	02288920	2
08220602	02269625	2	02288921	2
08220609	02269633	3	02288993	2
08220603	02269624	3	02288922	2
08220604	02269621	3	02288888	2
08220605	02269626	6	02288927	2
08220606	02269622	6	02288890	2
08220608	02269631	6	02288923	2
08220613	02269631	6	02288923	2
08220020	02269625	2	-	-
08220030	02269624	3	-	-
08220611	02269621	3	-	-
08220050	02269626	6	-	-
08220060	02269622	6	-	-





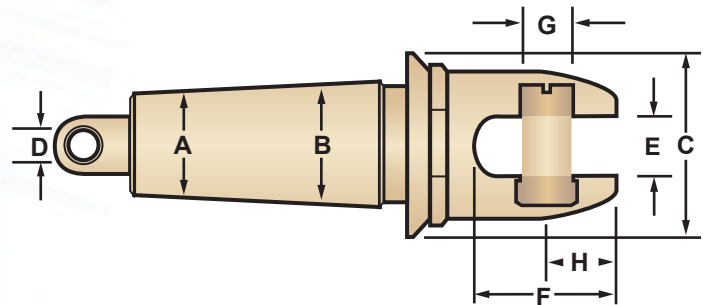
Swivel Head Innerduct Pulling Eye

The Innerduct Pulling Eye is a hybrid tool that combines features from standard innerduct pulling eyes and Condux swivels. A swivel head prevents twisting and binding of the innerduct as it is installed. It eliminates the need for a separate swivel on each pulling eye when installing single innerducts into individual conduits or multiple innerducts into a single conduit. Its short length is an advantage on tight bends compared to using a separate swivel and pulling eye. Easily installed using a 1 $\frac{3}{8}$ " deep socket or adjustable wrench.

NOTE: To determine correct pulling eye size, obtain the actual innerduct inside diameter (I.D.). The I.D. measurement must be greater than dimension A and smaller than dimension B.

Replacement Clevis Pins for Swivel Head Innerduct Pulling Eyes

Part Number	Replacement Part Number
08960712	08081036
08960715	08081036
08960720	08081036



FYI

See Compatibility chart on page 73 to determine what Innerduct Pulling Eyes work with the different size Innerduct Ranges, Innerduct SDR Ratings, Swivels, Pulling Harnesses and Threaded Chain Connectors.

Part Number	Nominal Size (in) (mm)		Innerduct I.D. Range A-B (in) A-B (mm)		Max O.D. C		Hole Dia. D		Slot Width E		Slot Depth F		Pin Dia. G		Pin Center H	
					(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08960712*	1-1 $\frac{1}{4}$	25-32	1.06-1.43	27-37	1.75	44	.44	11	.56	14	1.31	33	.44	11	.56	14
08960715*	1 $\frac{1}{2}$	38	1.37-1.68	35-43	2.00	51	.44	11	.56	14	1.31	33	.44	11	.56	14
08960720*	2	51	1.93-2.12	49-54	2.44	62	.44	11	.56	14	1.31	33	.44	11	.56	14

* Will fit all Condux pulling harnesses.

Clevis Head Innerduct Pulling Eye

Same tapered threads as the standard innerduct pulling eye, these pulling eyes feature a slotted head with clevis pin to permit direct attachment to any Condux multiple pulling harness leg ends. When properly sized and installed, these eyes will not pull out of the innerduct until the pulling tensions have greatly exceeded the maximum pulling tensions recommended by the innerduct manufacturers.

NOTE: To determine correct pulling eye size, obtain the actual innerduct inside diameter (I.D.). The I.D. measurement must be greater than dimension A and smaller than dimension B.

Replacement Clevis Pins for Clevis Head Innerduct Pulling Eyes

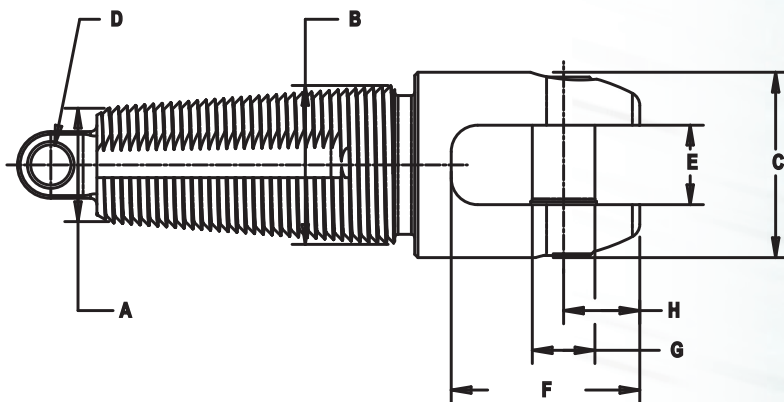
Part Number	Replacement Part Number
08914310	08081046
08914320	08081036
08914330	08210135
08914340	08081016
08914350	08081016
08914360	08081006

FYI

See Compatibility chart on page 73 to determine what Innerduct Pulling Eyes work with the different size Innerduct Ranges, Innerduct SDR Ratings, Swivels, Pulling Harnesses and Threaded Chain Connectors.



PULLING EYES
& ACCESSORIES



Part Number	Nominal Size		Innerduct I.D. Range		Max O.D. C		Hole Dia. D		Slot Width E		Slot Depth F		Pin Dia. G		Pin Center H	
	(in)	(mm)	A-B (in)	A-B (mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08914310*	3/4	19	.71-.87	18-22	1.25	32	.25	6	.56	14	1.34	34	.38	10	.59	15
08914320*	1	25	.93-1.06	24-27	1.38	35	.25	6	.56	14	1.34	34	.44	11	.56	14
08914330*	1 1/4	32	1.06-1.43	27-37	1.75	44	.38	10	.75	19	1.78	45	.63	16	.81	21
08914340*	1 1/2	38	1.37-1.68	35-43	2.00	51	.38	10	.75	19	1.78	45	.63	16	.72	18
08914350*	1 3/4	44	1.68-1.81	43-46	2.25	57	.38	10	.75	19	1.78	45	.63	16	.72	18
08914360**	2	51	1.93-2.12	49-54	2.50	62	.38	10	.75	19	2.50	62	.88	22	1.23	31

* Will fit all Condux pulling harnesses.

** Will fit the Condux 3/8" and 1/2" cable pulling harnesses.



INNERDUCT PULLING PRODUCTS

CONDEX



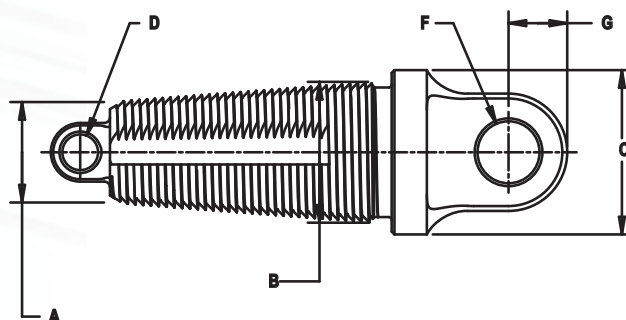
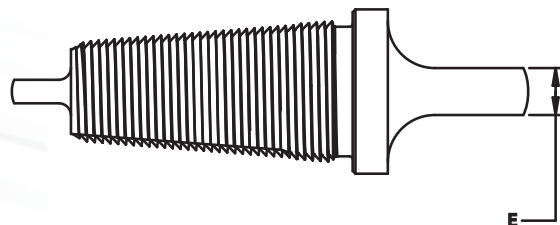
FYI

See Compatibility chart on page 73 to determine what Innerduct Pulling Eyes work with the different size Innerduct Ranges, Innerduct SDR Ratings, Swivels, Pulling Harnesses and Threaded Chain Connectors.

Fixed Head Innerduct Pulling Eye

Tapered buttress threads thread into the innerduct for maximum pulling strength. These eyes connect directly to a Condux swivel (see page 46). When properly sized and installed, these eyes will not pull out of the innerduct until the pulling tensions have greatly exceeded the maximum pulling tensions recommended by the innerduct manufacturers.

NOTE: To determine correct pulling eye size, obtain the actual innerduct inside diameter (I.D.). The I.D. measurement must be greater than dimension A and smaller than dimension B.



Part Number	Nominal Size		Innerduct I.D. Range		Max O.D. C		Hole Dia. D		Tang Thickness E		Tang Hole Diameter F		Tang Hole Location G	
	(in)	(mm)	A-B (in)	A-B (mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08914110	¾	19	.71-.87	18-22	1.25	32	.25	6	.38	10	.50	13	.50	13
08914120	1	25	.93-1.06	24-27	1.38	35	.25	6	.38	10	.50	13	.50	13
08914130	1¼	32	1.06-1.43	27-37	1.75	44	.38	10	.50	13	.66	17	.63	16
08914140	1½	38	1.37-1.68	35-43	2.00	51	.38	10	.50	13	.66	17	.63	16
08914150	1¾	44	1.68-1.81	43-46	2.25	57	.38	10	.50	13	.66	17	.75	19
08914160	2	51	1.93-2.12	49-54	2.50	62	.38	10	.50	13	.81	21	.75	19

Innerduct Pulling Eye Installation Tool

Fits on a ½" Drive Wrench to facilitate insertion of the eye into the innerduct.

Part Number	Description
08913335	Installation Tool



Compatibility Chart

Use the chart to determine what Innerduct Pulling Eyes work with the different size Innerduct Ranges, Innerduct SDR Ratings, Swivels, Pulling Harnesses and Threaded Chain Connectors.

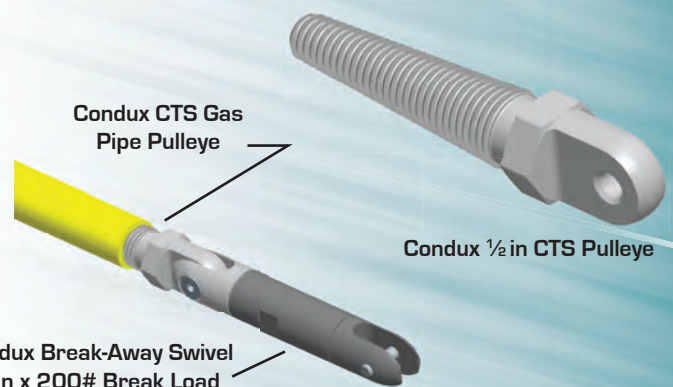
	Innerduct Eye Part No.	Innerduct I.D. Range	Innerduct Range					Compatibility		
			¾" Rating	1.00" Rating	1.25" Rating	1.50" Rating	2.00" Rating	Swivel Part No.	Pulling Harness Legs	Threaded Chain Connectors
Swivel Head	08960712	1.06-1.43	-	SDR 13.5 SDR 17 SDR 21	SDR 7 SDR 9 SDR 11 SDR 13.5	SDR 7	-	-	All	-
	08960715	1.37-1.68	-	-	SDR 13.5 SDR 15.5 SDR 17 SDR 21	SDR 9 SDR 11 SDR 13.5 SDR 15.5	-	-	All	-
	08960720	1.93-2.12	-	-	-	-	SDR 11 SDR 13.5 SDR 15.5 SDR 17	-	All	-
Clevis Head	08914310	.71-.87	SDR 11 SDR 13.5	-	-	-	-	-	All	-
	08914320	.93-1.06	-	SDR 7 SDR 9	-	-	-	-	All	-
	08914330	1.06-1.43	-	SDR 13.5 SDR 17 SDR 21	SDR 7 SDR 9 SDR 11 SDR 13.5	SDR 7	-	-	All	-
	08914340	1.37-1.68	-	-	SDR 13.5 SDR 15.5 SDR 17 SDR 21	SDR 9 SDR 11 SDR 13.5 SDR 15.5	-	-	All	-
	08914350	1.68-1.81	-	-	-	SDR 21	SDR 7	-	All	-
	08914360	1.93-2.12	-	-	-	-	SDR 11 SDR 13.5 SDR 15.5 SDR 17	-	All	-
Fixed Head	08914110	.71-.87	SDR 11 SDR 13.5	-	-	-	-	-	-	¼" - ⅜"
	08914120	.93-1.06	-	SDR 7 SDR 9	-	-	-	08080912 08080913	-	¼" - ⅜"
	08914130	1.06-1.43	-	SDR 11 SDR 13.5 SDR 17 SDR 21	SDR 7 SDR 9 SDR 11 SDR 13.5	SDR 7	-	08080912 08080913 08210014	-	¼" - ⅜"
	08914140	1.37-1.68	-	-	SDR 13.5 SDR 15.5 SDR 17 SDR 21	SDR 9 SDR 11 SDR 13.5 SDR 15.5	-	08080912 08080913 08210014	-	¼" - ⅜"
	08914150	1.68-1.81	-	-	-	SDR 21	SDR 7	08080913 08210014	-	⅝" & ⅜"
	08914160	1.93-2.12	-	-	-	-	SDR 11 SDR 13.5 SDR 15.5 SDR 17	08080912 08210014	-	¼" - ⅜"

PULLING EYES
& ACCESSORIES

CTS Gas Pipe Pulleyes

Tapered buttress threads thread into the gas pipe for maximum pulling strength. These eyes connect directly to a Condux Breakaway Swivel (compatible with Condux ⅝" Breakaway Swivel only). When properly sized and installed, these eyes will not pull out of the gas pipe until the pulling tensions have greatly exceeded the maximum pulling tensions recommended by the gas pipe manufacturers.

Part Number	Description	Dimension
08914005	½ Inch CTS Gas Pipe Pulleye	.315-.551
08914007	¾ Inch CTS Gas Pipe Pulleye	.551-.813
08914010	1 Inch CTS Gas Pipe Pulleye	.813-1.050





PULLING EYE SYSTEMS



Reusable Power Cable Pulling Eyes

Condux non-crimp Reusable Cable Pulling Eyes waste virtually no cable and all components are completely reusable. These eyes will remain firmly secured on the cable for a confident pull. No special tools or crimpers are required for installation.

Three designs of Reusable Power Pulling Eyes are available: Clevis Head, Standard Head, and Swivel Head.

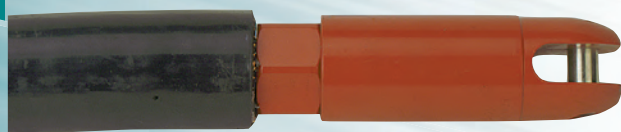
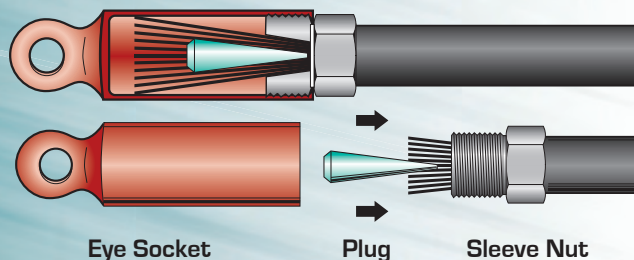
For ease of ordering and cost savings, kits are available for Clevis, Swivel and Standard Head Reusable Eyes. See page 76 for information.

NOTE: When properly installed, all Condux Reusable Power Pulling Eyes will exceed the recommended maximum pulling tensions for single conductor power cable as specified by the cable manufacturer.

NOTE: Multiple Pulling Harness and connectors available (see pages 52 & 53).

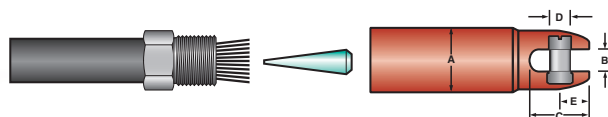
NOTE: All Reusable Eyes are color coded for ease of use.

PULLING EYES
& ACCESSORIES



Reusable Power Pulling Eyes, Clevis Head

The Clevis Head Power Pulling Eyes feature a slotted head with clevis pin to allow direct attachment to the Condux multiple pulling harness. When pulling multiple cables into a single conduit, the conductors can be attached to a harness and installation is simplified to a single pull of one assembly. Each Clevis Head Power Pulling Eye includes a clevis socket, sleeve nut, and plug.



Part Number	Cable Size	Color	Max. Conductor Diameter		Max. Eye O.D. A		Slot Width B		Slot Depth C		Pin Dia. D		Pin Center E		Replacement Plug Part Number
			(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
08918150+	2500 kcmil	Green	1.824	46	3.00	76	1.00	25	2.80	71	.88	22	1.23	31	08918123
08918050+	2000 kcmil	Red	1.601	41	2.50	64	1.00	25	2.80	71	.88	22	1.23	31	08918023
08917750+	1750 kcmil	Yellow	1.526	39	2.50	64	1.00	25	2.80	71	.88	22	1.23	31	08917723
08917950*	1500 kcmil	Black	1.412	36	2.38	60	.75	19	1.78	45	.63	16	.72	18	08917923
08917850*	1250 kcmil	Blue	1.289	33	2.25	57	.75	19	1.78	45	.63	16	.72	18	08917823
08917150*	1000 kcmil	Orange	1.152	29	2.06	52	.75	19	1.78	45	.63	16	.72	18	08917123
08917250*	750 kcmil	Brown	.998	25	1.75	44	.63	16	1.59	40	.56	14	.78	20	08917223
08917350*	700 kcmil	Gray	.964	24	1.75	44	.63	16	1.59	40	.56	14	.78	20	08917323
08918250*	600 kcmil	Green	.937	24	1.75	44	.63	16	1.59	40	.56	14	.78	19	08918223
08917450*	500 kcmil	Yellow	.813	21	1.44	37	.59	15	1.41	36	.44	11	.59	15	08917423
08918350**	400 kcmil	Black	.713	18	1.44	37	.56	11	1.40	36	.44	11	.59	15	08918323
08917550*	350 kcmil	White	.681	17	1.25	32	.56	14	1.34	34	.38	10	.59	15	08917523
08960350**	250 kcmil	Blue	.575	15	1.13	29	.38	10	1.06	27	.31	8	.53	13	08960323
08960450**	4/O AWG	Green	.528	13	1.00	25	.38	10	1.06	27	.31	8	.53	13	08960423
08960950**	3/O AWG	Orange	.475	12	1.00	25	.38	10	1.06	27	.31	8	.53	13	08960923
08960850**	2/O AWG	Black	.419	11	1.00	25	.38	10	1.06	27	.31	8	.53	13	08960823
08960550**	1/O AWG	Red	.373	9	.88	22	.38	10	1.06	27	.31	8	.53	13	08960523

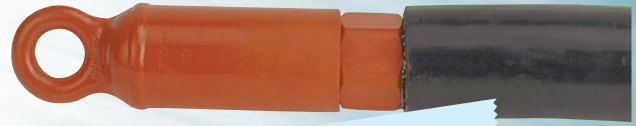
+ - Will fit 5/8" (9.5 mm) and 1/2" (13 mm) cable pulling harnesses.

* - Will fit all Condux pulling harnesses.

** - Will fit the 1/8" (3 mm) and 1/4" (6 mm) cable pulling harnesses.

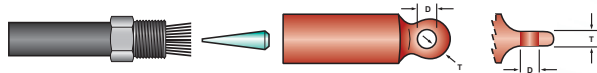
Reusable Power Pulling Eyes, Standard Head

The Standard Head Power Pulling Eyes are an excellent alternative when pulling multiple cables into a single conduit. Single conductors can be attached to a Condux Multiple Pulling Harness with links or with Condux swivels. Installation is then simplified to a single pull of one assembly. Each Standard Power Pulling Eye includes an eye socket, sleeve nut, and plug.



FYI

Will not work on Flat Aluminum Stranded Conductor.



Part Number	Cable Size	Color	Max. Conductor Dia.		Max. Eye O.D.		Hole Dia. D		Eye Thickness T		Replacement Plug Part Number
			(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
08918420	2750 kcmil	White	1.864	47	3.00	76	1.00	25	.50	13	08918423
08918120	2500 kcmil	Green	1.824	46	3.00	76	1.00	25	.50	13	08918123
08918020	2000 kcmil	Red	1.601	41	2.50	64	1.00	25	.50	13	08918023
08917720	1750 kcmil	Yellow	1.526	39	2.50	63	1.00	25	.50	13	08917723
08917920	1500 kcmil	Black	1.412	36	2.38	60	1.00	25	.50	13	08917923
08917820	1250 kcmil	Blue	1.289	33	2.25	57	1.00	25	.50	13	08917823
08917120	1000 kcmil	Orange	1.152	29	2.06	52	1.00	25	.50	13	08917123
08917220	750 kcmil	Brown	.998	25	1.75	44	.60	15	.43	11	08917223
08917320	700 kcmil	Gray	.964	24	1.75	44	.60	15	.43	11	08917323
08918220	600 kcmil	Green	.9367	24	1.75	44	.63	16	.43	11	08918223
08917420	500 kcmil	Yellow	.813	21	1.50	38	.81	21	.50	13	08917423
08918320	400 kcmil	Black	.7125	18	1.44	37	.81	21	.50	13	08918323
08917520	350 kcmil	White	.681	17	1.25	32	.75	19	.50	13	08917523
08960320	250 kcmil	Blue	.575	15	1.13	29	.63	16	.50	13	08960323
08960420	4/0 AWG	Green	.528	13	1.00	25	.50	13	.34	9	08960423
08960920	3/0 AWG	Orange	.475	12	1.00	25	.50	13	.34	9	08960923
08960820	2/0 AWG	Black	.419	11	1.00	25	.50	13	.34	9	08960823
08960520	1/0 AWG	Red	.373	9	.88	22	.50	13	.34	9	08960523

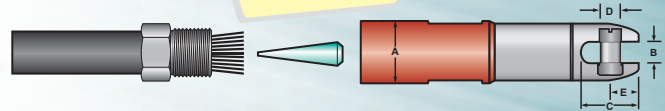
Reusable Power Pulling Eyes, Swivel Head

The Swivel Head Power Pulling Eye is a hybrid tool that combines features from standard reusable power pulling eyes and Condux swivels for superior performance. A swivel head prevents twisting and binding of the cable as it is installed. It eliminates the need for a separate swivel on each pulling eye when installing single cables into individual conduits or multiple cables into a single conduit. Each Swivel Head Power Pulling Eye includes a swivel head, sleeve nut, and plug.



FYI

Will not work on Flat Aluminum Stranded Conductor.



Part Number	Cable Size	Color	Max. Conductor Diameter		Max. Eye O.D. A		Slot Width B		Slot Depth C		Pin Dia. D		Pin Center E		Replacement Plug Part Number
			(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
08918175+	2500 kcmil	Green	1.824	46	3.00	76	1.00	25	2.80	71	.88	22	1.23	31	08918123
08918075+	2000 kcmil	Red	1.601	41	2.50	64	1.00	25	2.80	71	.88	22	1.23	31	08918023
08917775+	1750 kcmil	Yellow	1.526	39	2.50	64	1.00	25	2.80	71	.88	22	1.23	31	08917723
08917975*	1500 kcmil	Black	1.412	36	2.38	60	.75	19	1.78	45	.63	16	.72	18	08917923
08917875*	1250 kcmil	Blue	1.289	33	2.25	57	.75	19	1.78	45	.63	16	.72	18	08917823
08917175*	1000 kcmil	Orange	1.152	29	2.06	52	.75	19	1.78	45	.63	16	.72	18	08917123
08917275*	750 kcmil	Brown	.998	25	1.75	44	.63	16	1.59	40	.56	14	.78	20	08917223
08917375*	700 kcmil	Gray	.964	24	1.75	44	.63	16	1.59	40	.56	14	.78	20	08917323
08918275*	600 kcmil	Green	.9367	24	1.75	44	.63	16	1.59	40	.56	14	.78	19	08918223
08917475*	500 kcmil	Yellow	.813	21	1.44	37	.56	14	1.31	33	.44	11	.56	14	08917423
08918375**	400 kcmil	Black	.7125	18	1.44	37	.56	11	1.40	36	.44	11	.59	15	08918323
08917575*	350 kcmil	White	.681	17	1.25	32	.56	14	1.34	34	.38	10	.59	15	08917523
08960375**	250 kcmil	Blue	.575	15	1.13	29	.38	10	1.06	27	.31	8	.53	13	08960323
08960475**	4/0 AWG	Green	.528	13	1.00	25	.38	10	1.06	27	.31	8	.53	13	08960423
08960975**	3/0 AWG	Orange	.475	12	1.00	25	.38	10	1.06	27	.31	8	.53	13	08960923
08960875**	2/0 AWG	Black	.419	11	1.00	25	.38	10	1.06	27	.31	8	.53	13	08960823
08960575**	1/0 AWG	Red	.373	10	.88	22	.38	10	1.06	27	.31	8	.53	13	08960523

+ - Will fit 3/8" (9.5 mm) and 1/2" (13 mm) cable pulling harnesses.

* - Will fit all Condux pulling harnesses.

** - Will fit the 1/8" (3 mm) and 1/4" (6 mm) cable pulling harnesses.



FYI

See page 53 for Harnesses and see page 46 for Swivels.

Note: Kits include pulling eyes only. Some products shown available separately.

Reusable Power Pulling Eye Kits

For cost savings and ease of ordering, Condux has prepared kits for the Clevis, Standard, and Swivel Head Reusable Power Pulling Eyes.

Clevis Head Kits

Part Number	Description
08917010	Kit for 350 to 1000 kcmil power pulling eyes with clevis ends. Includes 3 each of the eyes for 350 to 1000 kcmil cable. NOTE: Does not include 400 or 600.
08917060	Kit for 1/0 AWG to 250 kcmil power pulling eyes with clevis ends. Includes 3 each of the eyes for 1/0 AWG to 250 kcmil cable.

Standard Head Kits

Part Number	Description
08917020	Kit for 350 to 1000 kcmil power pulling eyes with eye ends. Includes 3 each of the eyes for 350 to 1000 kcmil cable. NOTE: Does not include 400 or 600.
08917070	Kit for 1/0 AWG to 250 kcmil power pulling eyes with eye ends. Includes 3 each of the eyes for 1/0 AWG to 250 kcmil cable.

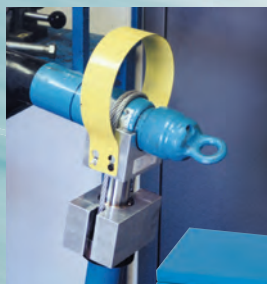
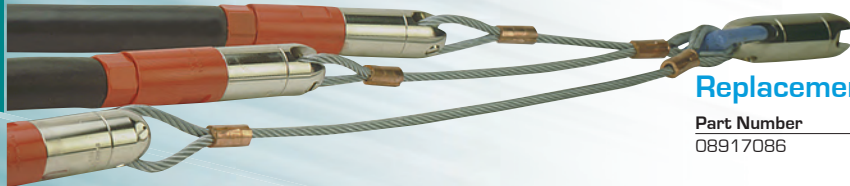
Swivel Head Kits

Part Number	Description
08917030	Kit for 350 to 1000 kcmil power pulling eyes with swivel ends. Includes 3 each of the eyes for 350 to 1000 kcmil cable. NOTE: Does not include 400 or 600.
08917080	Kit for 1/0 AWG to 250 kcmil power pulling eyes with swivel ends. Includes 3 each of the eyes for 1/0 AWG to 250 kcmil cable.

Replacement Case

Part Number	Description
08917086	Replacement case is available for the Reusable Power Pulling Eyes. This case includes an improved foam insert for the storage of the power pulling eyes.

PULLING EYES & ACCESSORIES



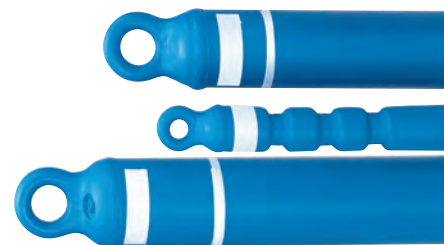
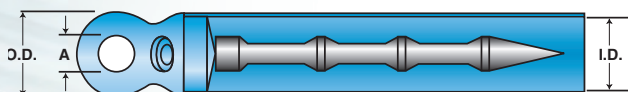
Crimp-On Cable Pulling Eyes and Accessories

Condux Crimp-On Cable Pulling Eyes for telephone and power cable are the ultimate solution in cable pulling eyes. These pulling eyes form a connection as strong as the cable itself. The entire cable, jacket and conductor is used which reduces the risk of cable deformation during pulling. When properly installed, Crimp-On Pulling Eyes are virtually impossible to pull off and also seal the cable against both water and air intrusion. Typically factory installed, the pulling eyes can also be field installed with a special crimping tool, available from Condux.

The Condux Crimp-On Cable Pulling Eyes Catalog lists complete information on different styles of pulling eyes available and serves as an ordering guide. It is available through Condux Customer Service or from your local manufacturer's representative. Call Condux at the numbers listed on the bottom of this page to order the Condux Crimp-On Cable Pulling Eyes Catalog.



Crimp-on Pulling Eye Crimper Kit and Accessories



Polywater® Lubricant J

Polywater® Lubricant J is a high performance, clean, slow-drying, water-based gel. Lubricant J provides maximum tension reduction in all types of cable pulling. It is especially recommended for long pulls, multiple-bend pulls and pulls in hot environments. Lubricant J dries to form a thin lubricating film that retains its slipperiness for months after use. It is harmless to humans, environmentally safe, compatible with all cable jacket materials and easily applied.

Part Number	Description	Std. Pkg. Qty.
08230300	1 Quart (.9 liter) Squeeze Bottle	12/case
08230310	½ Gallon (1.9 liter) Poly Bag (in Pail)	10/pail
08230301	1 Gallon (3.8 liter) Jug	4/case
08230305	5 Gallon (19 liter) Pourable Pail	1
08230355	55 Gallon (208 liter) Drum	1



Polywater® Lubricant WJ

Lubricant WJ is a non-freezing form of the standard Lubricant J for power applications.

Part Number	Description	Std. Pkg. Qty.
08230400	1 Quart (.9 liter) Squeeze Bottle	12/case
08230410	½ Gallon (1.9 liter) Poly Bag (in Pail)	10/pail
08230401	1 Gallon (3.8 liter) Jug	4/case
08230405	5 Gallon (19 liter) Pourable Pail	1
08230455	55 Gallon (208 liter) Drum	1

PULLING EYES
& ACCESSORIES

Polywater® Lubricant PJ

Polywater® Lubricant PJ is a pourable version of the Polywater® Lubricant J. It offers the same proven features as Polywater® Lubricant J in key areas such as lubricity, cable compatibility and easy clean-up, yet is easier to apply where pouring is practical.

Part Number	Description	Std. Pkg. Qty.
08230501	1 Gallon (3.8 liter) Jug	4/case
08230504	2½ Gallon (9.5 liter) Jug	2/case
08230505	5 Gallon (19 liter) Pourable Pail	1
08230555	55 Gallon (208 liter) Drum	1

For Fiber Optic Cable Blowing and Pulling Lubricants, see pages 133 & 152.



CableGlider® LW

The Condux CableGlider LW offers portability and ease of set-up, one-person operation, in a completely self-contained unit to adapt to a variety of pulling situations. It comes equipped with a one speed motor and gearbox that provides up to 3,000 lbs of pulling force.

Design features include: a pivoting arm, split conduit adapters and a foot switch for operator convenience and safety, recommend to be used with $\frac{3}{8}$ " - $\frac{1}{2}$ " diameter rope.

CableGlider LW includes the following items:

- Puller
- Foot switch
- Fork
- Canvas carrying bag

Part Number	Description
08678200	CableGlider LW (Includes: Puller, Foot Switch, Fork & Canvas Bag)

Specifications		
PULLING FORCE	lbs	Kn
Maximum	3,000	13
PULLING SPEED	ft/min	m/min
No Load	30	9
Power Requirements		
	115 VAC @ 9 AMPS Min.	
PEAK POWER	.95 HP .708 KW	
GENERATOR	3500 WATT Recommended	



POWER CABLE
INSTALLATION

FYI

Adapters sold separately
see page 80.



1" - 5" Conduit Adapters



Adapters Split for Easy Removal



Retaining Fork

EXTENSION RANGE 67" to 87"

PULLER Grooved cast aluminum capstan provides better rope gripping

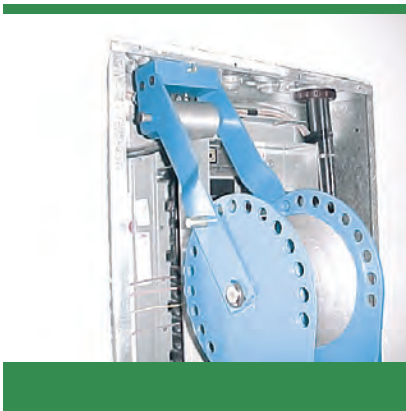
ELECTRIC MOTOR and gearbox provides up to 3000 lbs pulling force

FOOT SWITCH provides for operator convenience and safety

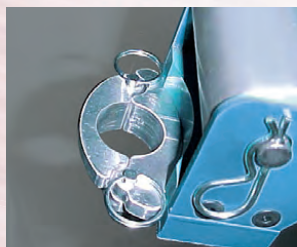
FORK rotates on head to accommodate different pulling situations



POWER CABLE
INSTALLATION



Can be used for Vertical or Horizontal Pulls



CableGlider LW® Tripod

Pull an additional 5-feet of slack with the Condux LW CableGlider Tripod.

NOTE: LW CableGlider sold separately.

Part No.	Description
08678350	3,000 lb CG Tripod
08678370	3,000 lb CG Tripod Retro Kit

Conduit Adapters

Replacement adapters are available, which allow pulling into conduit up to 4" (102 mm). The external adapters are designed to fit the OD of the conduit, while the internal adapters when used with the external adapters fit the ID of the conduit. All adapters come split for easy removal.

External Adapters

Part Number	Description
08678240	External Adapter, 1.00" (25 mm) Conduit
08678245	External Adapter, 1.25" (32 mm) Conduit
08678250	External Adapter, 1.50" (38 mm) Conduit
08678255	External Adapter, 2.00" (51 mm) Conduit
08678260	External Adapter, 2.50" (64 mm) Conduit
08678265	External Adapter, 3.00" (76 mm) Conduit
08678270	External Adapter, 3.50" (89 mm) Conduit
08678275	External Adapter, 4.00" (102 mm) Conduit
08678300	External Adapter, 5.00" (127 mm) Conduit
08678330	External Adapter, 6.00" (152 mm) Conduit

Internal Adapters (Requires External Adapters)

Part Number	Description
08678276	Internal Adapter, 1.00" (25 mm) Conduit
08678277	Internal Adapter, 1.25" (32 mm) Conduit
08678278	Internal Adapter, 1.50" (38 mm) Conduit
08678279	Internal Adapter, 2.00" (51 mm) Conduit
08678280	Internal Adapter, 2.50" (64 mm) Conduit
08678281	Internal Adapter, 3.00" (76 mm) Conduit
08678282	Internal Adapter, 3.50" (89 mm) Conduit
08678283	Internal Adapter, 4.00" (102 mm) Conduit
08678303	Internal Adapter, 2.00" (51 mm) Conduit Sch 80
08678304	Internal Adapter, 3.00" (76 mm) Conduit Sch 80
08678305	Internal Adapter, 4.00" (102 mm) Conduit Sch 80
08678306	Internal Adapter, 5.00" (127 mm) Conduit Sch 80
08678324	Internal Adapter, 5.00" (127 mm) Conduit Sch 40
08678329	Internal Adapter, 6.00" (152 mm) Conduit Sch 80

Adapter Kits

Part Number	Description
08678307	External Adapter Kit, 1.00-4.00" (25-127 mm) Conduit
08678320	Internal Adapter Kit, 1.00-4.00" (25-127 mm) Conduit

Extension Frame

The Extension Frame is ideal for pulling in handholes and pull boxes when added reach is necessary.

Part Number	Description
08678295	Extension Frame LW Puller

Fork Extension

Allows you to install an additional 6-inches (152 mm) of slack in a panel when used with the standard retaining fork.

Part Number	Description
08678309	Fork Extension

LW CableGlider Amp-Type Tensiometer

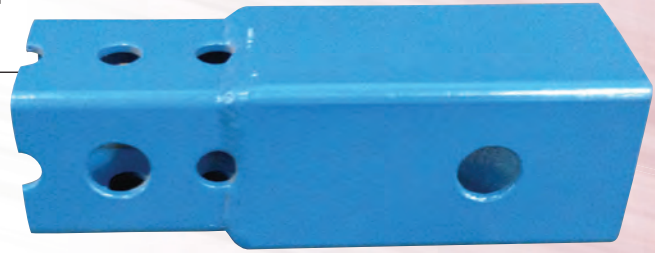
Monitors pull tension based on the number of amps the motor is drawing. Useful when superior accuracy is not required (Accuracy is $\pm 20\%$) Amp usage is then translated into a tension reading shown on the display.

Part Number	Description
08674110	110 Volt Amp-Type Tensiometer (LW model)

Hitch Mount Adapter LW CableGlider®

Hitch Mount Adapters are a fast, easy way to mount the LW CableGlider. The Hitch Mount Adapter attaches directly into a typical 2" (51 mm) square Reese-type receiver.

Part Number	Description
08678217	LW Hitch Mount Adapter



Floor/Conduit/Pole Mount Frame LW CableGlider®

Makes it possible to attach the power pack to the floor, steel conduit, I-beams or a wood pole. Usually is used where there is limited access for overhead pulling or pulling from pole risers. Floor mounting requires 5/8" or M16 fasteners, grade 5 or better.

NOTE: 24" (610 mm) diameter maximum pole.

WARNING: CableGlider Cable Pullers are not to be used as a hoist or for lifting, supporting or transporting people or loads.

Part Number	Description
08674000	Floor/Conduit/Pole Mount Frame LW CableGlider (Complete Kit)
08674001	Brackets, LW CableGlider
08674005	Floor/Conduit/Pole Mount Frame



CableGlider® STD Cable Puller

The Condux CableGlider STD Cable Puller offers portability and ease of set-up in a completely self-contained unit to adapt to a variety of pulling situations. It comes equipped with a two-speed removable power pack, providing up to 6,500 pounds (28,912 N) of pulling force at low speed. Speed changes are no problem with just a turn of a dial.

Design features include a self-tailing capstan for added stability, a pivoting arm and a foot switch for operator convenience and safety. Accepts all diameter rope [self-tailing capstan accepts $\frac{5}{8}$ " (16 mm) to $\frac{7}{8}$ " (22 mm) rope only].

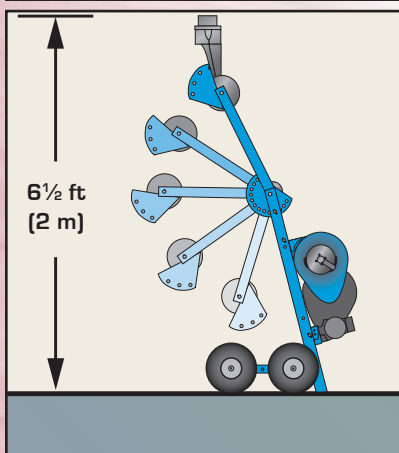
CableGlider STD includes the following items:

- Puller
- Foot switch
- Retaining Fork
- Conduit Adapters - 2" (51 mm), 3" (76 mm), 3½" (89 mm), 4" (102 mm)
- Tool box for the accessories

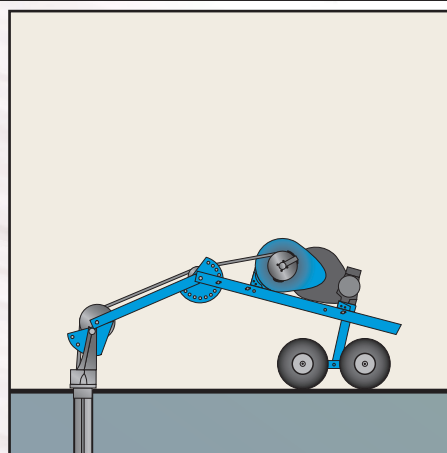


POWER CABLE
INSTALLATION

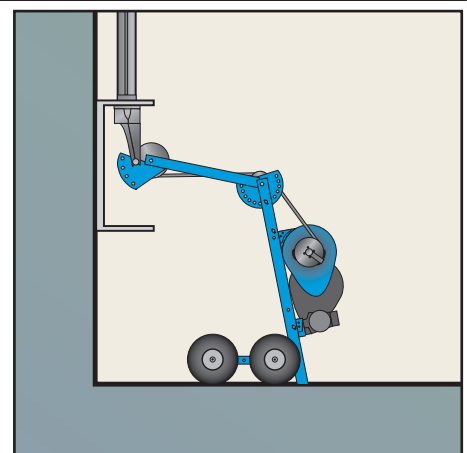
CableGlider STD Typical Applications



PIVOTING ARM



VERTICAL (UP) PULL FROM FLOOR



VERTICAL (DOWN) PULL FROM BOX

CableGlider STD

Part Number	Description
08610650	110 Volt Standard Cable Puller*
08610650S	110 Volt Standard Cable Puller Split*

*(International orders must specify plug type)

WARNING: CableGlider Cable Pullers are not to be used as a hoist or for lifting, supporting or transporting people or loads.

Complete Pulling Packages For CableGlider STD

Condux pulling packages offer cost savings and ordering convenience.

Part No.	Description
08674388	CableGlider STD (Package 1)
08674388S	CableGlider STD (Package 1) Split

- 110 Volt Puller with accessories (above)
- Standard Extension Frame (pg. 90)
- 600 ft. (183 m) of 5/8" (16 mm) double-braided rope (pg. 43)
- Floor/Conduit/Pole Mount Frame (pg. 89)
- 5" (127 mm) & 6" (152 mm) adapters w/retaining fork (pg. 91)
- Running Line Tensiometer with Chart Recorder (pg. 92)

08610686	CableGlider STD (Package 2)
08610686S	CableGlider STD (Package 2) Split

- All items in package 1 with:
- Amp-type Tensiometer (pg. 91) [replaces RLT]

Transformer Volt Converter 4000 Watt

Used only with the STD and Plus CableGliders.

Features:

- 4000 Watt
- Heavy-Duty Continuous use Transformer
- One grounded outlet in front of unit (accepts 3 or 2 prong US and Euro plugs)
- Converts 220/240 Volts down to 110/120 Volts
- Built-In Fuse Protection
- Hard-Wire with European Shucko Plug also good for Asian Outlets

Part Number	Description
08674850	Transformer Volt Converter 4000 Watt



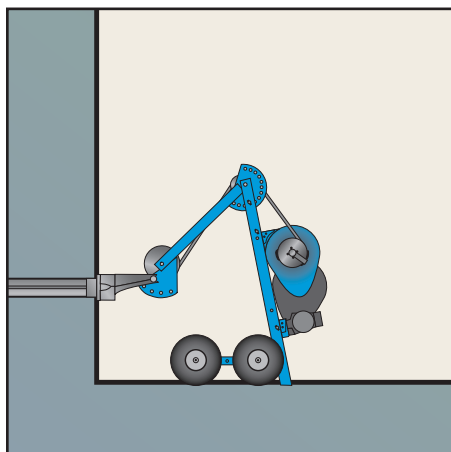
CableGlider STD Package 1

SPECIFICATIONS				
	Low Speed		High Speed	
PULLING FORCE	lbs	kN	lbs	kN
Maximum	6,500	28.9	3,500	15.6
Continuous	4,000	17.8	2,000	8.9
PULLING SPEED	ft/min	m/min	ft/min	m/min
No Load	17.5	5.3	39.2	12.0
At 2,000 lbs (8.9 kN)	13.5	4.1	18.8	5.7
At 4,000 lbs (17.8 kN)	9.5	2.9	—	—
At 6,000 lbs (26.7 kN)	7.0	2.1	—	—
Power Requirements				
08610650	115 VAC @ 10 Amps Min.			
PEAK POWER	1.9 HP (1.42 kW)			
GENERATOR	4000 Watt Recommended*			

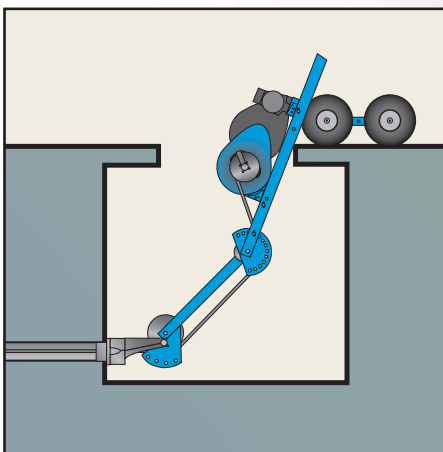
*NOTE: Use of less than the recommended wattage generator may effect the pulling specifications listed above.

POWER CABLE
INSTALLATION

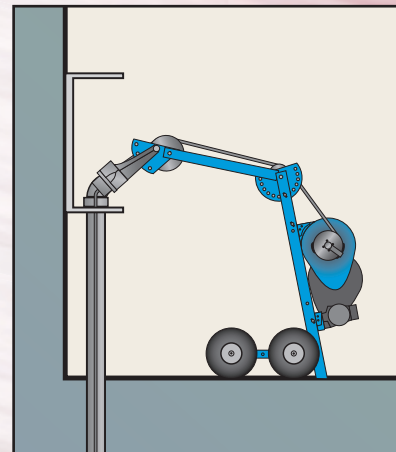
CableGlider STD Typical Applications



HORIZONTAL PULL



HORIZONTAL VAULT PULL



VERTICAL PULL WITH 45° ELBOW

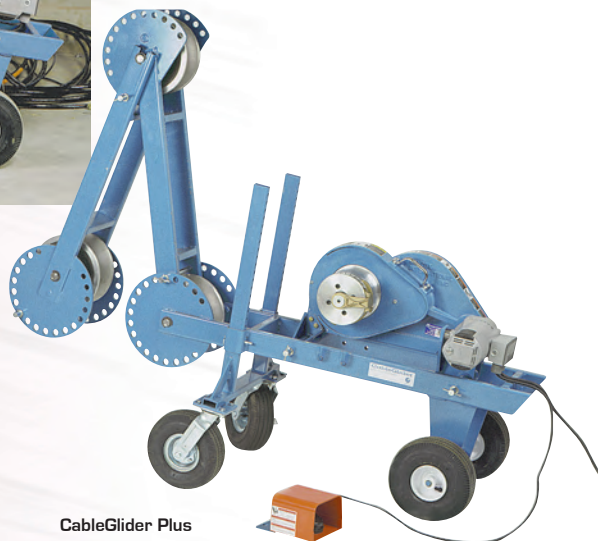
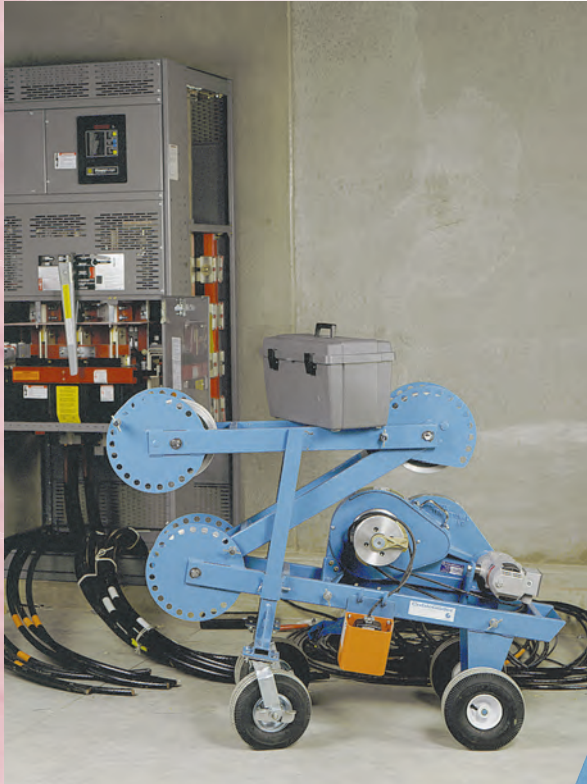
CableGlider® Plus Cable Puller

This model comes equipped with the same removable two-speed, 6,500 lbs (28,912 N) power pack and accessories as our STD model, but features a heavy-duty frame with an extra pivoting arm for added performance and versatility. In addition, the front frame height can easily be adjusted with pins. Like all CableGlider models, the Plus is portable, sets up quickly and comes completely self-contained, ready to work.

As with the STD model, the CableGlider Plus features a self-tailing capstan for added stability, a pivoting arm and a foot switch for operator convenience and safety. Accepts all diameter rope (self-tailing capstan accepts $\frac{5}{8}$ " (16 mm) to $\frac{7}{8}$ " (22 mm) rope only).

CableGlider Plus includes the following items:

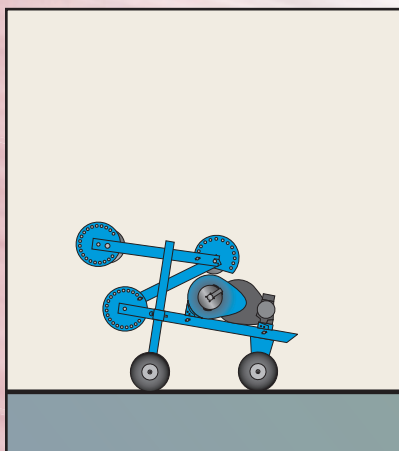
- Puller
- Foot switch
- Retaining Fork
- Conduit Adapters - 2" (51 mm), 3" (76 mm), 3½" (89 mm), 4" (102 mm)
- Tool box for the accessories



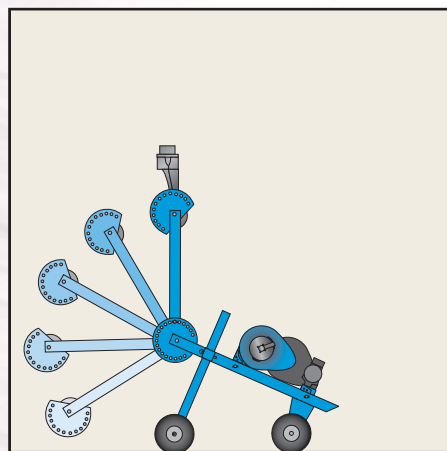
CableGlider Plus

POWER CABLE
INSTALLATION

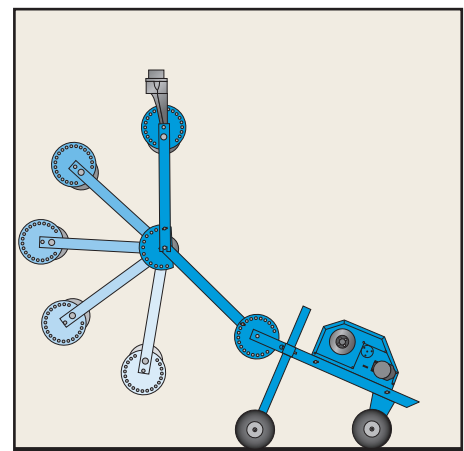
CableGlider Plus Typical Applications



TRANSPORT POSITION



FIRST PIVOTING ARM



SECOND PIVOTING ARM

CableGlider Plus

Part Number	Description
08674300	110 Volt Plus Cable Puller*
08674300S	110 Volt Plus Cable Puller Split*

*(International orders must specify plug type)

WARNING: CableGlider Cable Pullers are not to be used as a hoist or for lifting, supporting or transporting people or loads.

Complete Pulling Packages For CableGlider Plus

Condux pulling packages offer cost savings and ordering convenience.

Part No.	Description
08674391	CableGlider Plus (Package 1)
08674391S	CableGlider Plus (Package 1) Split
	• 110 Volt Puller with accessories (above) • HD Extension Frame (pg. 90) • 600 ft. (183 m) of 5/8" (16 mm) double-braided rope (pg. 43) • Floor/Conduit/Pole Mount Frame (pg. 89) • 5" (127 mm) & 6" (152 mm) adapters w/ retaining fork (pg. 91) • Running Line Tensiometer w/ data recorder (pg. 93)
08674386	CableGlider Plus (Package 2)
08674386S	CableGlider Plus (Package 2) Split
	• All items in package 1 with: • Amp-type Tensiometer (pg. 91) (replaces RLT)



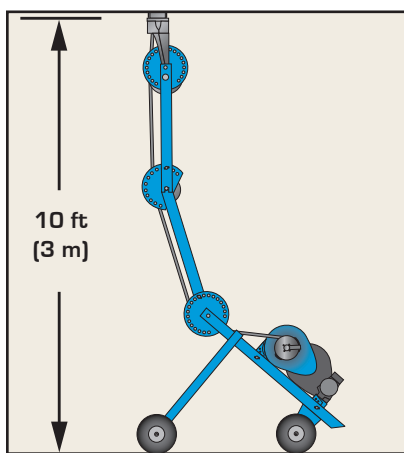
CableGlider Plus Package 1

SPECIFICATIONS				
	Low Speed		High Speed	
PULLING FORCE	lbs	kN	lbs	kN
Maximum	6,500	28.9	3,500	15.6
Continuous	4,000	17.8	2,000	8.9
PULLING SPEED	ft/min	m/min	ft/min	m/min
No Load	17.5	5.3	39.2	12.0
At 2,000 lbs (8.9 kN)	13.5	4.1	18.8	5.7
At 4,000 lbs (17.8 kN)	9.5	2.9	—	—
At 6,000 lbs (26.7 kN)	7.0	2.1	—	—
Power Requirements				
08674300	115 VAC @ 10 Amps Min.			
PEAK POWER	1.9 HP (1.42 kW)			
GENERATOR	4000 Watt Recommended*			

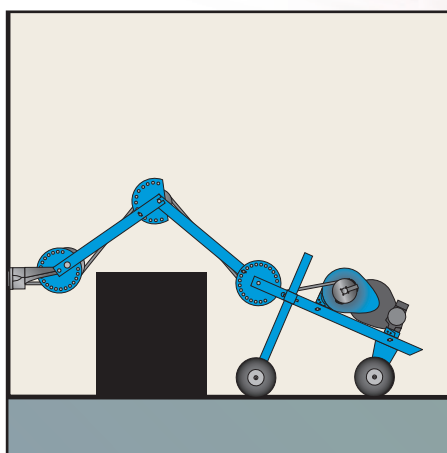
*NOTE: Use of less than the recommended wattage generator may effect the pulling specifications listed above.

POWER CABLE
INSTALLATION

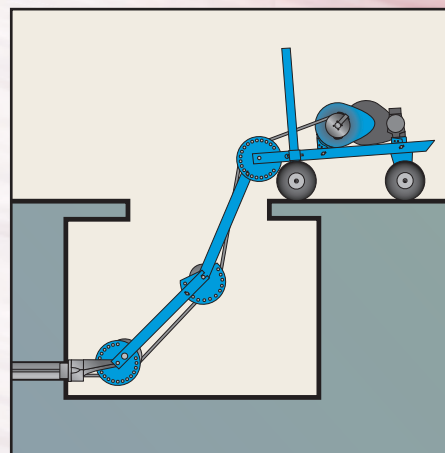
CableGlider Plus Typical Applications



VERTICAL OVERHEAD PULL



HORIZONTAL PULL
OVER OBSTRUCTION



HORIZONTAL VAULT PULL

CableGlider® HD Cable Puller

The Condux CableGlider HD is specially designed to provide maximum pulling power for longer runs in a completely self-contained unit. It offers fast set-up, portability and is easily adaptable for a variety of pulling situations.

The removable power pack delivers up to 12,000 pounds (53,375 N) of pulling force at low speed—over 80% more than our STD puller. The two-speed motor pulls up to 30 feet per minute at high speed and up to 15 feet per minute at low speed.

The CableGlider HD comes with a heavy-duty frame and extra pivoting arm. The front frame height can easily be adjusted with pins.

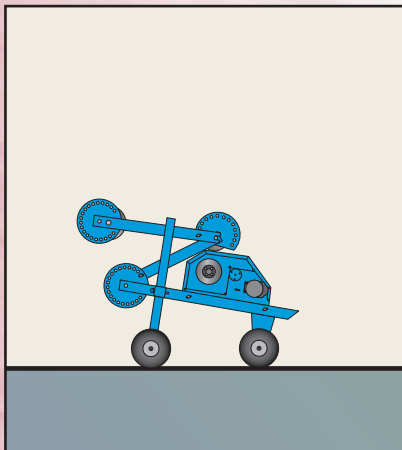
CableGlider HD includes the following items:

- Puller
- Foot switch
- Retaining Fork
- Conduit Adapters - 2" [51 mm], 3" [76 mm], 3½" [89 mm], 4" [102 mm]
- Tool box for the accessories

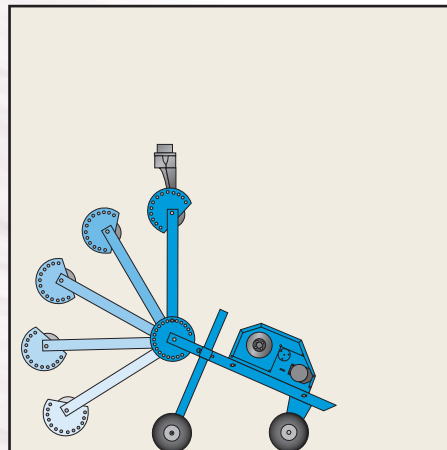


POWER CABLE
INSTALLATION

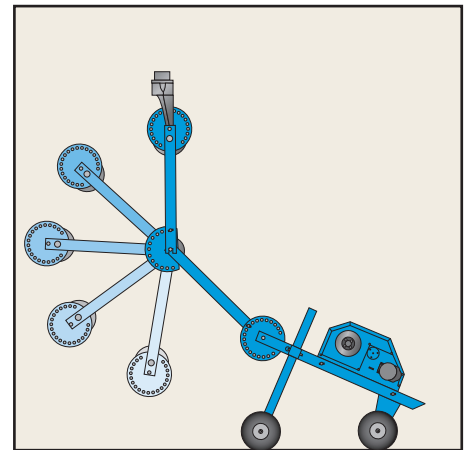
CableGlider HD Typical Applications



TRANSPORT POSITION



FIRST PIVOTING ARM



SECOND PIVOTING ARM

CableGlider HD

Part Number	Description
08674500	110 Volt HD Cable Puller with 20 amp twist plug*
08674500S	110 Volt HD Cable Puller with 20 amp twist plug Split*
*(International orders must specify plug type)	

WARNING: CableGlider Cable Pullers are not to be used as a hoist or for lifting, supporting or transporting people or loads.

Complete Pulling Packages For CableGlider HD

Condux pulling packages offer cost savings and ordering convenience.

Part No.	Description
08674688	CableGlider HD (Package 1)
08674689S	CableGlider HD (Package 1) Split
	• 110 Volt Puller with accessories (above) • HD Extension Frame (pg. 90) • 600 ft. (183 m) of 7/8" (22 mm) double-braided rope (pg. 43) • Floor/Conduit/Pole Mount Frame (pg. 89) • 5" (127 mm) & 6" (152 mm) adapters w/ retaining fork (pg. 91) • Running Line Tensiometer w/ data recorder (pg. 93)
08674688	CableGlider HD (Package 2)
08674688S	CableGlider HD (Package 2) Split
	• All items in package 1 with: • Amp-type Tensiometer (pg. 91) (replaces RLT)



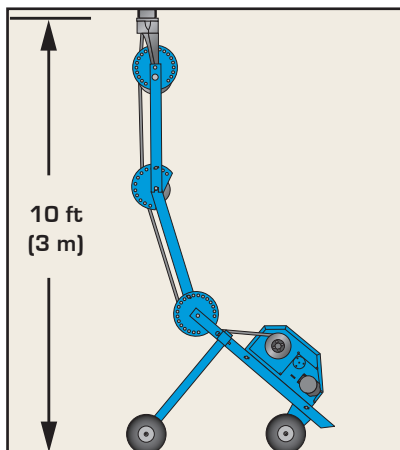
CableGlider HD Package 1

SPECIFICATIONS				
	Low Speed		High Speed	
PULLING FORCE	lbs	kN	lbs	kN
Maximum	12,000	53.4	6,000	26.7
Continuous	6,500	28.9	4,000	17.8
PULLING SPEED	ft/min	m/min	ft/min	m/min
No Load	20.1	6.1	40.9	12.5
At 4,000 lbs (17.8 kN)	14.5	4.4	26.5	8.1
At 6,000 lbs (26.7 kN)	11.2	3.4	—	—
At 10,000 lbs (44.5 kN)	9.4	2.9	—	—
Power Requirements				
08674500	115 VAC @ 20 Amps Min.			
PEAK POWER	4.7 HP (3.50 kW)			
GENERATOR	8000 Watt Recommended*			

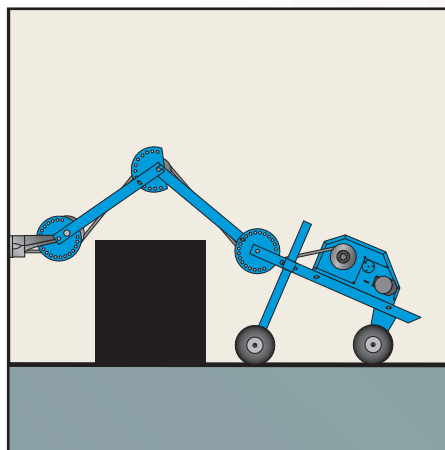
*NOTE: Use of less than the recommended wattage generator may effect the pulling specifications listed above.

POWER CABLE
INSTALLATION

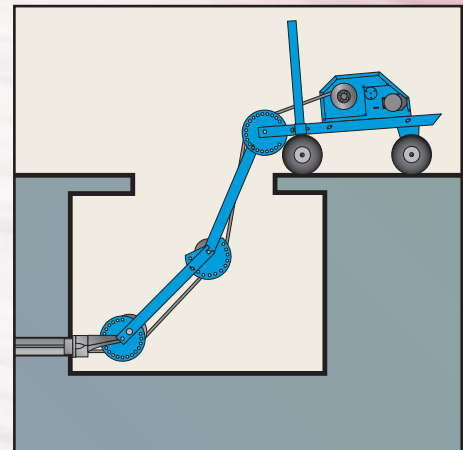
CableGlider HD Typical Applications



VERTICAL OVERHEAD PULL



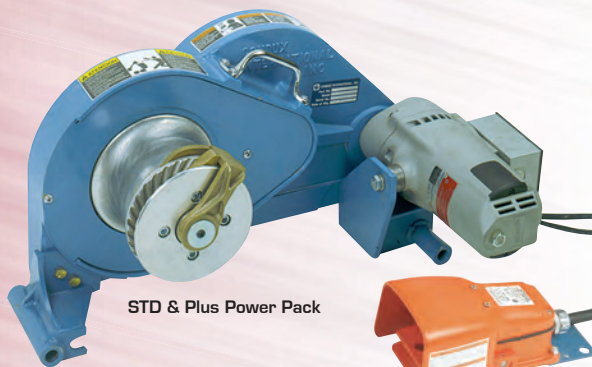
HORIZONTAL PULL
OVER OBSTRUCTION



HORIZONTAL VAULT PULL



CABLEGLIDER® POWER PACKS & ACCESSORIES



STD & Plus Power Pack



HD Power Pack

Power Packs

As an added measure of versatility and convenience, the Condux CableGlider® Power Packs can be purchased separately without the standard base frames provided with the CableGlider Cable Pullers. The power packs provide the same pulling capacities as the CableGlider Cable Pullers (see pages 82 to 87) and can be used on the Floor Mount Frame or the Floor/Conduit/Pole Mount Frames listed on page 89.

WARNING: CableGlider Cable Pullers are not to be used as a hoist or for lifting, supporting or transporting people or loads.

Part Number	Description
08610860	110 Volt STD Cable Puller Power pack
08610880	110 Volt Plus Cable Puller Power pack
08674680	110 Volt HD Cable Puller Power pack

POWER CABLE
INSTALLATION



Adjustable Manhole Adapter

Designed to work with CableGlider Cable Pullers, the Condux Adjustable Manhole Adapter allows greater stability and versatility for manhole pulls. The rugged aluminum frame provides an adjustable platform to fit 18" (450 mm) to 46" (1,168 mm) manholes.

Use the frame to position a cable puller above a manhole. Installation is easy, the fit is secure, and the strength is a maximum 12,000 lbs. (53,376 N).

Requires 6" retaining fork (see pg. 91).

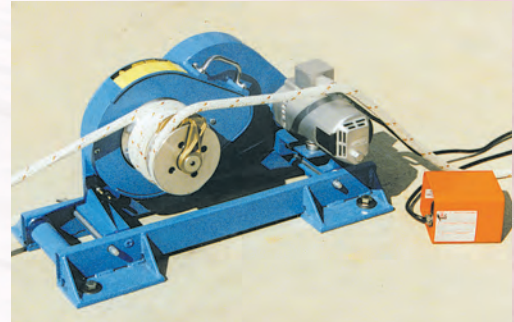
Part Number	Description
08674750	Adjustable Manhole Adapter (comes standard with 4" plate)
08674752	6" Plate
08674760	4" Replacement Plate

Floor Mount Frame

Fastens to the floor of a vault, manhole, or utility room. The power pack pins easily to the frame. Requires $\frac{5}{8}$ " or M16 fasteners, grade 5 or better.

WARNING: CableGlider Cable Pullers are not to be used as a hoist or for lifting, supporting or transporting people or loads.

Part Number	Description
08610620	Floor Mount Frame (STD model)
08674595	Floor Mount Frame (Plus & HD models)



Floor/Conduit/Pole Mount Frame

Makes it possible to attach the power pack to the floor, steel conduit, I-beams or a wood pole. Usually is used where there is limited access for overhead pulling or pulling from pole risers. Floor mounting requires $\frac{5}{8}$ " or M16 fasteners, grade 5 or better.

NOTE: 24" (610 mm) diameter maximum pole.

WARNING: CableGlider Cable Pullers are not to be used as a hoist or for lifting, supporting or transporting people or loads.

Part Number	Description
08674005	Floor/Conduit/Pole Mount Frame (STD model)
08674010	Floor/Conduit/Pole Mount Frame (Plus & HD models)



POWER CABLE
INSTALLATION



Extension Frame

Productivity reaches a new level with the Condux CableGlider® Cable Puller Extension Frame. Using only a few modular components, difficult pulling situations can have easy solutions.

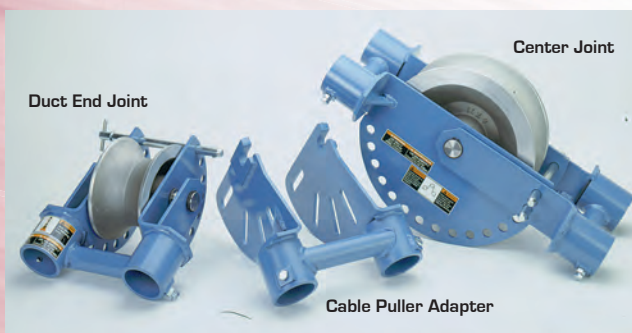
Ideal for cable pulling in deep manholes where added reach is necessary. Also, high overhead ducts can be reached without compromising the stability of the cable puller.

Pull slack with the Extension Frame when extra reach is not needed. It actually adds length to the conduit run, allowing the cable puller to be positioned further back and more cable (slack) to be pulled through.

Extension Frames are available in kits that configure to Condux CableGlider Standard, Plus, and Heavy Duty Cable Pullers. Each kit contains:

- Cable Puller Adapter
- Center Joint
- Duct End Joint

Steel duct [2" Sch 40 GRC] not included.



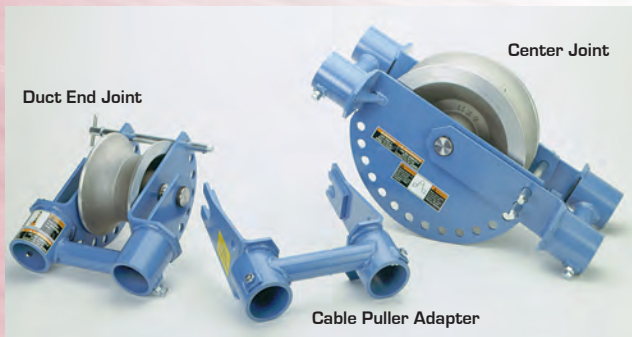
Extension Frame Kit for CableGlider STD Model

Extension Frame Kits

Part Number	Description
08674940	Kit for CableGlider STD model
08674960	Kit for CableGlider Plus and HD models

Replacement Parts/Individual Components

Part Number	Description
08674928	Puller Adapter for CableGlider STD model
08674927	Puller Adapter for CableGlider Plus and HD models
08674916	Center Joint for CableGlider STD, Plus and HD models
08674901	Duct End Joint for CableGlider STD, Plus and HD models



Extension Frame Kit for CableGlider Plus & HD Models



Center Joint



Duct End Joint



Cable Puller Adapter



Conduit Adapters

Additional adapters are available which allow pulling into conduit up to 6" (152 mm) in size. The 5" (127 mm) and 6" (152 mm) adapters require the use of an optional retaining fork.

Adapters for 2" (51 mm), 3" (76 mm), 3½" (89 mm), 4" (102 mm) conduit are included in a tool box that comes standard with all cable pullers. Order additional adapters separately below, or order a complete toolbox. Includes all six items marked with [*] below.

Straight Adapters

Part Number	Duct Size		Part Number	Duct Size	
	(in)	(mm)		(in)	(mm)
08610642	1¼	32	08610645*	3½	89
08610623	1½	38	08610646*	4	102
08610643*	2	51	08610648	5	127
08610647	2½	64	08610649	6	152
08610644*	3	76			

Split Adapters

Part Number	Duct Size		Part Number	Duct Size	
	(in)	(mm)		(in)	(mm)
08611001	1¼	32	08611006+	3½	89
08611002	1½	38	08611007+	4	102
08611003+	2	51	08611008	5	127
08611004	2½	64	08611009	6	152
08611005+	3	76			

Accessories

Part #	Description
02276000*	Tool box only for accessories
08674021*	Retaining fork for 2"-4" (51-102 mm) conduit adapters
08611012+	Split adapter retaining fork for 2"-4" (51-102 mm) conduit adapters
08674022	Retaining fork for 5"-6" (127-152 mm) conduit adapters
08611013	Split adapter retaining fork for 5"-6" (127-152 mm) conduit adapters
08674017	Complete tool box. Includes all six [*] items above
08611020	Complete tool box for split adapters. Includes all five [+] items

Elbow Adapter

Use in junction or meter boxes. Allows the conduit adapter to fully seat when there isn't room for the retaining fork and puller frame.

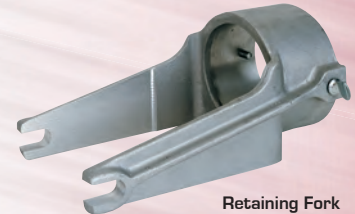
Part Number	Description
08674014	4" (102 mm) 45° Elbow adapter
08611011	4" (102 mm) 45° Split Elbow adapter



Split Adapter



Split Adapter Retaining Fork



Retaining Fork



Elbow Adapter



Split Elbow Adapter



POWER CABLE
INSTALLATION

Extension Cords

Part Number	Description
08677325	120 Volt, 20 Amp twist 25' (7.6 m) Extension cord
08677330	120 Volt, 20 Amp twist 100' (30 m) Extension cord



Extension Cord

Amp-Type Tensiometer

Monitors pull tension based on the number of amps the motor is drawing. Useful when superior accuracy is not required (Accuracy is ±20%). Amp usage is then translated into a tension reading shown on the display.

Part Number	Description
08674100	110 Volt Amp-Type Tensiometer (STD & Plus models)
08674501	110 Volt Amp-Type Tensiometer (HD model)

Amp-Type
Tensiometer
for STD & Plus
Models



Amp-Type
Tensiometer
for HD Model



Mechanical Sensing Unit

Electronic Control Box with Chart Recorder

Running Line Tensiometer

The Condux Running Line Tensiometer, used with the Condux CableGlider® Cable Pullers will give accurate measurements of the force exerted on a cable as it is installed. It consists of two components: Mechanical Sensing Unit (which mounts directly to the cable puller) and the Electronic Control Box.

The unit will accommodate pull tape and rope up to and including 7/8" diameter with an accuracy of $\pm 5\%$ of full scale. Load handling capabilities and other specifications are determined by the model used.

Mechanical Sensing Unit

Mounts easily to the cable puller frame with a mounting bracket and pin. The Condux Running Line Tensiometer's Mechanical Sensing Unit permits rope installation without disassembly of the unit.

Electronic Control Box

Features large LED Display and Paperless Recorder with trend display. Paperless Recorder includes: Trend Display, CompactFlash™ card slot with 64MB Flash Card, and USB interface. A programmable overload set point has both an audible and visual indication of an overload condition. The Electronic Control Box also has the capability to disengage the cable puller if an overload occurs.

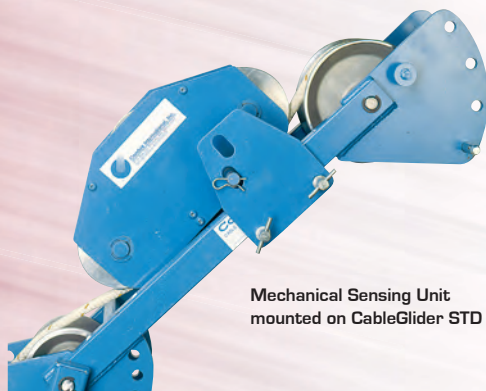
Running Line Tensiometer, CableGlider STD

Measures loads of 0 to 6,500 lbs. (0 to 28,912 N) with an accuracy of ± 325 lbs. (1,446 N).

Units comes standard with the following:

- Mechanical Sensing Unit
- ECB with these standard features:
 - o Large LED readout
 - o Paperless recorder with Trend Display, Compact Flash Drive™ with 64MB Flash Card
 - o USB Interface
- Load Cell and Cord
- Mounting Hardware
- Card Reader and Software

NOTE: For recalibrating, please call 1-800-533-2077, for RMA.



Mechanical Sensing Unit mounted on CableGlider STD



Part Number	Description
08677350	110 Volt RLT for CableGlider STD w/ data recorder

Running Line Tensiometer, CableGlider® Plus

Measures loads of 0 to 6,500 lbs. [0 to 28,912 N] with an accuracy of ± 325 lbs. [1,446 N].

Units comes standard with the following:

- Mechanical Sensing Unit
- ECB with these standard features:
 - o Large LED readout
 - o Paperless recorder with Trend Display, Compact Flash Drive™ with 64MB Flash Card
 - o USB Interface
- Load Cell and Cord
- Mounting Hardware
- Card Reader and Software

NOTE: For recalibrating, please call 1-800-533-2077, for RMA.

Part Number	Description
08677355	110 Volt RLT for CableGlider Plus w/data recorder

Running Line Tensiometer, CableGlider HD

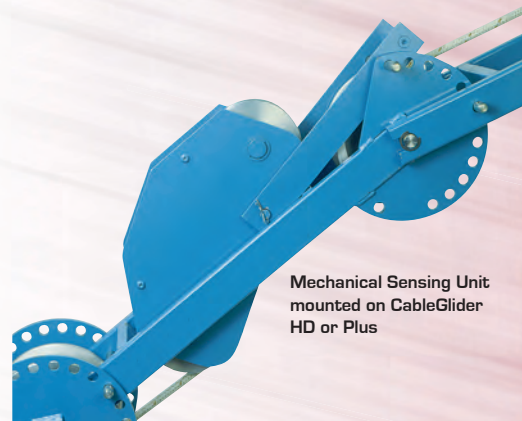
Measures loads of 0 to 12,000 lbs. [0 to 53,376 N] with an accuracy of ± 600 lbs. [2,669 N].

Units comes standard with the following:

- Mechanical Sensing Unit
- ECB with these standard features:
 - o Large LED readout
 - o Paperless recorder with Trend Display, Compact Flash Drive™ with 64MB Flash Card
 - o USB Interface
- Load Cell and Cord
- Mounting Hardware
- Card Reader and Software

NOTE: For recalibrating, please call 1-800-533-2077, for RMA.

Part Number	Description
08677360	110 Volt RLT for CableGlider HD w/data recorder



POWER CABLE
INSTALLATION

Replacement Parts

Part Number	Description
08677371	ECB Unit STD 110V
08677370	ECB Unit HD 110V
08677373	Mechanical Sensing Unit for STD
08677374	Mechanical Sensing Unit for HD
08677378	RLT Manual
02289664	Fuse, 250 V 20 AMP
02289665	ON/Off Switch
08677375	Cord Load Cell
02289666	Light, Red Pilot Indicator
02289667	Alarm, Buzzer ECB
02289668	Button, Alarm Reset ECB
08677372	Chart Recorder



Running Line Tensiometer
Electronic Control Box



Paperless Chart Recorder with Flash
Drive and USB Interface



APS75 CABLE PULLER

APS75 Cable Puller

The Condux APS75 Hydraulic Underground Cable Puller provides up to 7,500 lbs of continuous pulling power to tackle some of the toughest pulling applications.

Designed for installing underground cable the APS75 is completely self-contained and transports easily from jobsite to jobsite. Industry leading features like antitwist rope, digital monitoring, rotating pulling arm and wired remote control make the APS75 the most advanced pulling system on the market today.

The APS75 is precision manufactured to the highest standards. Each puller is backed with years of underground cable pulling experience and a commitment to quality customer service.

Part Number	Description
08771000-01	APS75 Underground Pulling Trailer
08771000-02	APS75 w/ Hydraulic Arm
08771000-05	APS75 w/ Hydraulic Arm & Jacks

NYLATRON®* ROLLERS have a super-hard surface and last longer than conventional cast rollers.

*Nylatron is a registered trademark of DSM.

STRAIGHTFORWARD OPERATOR CONTROLS allow equipment operator to safely operate the puller with a very short training period.

DYNAMOMETER INTEGRATED IN THE PULLER unit to control pull limits to cable manufacturer specs.

ROTATING ARM pivots 15° in either direction aligning easily and accurately. *(Shown with optional hydraulic kit)*

CONTROLLED PAY-IN AND PAY-OUT offers more operator control and safety.

DOT CERTIFIED TRAILER

POWER CABLE
INSTALLATION



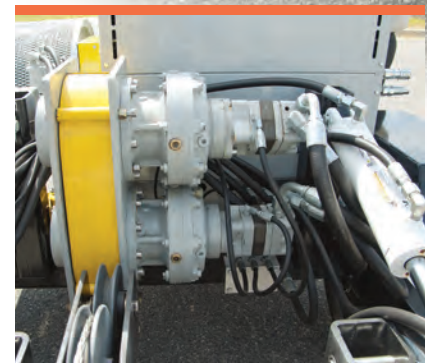
HYDRAULIC TOOL CIRCUIT

Each unit comes standard with a hydraulic tool circuit to operate additional hydraulic powered tools. The fully enclosed sound attenuated hydraulic power pack offers 40 gpm pump & motor with a 20 gallon filtered reservoir. Seven gpm @ 2000 psi is available for hand tools and pumps.



ANTITWIST ROPE WITH LEVEL WIND

Comes standard with 2600 ft. of antitwist rope and built-in reel winder with automatic level wind. Advantages include high flexibility, absolute minimal cable twisting and equal distribution of tension among primary wires. Results in increased pulling efficiency, less duct abrasion and can be spliced in the field.



THE BRANDS YOU KNOW

Major engine, hydraulic system and trailer components are from widely popular national suppliers meaning excellent reliability and spare parts availability.

APS75 CABLE PULLER



DIESEL ENGINE provides 34 HP and features easy access maintenance. Water cooled.

USB PORT

Standard USB connection allows users to record and download pulling operations on a standard flash drive. Information is downloaded as a .csv file and can be downloaded onto any computer, then printed, saved and/or emailed.



HYDRAULIC JACKS

Hydraulically powered jack stands are easy to use and improve set up time.



FULLY ENCLOSED UNIT

The APS75 is safe, convenient and reliable. Includes noise reducing material.

ON BOARD TOOLBOX is also fully enclosed.

HYDRAULIC PULLER UNITS WITH OIL COOLER provide smooth operation throughout the pull.

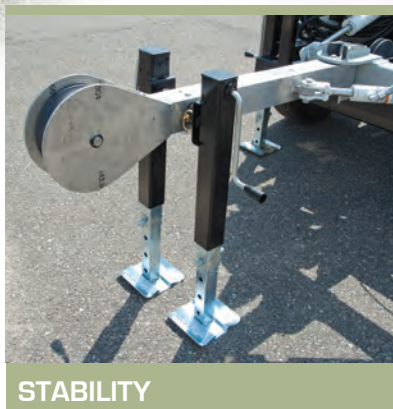


POWER CABLE
INSTALLATION



SAFETY

All moving parts are housed safely in enclosures or protected by guards to help improve operator and jobsite safety. The trailer unit also comes standard with electric brakes.



STABILITY

The APS75 is designed with a low center of gravity, excellent F/R weight distribution, and numerous adjustable supports for optimum stability for both the road and the job.



EASY TO OPERATE

The APS75 features an easy-to-read control panel that includes a convenient hard-wired remote that helps improve safety by allowing the operator to monitor the manhole while distancing himself from noise and moving components.



Electronic Information Center

New digital readout allows the operator to view pulling forces, distance pulled, tension limiter and hydraulic pressure readings. Tension limits are setup quickly and easily. The APS75 also comes standard with a wired remote control to provide the operator added safety and convenience. Emergency stop buttons located on the main panel and remote control will stop the pull operations immediately when pressed. Pulling operations can be recorded and downloaded after the pull through a convenient USB port located under the wired remote.

- Control lever for pull in, neutral and payout
- Digital dynamometer with set point and automatic control of maximum pull with load cut-off.
- Digital footage counter that reads the footage of pulling rope paying in or paying out.
- Warning lights



Air Compressor Unit

Part Number	Description
08771000-03	APS75 w/Compressor
08771000-04	APS75 w/Compressor & Hydraulic Arm
08771000-06	APS75 w/Compressor & Hydraulic Arm & Jacks



The APS75 is available with a 185 CFM @ 100 PSI air compressor. The air compressor unit comes with the same standard features as the non-compressor unit and is also available with or without the optional pivot arm hydraulic kit.

APS75 CABLE PULLER



Aluminum A-Frame

The APS75 A-frame extension adds productivity by adjusting quickly to difficult pulling situations. Added reach for pulling extra slack is ideal for manhole applications and challenging job site conditions.

Part Number	Description
08771350	Aluminum A-frame APS75



Aluminum A-frame shown on the APS75 Cable Puller with hydraulic arm & jacks.

Antitwist Rope

Part Number	Description	Break Strength
08771275	3/8" x 2600 Antitwist Rope	15,000 lbs.

- *Rope is shipped on a 32" diameter wood reel.
- *Rope comes standard with one crimped eye.



Other Standard Features:

- Easy to operate control panel
- DOT Certified Trailer
- Electric Brakes with a 7 pin connector standard
- Noise reduction materials around engine compartment
- Dynamometer integrated in the puller to control pull limits.



APS75 SPECIFICATIONS

	Standard	w/Compressor
Performance		
Maximum Line Pull (lbs)	7500	
Maximum Speed (fpm)	175	
Engine		
Engine Type	Diesel	
Horsepower	34	
Electrical System	12 volt	
Fuel Tank (g)	18	
Bullwheel		
Dimensions	8.5 inch dia with 6 grooves	
Rope Reel w/Built in Level Wind		
Antitwist Rope	2600 feet of 3/8 inch	
Hydraulics		
Tool Circuit	7 gpm @ 2000 psi	
Dimensions		
Width	80 inches	80 inches
Height	96 inches	96 inches
Length	129 inches	178 inches
Weight	4500 Pounds (Wet)	6500 Pounds (Wet)
Air Compressor		
Velocity		185 cfm @ 100 psi
Compressor Hose with Couplings		3/4" x 50' air hose reel

POWER CABLE
INSTALLATION



WDR505 CABLE PULLER

WDR505 Cable Puller

The Condux WDR505 Hydraulic Underground Cable Pulling Trailer provides up to 9,000 lbs. of continuous pulling power to tackle the toughest underground pulling applications.

Designed for installing underground cable, the WDR505 is completely self contained and transports easily from jobsite to jobsite. Industry leading features like anti-twist rope and modular extension arms make the WDR505 the most advanced puller on the market today. An advanced electronic information system is also available for monitoring and documenting vital pulling functions.

The WDR505 is precision manufactured to the highest standards. Each puller is backed with years of underground cable pulling experience and a commitment to quality customer service.

Part Number	Description
08763030	WDR505 Underground Pulling Trailer
08763030-1	WDR505 Underground Pulling Trailer with Electronic Control Box
08763030-1R	WDR505 Underground Pulling Trailer with Electronic Control Box and Remote
08763030R	WDR505 Underground Pulling Trailer with Remote

NYLATRON®* ROLLERS

have a super-hard surface and last longer than conventional cast rollers.

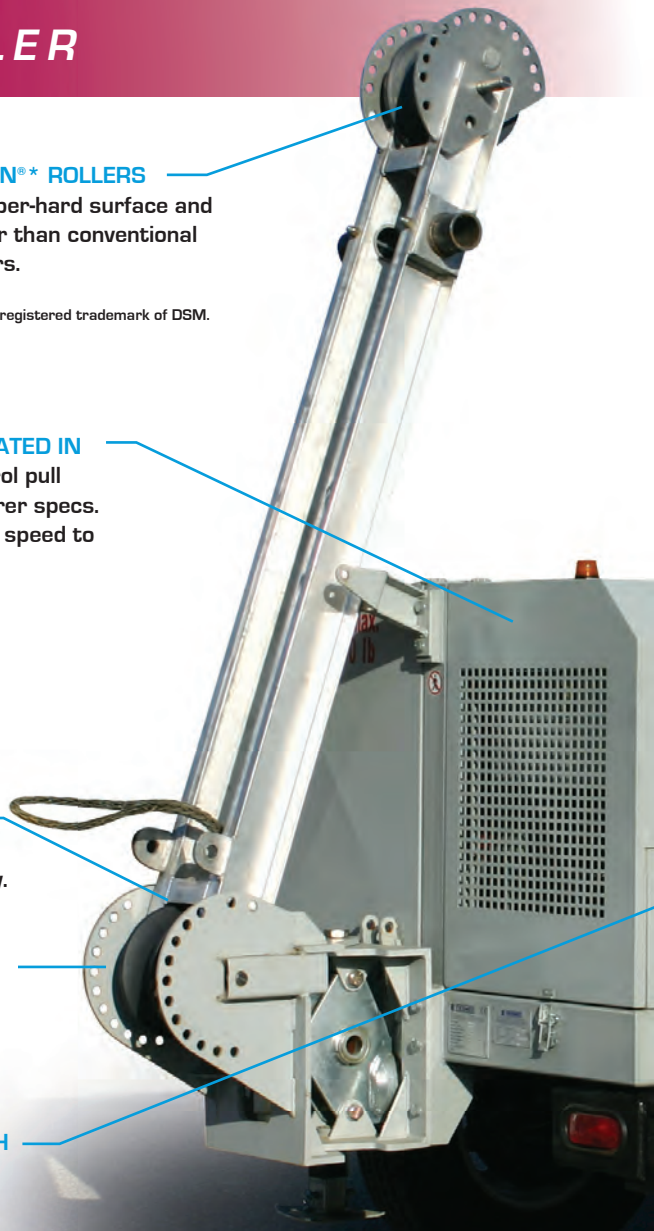
*Nylatron is a registered trademark of DSM.

DYNAMOMETER INTEGRATED IN THE PULLER unit to control pull limits to cable manufacturer specs. Automatically adjusts pull speed to limit pull load during pull.

AUTOMATIC PAY-IN AND PAY-OUT offers more operator control and safety.

ROTATING ARM pivots 15° in either direction aligning easily and accurately.

HYDRAULIC PULLER UNITS WITH OIL COOLER provide smooth operation throughout the pull.



POWER CABLE
INSTALLATION



PULLING POWER

The WDR505 has the capacity to handle most all underground pulling applications with 11,240 lbs. maximum force, & 9,000 lbs. continuous force at a maximum speed of 219 ft./minute.



ANTITWIST ROPE

Advantages include high flexibility, absolute minimal cable twisting and equal distribution of tension among primary wires. Results in increased pulling efficiency, less duct abrasion and can be spliced in the field. 2,600 ft. standard.



THE BRANDS YOU KNOW

Major engine, hydraulic system and trailer components are from widely popular national suppliers meaning excellent reliability and spare parts availability.

WDR505 CABLE PULLER



STRAIGHTFORWARD OPERATOR

CONTROLS allow equipment operator to safely operate the puller with a very short training period.

DIESEL ENGINE provides 45 HP and features easy access maintenance. Water cooled.

QUIET, PLEASE

Noise is reduced due to the self-contained design of the cable puller trailer, and especially because of extensive use of noise abating materials in the engine surround and control panel covers. Adds comfort and safety to your jobs.



FULLY ENCLOSED UNIT

features separate door for operating controls. The WDR505 is safe, convenient and reliable.

ON BOARD TOOLBOX is also fully enclosed.

DOT CERTIFIED TRAILER

ELECTRIC BRAKES with a 7 pin round connector standard.



POWER CABLE
INSTALLATION



CONTROL IN, CONTROL OUT

With the Condux electric over hydraulic joystick, both pay-in and pay-out are in your control. No "freewheeling" necessary.



STABILITY

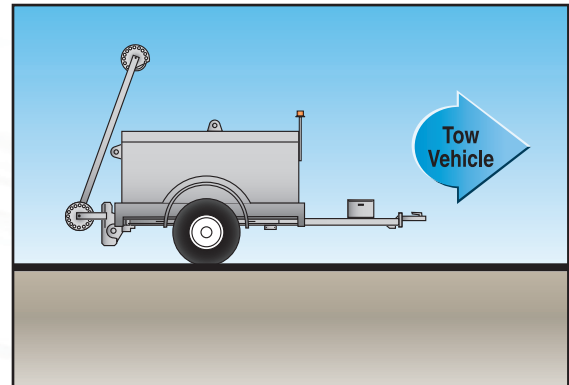
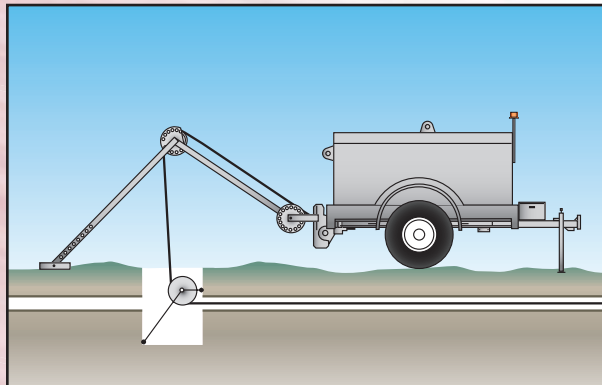
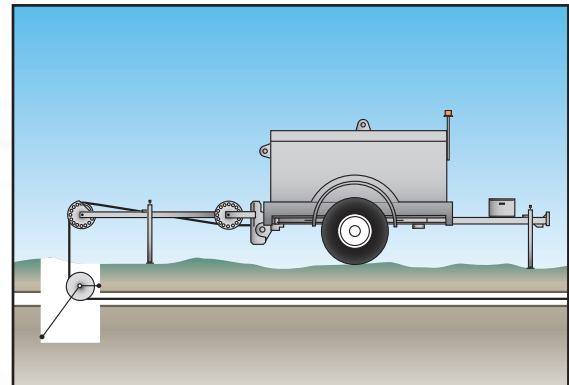
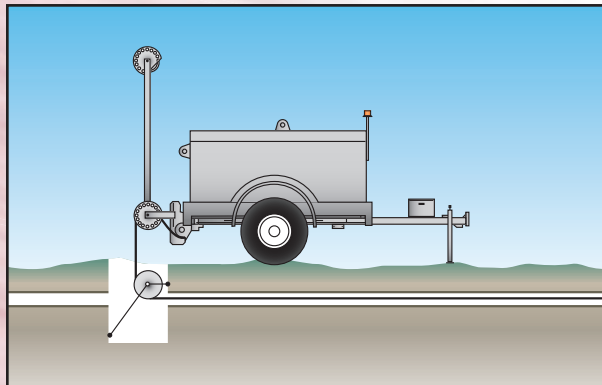
The WDR505 is designed with a low center of gravity, excellent F/R weight distribution, and numerous adjustable supports for optimum stability both on the road and on the job.



EASY TO OPERATE

Condux designed the WDR505 with the operator in mind. Easy-to-read control panel can be accessed separate from the rest of the machine, keeping the operator isolated from noise and moving parts.

Versatility:



Standard Features:

- Closed hydraulic circuit for stepless speed variation in both rotating directions.
- Negative self-acting hydraulic brake.
- Hydraulic dynamometer with set-point and automatic control of maximum pull.
- Hydraulic oil cooling system.
- Noise reduction protection.
- Trailer comes standard with Torsion axle, electric brakes and electric breakaway kit, pintle eye, safety chains, job box and light kit.
- Built-in reel winder with automatic level wind.
- 13³/₄" Bullwheels.

SPECIFICATIONS

MAX LINE PULL, POUNDS	11,250
SPEED AT CONTINUOUS PULL, POUNDS	9,000
HIGH SPEED CONTINUOUS PULL, POUNDS	2,250
PULLING SPEED FEET PER MINUTE	0-219
BULL WHEEL DIA., INCHES	13
MAX ROPE DIA., INCHES	1/2
FEET OF ROPE	2,600
ENGINE TYPE	DIESEL
HORSEPOWER	45
ELECTRICAL SYSTEM	12 Volt
TRAILER LENGTH, INCHES	157
TRAILER WIDTH, INCHES	77
TRAILER HEIGHT, INCHES	114
WEIGHT, POUNDS	4,500

A-Frame

When used with the WDR505 Hydraulic Underground Puller is designed to assist in pulling up to 16 feet of slack. Manufactured with aluminum channel, comes standard with two locking pins.

Specs:

Weight: 125 lbs
Length when closed: 72 inches
Length when fully extended: 100 inches
Work load Capacity: 11,000 lbs

Part Number	Description
08763280	A-Frame Arm Aluminum WDR505 Weld



Quad Block

Designed to fit on the end of the WDR505 Aluminum Rotating Boom Arm when using the A-Frame.

Specs:

Cable Capacity: 3.50 inches
Radius: 18 inches

Part Number	Description
08763270	Quad Block 4x4.75 6 Sheave-Nyl
08763292	WDR505 A-Frame, Quad Block Kit



Antitwist Rope

Part Number	Description	Break Strength
08763360	1/2" x 2600 Antitwist Rope	24,000
08763370	1/2" x 2000 Antitwist Rope	24,000

*Rope is shipped on a 32" diameter wood reel.
*Rope comes standard with one crimped eye.
*2600 foot length rope fits on units with Cummins Engines.



Electronic Information Center

Condux designed the WDR505 with the operator in mind, with the exclusive real-time recording or downloading option for review of critical information during the pull, or afterwards. Get speed, force, distance, date, time and project name documented and printed on demand.

Part Number	Description
21011629	Replacement Chart Paper DLR100
21011510	Replacement Ink DLR100
21001962	New Electronic Control Box DLR300
08763330	Retrofit old 505 units from DLR100 to 300
TV008700041	Replacement paper for DLR 300



Also features:

- Serial port for PC connection
- Integrated graph printer
- Real-time monitoring and display

WDR505 Remote Control Kit

The Condux WDR505 Remote Control Kit allows the user to operate the WDR505 from up to 25 feet away. The WDR505 Remote Control Kit allows the user to pay out and pull back winchline rope and also provides an emergency stop control for safety purposes.

Factory Installation Only.

Part Number	Description
08763400	WDR505 Remote Control Kit





WDR505 CABLE PULLER

Hydraulic Underground Cable Pulling Trailer Kits w/Compressor

Part Number	Description
08763230	WDR505 Underground Pulling Trailer with Compressor
08763230-1	WDR505 Underground Pulling Trailer with Compressor & Electronic Control Box
08763230-1R	WDR505 Underground Pulling Trailer with Compressor & Electronic Control Box & Remote
08763230R	WDR505 Underground Pulling Trailer with Compressor & Remote

NYLATRON®* ROLLERS

have a super-hard surface and last longer than conventional cast rollers.

*Nylatron is a registered trademark of DSM.

FULLY ENCLOSED UNIT

features separate door for operating controls. The WDR505 is safe, convenient and reliable.

AUTOMATIC PAY-IN

AND PAY-OUT offers more operator control and safety.

ROTATING ARM

pivots 15° in either direction aligning easily and accurately.

DYNAMOMETER INTEGRATED IN THE PULLER

unit to control pull limits to cable manufacturer specs. Automatically adjusts pull speed to limit pull load during pull.

TANDEM AXLE TRAILER

for easy maneuvering on job sites.

NOISE ATTENUATED ENGINE

COMPARTMENTS for quiet operation on urban job sites.

HYDRAULIC PULLER UNITS WITH

OIL COOLER provide smooth operation throughout the pull.

POWER CABLE
INSTALLATION

WDR505 CABLE PULLER



DIESEL ENGINE provides 45 HP and features easy access maintenance. Water cooled.

STRAIGHTFORWARD OPERATOR CONTROLS allow equipment operator to safely operate the puller with a very short training period.

QUIET, PLEASE

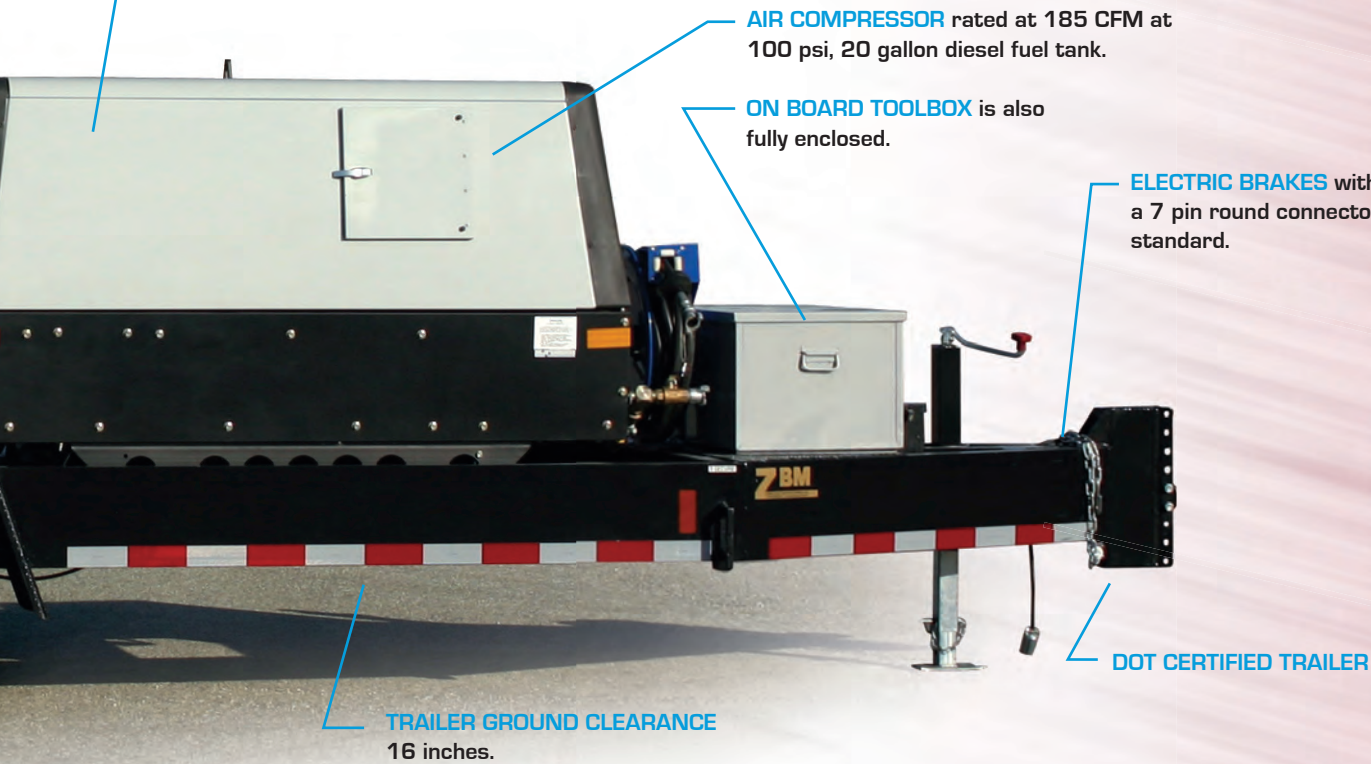
Noise is reduced due to the self-contained design of the cable puller trailer, and especially because of extensive use of noise abating materials in the engine surround and control panel covers. Adds comfort and safety to your jobs.



AIR COMPRESSOR rated at 185 CFM at 100 psi, 20 gallon diesel fuel tank.

ON BOARD TOOLBOX is also fully enclosed.

ELECTRIC BRAKES with a 7 pin round connector standard.



TRAILER GROUND CLEARANCE
16 inches.

DOT CERTIFIED TRAILER

POWER CABLE
INSTALLATION

SPECIFICATIONS

MAX LINE PULL, POUNDS	11,250
SPEED AT CONTINUOUS PULL, POUNDS	9,000
HIGH SPEED CONTINUOUS PULL, POUNDS	2,250
PULLING SPEED FEET PER MINUTE	0-219
BULL WHEEL DIA., INCHES	13
MAX ROPE DIA., INCHES	1/2
FEET OF ROPE	2,600
ENGINE TYPE	DIESEL
HORSEPOWER	45
ELECTRICAL SYSTEM	12 Volt
TRAILER LENGTH, INCHES	252
TRAILER WIDTH, INCHES	77
TRAILER HEIGHT, INCHES	114
WEIGHT, POUNDS	8,500



Flexible Cable Guide with Aluminum Adapters

Cable feeds through the Bell Adapter and exits through the Duct Adapter which fits into the duct. Bell Adapter and Duct Adapter included for specific duct and guide size ordered. **Other lengths available upon request.**

Part Number	Flex Guide Dia.		Flex Guide Length	
	(in)	(mm)	(ft)	(m)
08931009	2	51	9	2.7
08931012	2	51	12	3.6
08934009	4	102	9	2.7
08934012	4	102	12	3.6
08935009	5	127	9	2.7
08935012	5	127	12	3.6
08936009	6	152	9	2.7
08936012	6	152	12	3.6
08988009*	8	203	9	2.7
08988012*	8	203	12	3.6

* Call for lead time.

Duct Adapter

Part Number	Flex. Guide Dia.		Duct Size		OD		ID	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08960200**	2	51	Innerduct		—	—	1.00	25
08931010	2	51	1	25	0.90	23	0.72	18
08931013	2	51	1 1/4	32	1.22	31	1.00	25
08931015	2	51	1 1/2	38	1.44	37	1.19	30
08931020*	2	51	2	51	1.91	49	1.66	42
08934020	4	102	2	51	1.91	49	1.65	42
08934030	4	102	3	76	2.94	75	2.69	68
08934035	4	102	3 1/2	89	3.44	80	3.13	87
08934040*	4	102	4	102	3.94	100	3.69	94
08935020	5	127	2	51	1.98	50	1.75	44
08935030	5	127	3	76	2.98	76	2.75	70
08935035	5	127	3 1/2	89	3.45	88	3.25	83
08935040	5	127	4	102	3.93	100	3.75	95
08935050*	5	127	5	127	4.93	125	4.50	114
08936040	6	152	4	102	3.93	100	3.50	89
08936050	6	152	5	127	4.94	125	4.63	118
08936060*	6	152	6	152	5.94	151	5.63	143
08988080*	8	203	8	203	7.94	202	7.62	194

* Included with cable guide unit above for that specific duct size.

** Tapered and threaded to fit over 1-2" (25-51 mm) innerduct.

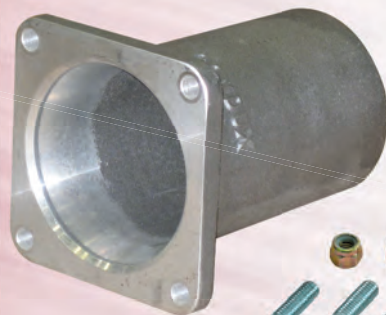
Bell Adapter* (includes mounting bolts)

Part Number	Size		ID	
	(in)	(mm)	(in)	(mm)
08931000	2	51	2.00	51
08934000	4	102	4.00	102
08935000	5	127	5.00	127
08936000	6	152	6.00	152
08988000	8	203	8.00	203

* Included with cable guide unit above for that specific guide size.

Extensions (includes mounting bolts)

Part Number	Flex. Guide Dia.		Extension Length	
	(in)	(mm)	(ft)	(m)
08931503	2	51	3	.9
08931506	2	51	6	1.8
08931509	2	51	9	2.7
08931512	2	51	12	3.6
08934503	4	102	3	.9
08934506	4	102	6	1.8
08934509	4	102	9	2.7
08934512	4	102	12	3.6
08935503	5	127	3	.9
08935506	5	127	6	1.8
08935509	5	127	9	2.7
08935512	5	127	12	3.6
08936503	6	152	3	.9
08936506	6	152	6	1.8
08936509	6	152	9	2.7
08936512	6	152	12	3.6
08988503	8	203	3	.9
08988506	8	203	6	1.8
08988509	8	203	9	2.7
08988512	8	203	12	3.6



Duct Adapter



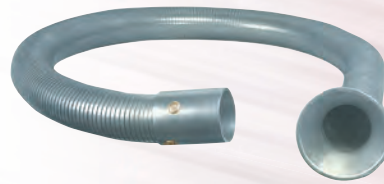
Bell Adapter



Close Clearance Flexible Cable Guides

For guiding cable from the reel into the duct. The cable feeds through the Bell Adapter and exits through the Duct Adapter which fits into the duct. **Duct Adapters ordered separately, see below.** Other lengths available upon request.

Part Number	Flex. Guide Dia.		Flex. Guide Length	
	(in)	(mm)	(ft)	(m)
08040109	4	102	9	2.28
08041009	5	127	9	2.28
08044509	6	152	9	2.28



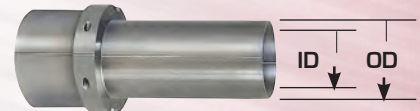
Extensions

Part Number	Flex. Guide Dia.		Extension Length	
	(in)	(mm)	(ft)	(m)
08040203	4	102	3½	3.7
08041103	5	127	3½	3.7
08044603	6	152	3½	3.7

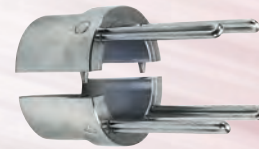


Steel Duct Adapters

Part Number	Duct Adapter Diameter		Duct Size		Style	OD		ID	
	(in)	(mm)	(in)	(mm)		(in)	(mm)	(in)	(mm)
08040300	4	102	3	76	Round	2.93	74	2.68	68
08040400	4	102	3¼	83	Round	3.06	74	2.81	71
08040600	4	102	3½	89	Round	3.43	87	3.18	81
08040800	4	102	4	102	Round	3.81	97	3.62	92
08087200	4	102	5	127	Round	4.81	122	4.63	118
08040900	5	127	4	102	Round	3.87	98	3.69	94
08041300	5	127	5	127	Round	4.81	122	4.62	117
08041200	5	127	6	152	Round	5.81	148	4.62	117
08087000	6	152	5	127	Round	4.81	122	4.62	117
08086800	6	152	6	152	Round	5.81	148	5.62	143
08040133	4	102	3¼	83	Square	—	—	2.81	71
08040136	4	102	3½	89	Square	—	—	3.25	83
08040142	4	102	4	102	Square	—	—	3.62	92



Round Adapter



Square Adapter

POWER CABLE
INSTALLATION

Split Cable Guides

Ease of removal from cable being installed allows for "figure-eight" type installation, so cable remaining on reel can be pulled in a different direction without having to terminate and splice. Ideal for use with pre-connectorized cable. Split feeder is hinged on one side and has a series of flexible latches on the other side to allow full closure.

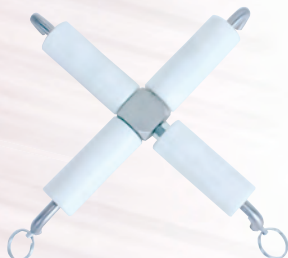
Requires steel duct adapters (above, this page).

Part Number	Split Guide Dia.		Split Guide Length	
	(in)	(mm)	(ft)	(m)
08064700	4	102	7½	2.3

Extension For Split Cable Guide

Part Number	Extension Dia.		Extension Length	
	(in)	(mm)	(ft)	(m)
08064800	4	102	3½	1.1

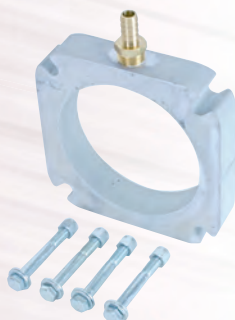
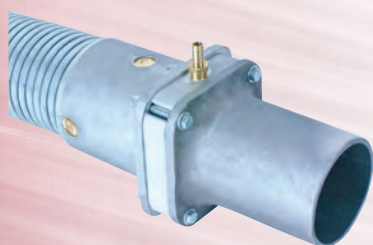




Cable Spreaders

4-6 inch Cable Spreaders attach to the CONDUX 4-6 inch Flex Guides to keep the cable separated as it goes into the flex guide. Comes standard with nylon rollers to help minimize friction and positive locking pins for attaching to the Flex Guide Bells.

Part Number	Description	Bell Size (in)
08041910	Spreader, Cable Bell Adapter	4
08041915	Spreader, Cable Bell Adapter	5
08041920	Spreader, Cable Bell Adapter	6



Lube Adapter Plates for Flex Guides

Lube adapter plates may be used at either the bell end or on the duct adapter end. Simply remove the bell or adapter end and insert lube adapter plate then use the supplied longer bolts to finish the lube adapter plate assembly.

Part Number	Description	Size (in)
08934075	Lube Adapter Plates for Flex Guides	4
08935075	Lube Adapter Plates for Flex Guides	5
08936075	Lube Adapter Plates for Flex Guides	6



5 or 6 Gallon Lube Pump

Lube pump quickly attaches to the lube adapter plate. Comes with four foot of hose. (Longer lengths not supplied) Fits on either a 5 or 6 gallon pail.

Part Number	Description
08931100	5 or 6 Gallon Lube Pump

Jamb Skid

The Condux Jamb Skid is a device for supporting sheaves or quadrant blocks inside a manhole to pull cable into underground conduit.

By positioning the top of the jamb skid against the underside of the manhole opening, and using the camlock foot pedal, set-up can be done in a fraction of the time it takes to install a hanging sheave assembly. Pulling tension actually increases the stability of the Jamb Skid during the pull. No dangerous breakage of chains or straps. The Jamb Skid is especially useful when there are no pulling-in irons available, or when the existing irons do not align correctly with the duct opening. The Jamb Skid can be placed anywhere within a 360° radius inside the manhole.

Constructed of solid aluminum, the Jamb Skid is both strong and lightweight. In most instances it can be installed by one person. The complete unit is created by combining a base unit with one of several extension units, depending upon the height required. Locking 1 1/4" (32 mm) pins, allow the height adjustment of the Jamb Skid. Also, the width adjusts from 7" (178 mm) to 11" (279 mm) to accept all Condux sheave assemblies up through 8" (203 mm). 10,000 lbs. (44,480 N) cable tension load rated.

NOTE: Order base section and choice of extension separately for a complete Jamb Skid unit. Locking pins are included with the base section.

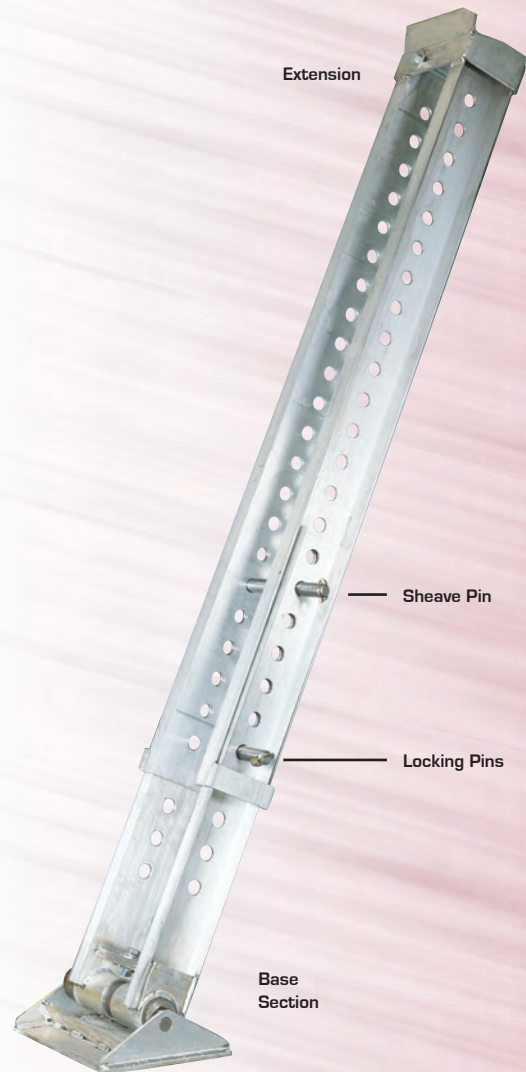
Part Number	Description	Manhole Height Range (in)	(mm)
08097000	58" (1,168 mm) Base Section with locking pins		
08097001	43" (1,092 mm) Extension	63-80	1,244-2,032
08097002	76" (1,930 mm) Extension	78-109	1,981-2,767
08097003	109" (2,769 mm) Extension	107-138	2,718-3,505

Replacement Pins

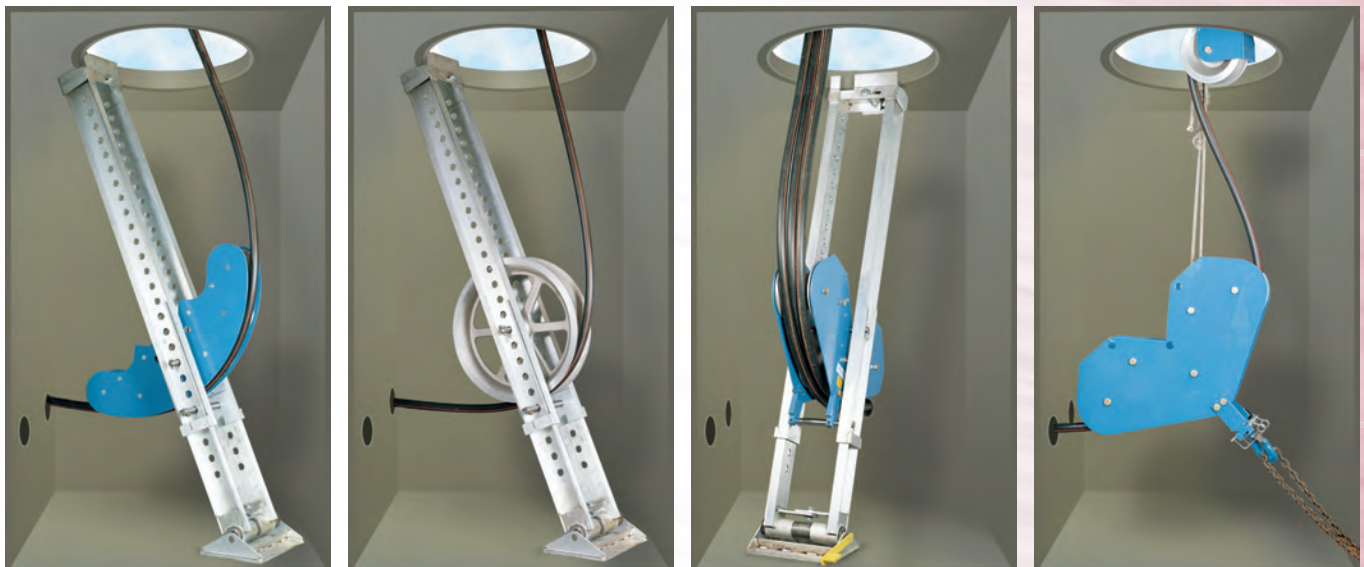
Part Number	Description
08097040	1 1/4" (32 mm) diameter pin
08097060	Locking Pin Kit

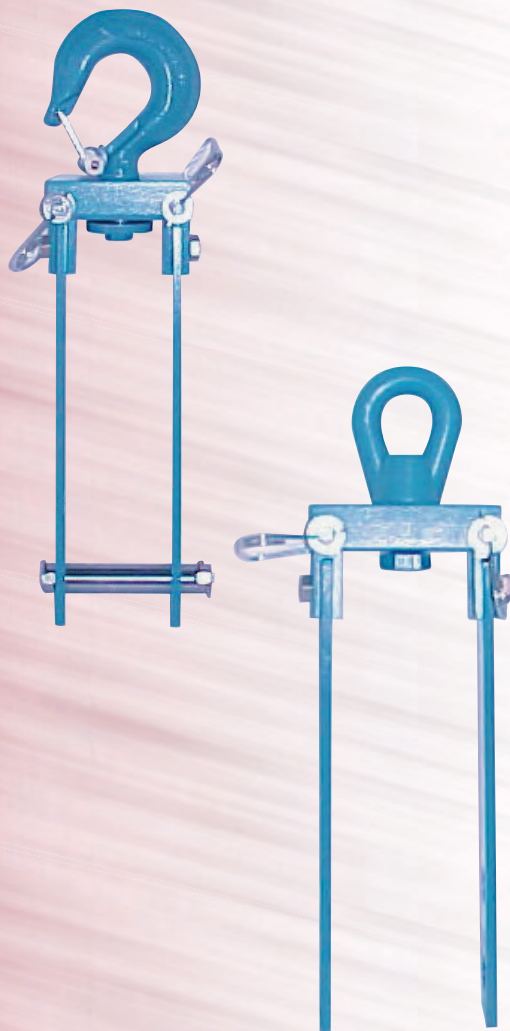
Sheaves

Refer to the chart on page 113 for specifications on sheave products for use with the Condux Jamb Skid.



POWER CABLE
INSTALLATION





Hanger Arms for 10,000 lb. Sheaves

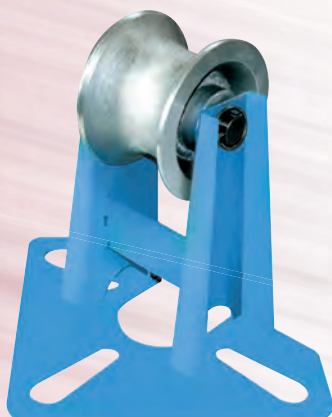
Accessory Hanger Arms for HD Sheaves.

Part Number	Description	Sheave Size	
		(in)	(mm)
08041470	Hanger Arm w/hook & axle	3 x 11	76 x 279
08042470	Hanger Arm w/hook & axle	4 x 11	102 x 179
08042470	Hanger Arm w/hook & axle	4 x 20	102 x 508
08042570	Hanger Arm w/hook & axle	5 x 11	127 x 279
08042570	Hanger Arm w/hook & axle	5 x 20	127 x 508
08082670	Hanger Arm w/hook & axle	6 x 11	152 x 279
08082870	Hanger Arm w/hook & axle	8 x 11	203 x 279
08539245	Hanger Arm w/hook & axle	5 x 26.5	127 x 673

Second Arm for 10,000 lb. Sheaves

Part Number	Description	Sheave Size	
		(in)	(mm)
08041472	Hanger Arm w/eye nut	3 x 11	76 x 279
08042472	Hanger Arm w/eye nut	4 x 11	102 x 179
08042472	Hanger Arm w/eye nut	4 x 20	102 x 508
08042572	Hanger Arm w/eye nut	5 x 11	127 x 179
08042572	Hanger Arm w/eye nut	5 x 20	127 x 508
08082672	Hanger Arm w/eye nut	6 x 11	152 x 279
08082872	Hanger Arm w/eye nut	8 x 11	203 x 279
08539246	Hanger Arm w/eye nut	5 x 26.5	127 x 673

POWER CABLE
INSTALLATION



Light Base Sheave

The light base sheave fits on top of the light pole base. The bolt pattern will fit most light base bolt patterns.

- Used to protect cable from damage when pulling slack
- Powder coated base made of steel with 5" aluminum

Specifications

Height	15"
Weight	25 lbs.
Bolt Circle Capacity	7.8" diameter to 14.8" diameter
Mounting Bolt Diameter	1" diameter at 7.8" bolt circle 1½" at 14.38" bolt circle

Part

Number	Description
08531100	Light Base Sheave

Replacement

Part Numbers	Description
08531101	Base
08539236	5" Sheave
08531105	Shaft
08041905	Clip pins

Hooked Hanger Sheaves

Tie off in the manhole to guide cable into the duct. Also used with alignment arm for cable removal. Hinged yoke for easy cable installation and removal. 10,000 lbs. (44,480 N) cable tension load capacity. See replacement sheave chart for specifications on sheave sizes. Alignment arm sold separately. Replacement Sheaves available. See Specifications and Selection Charts on page 113.

Part Number	Sheave Size	
	(in)	(mm)
08041400	3 x 11	76 x 279
08042400	4 x 11	102 x 279
08042420	4 x 20	102 x 508
08042500	5 x 11	127 x 279
08042520	5 x 20	127 x 508
08042526	5 x 26½	127 x 673
08042527	5 x 26½	127 x 673 w/Light Duty Hanger Arm
08082600	6 x 11	152 x 279
08082800	8 x 11	203 x 279
08045901	Alignment arm for 3, 4, & 5" (76, 102, & 127 mm) sheaves	

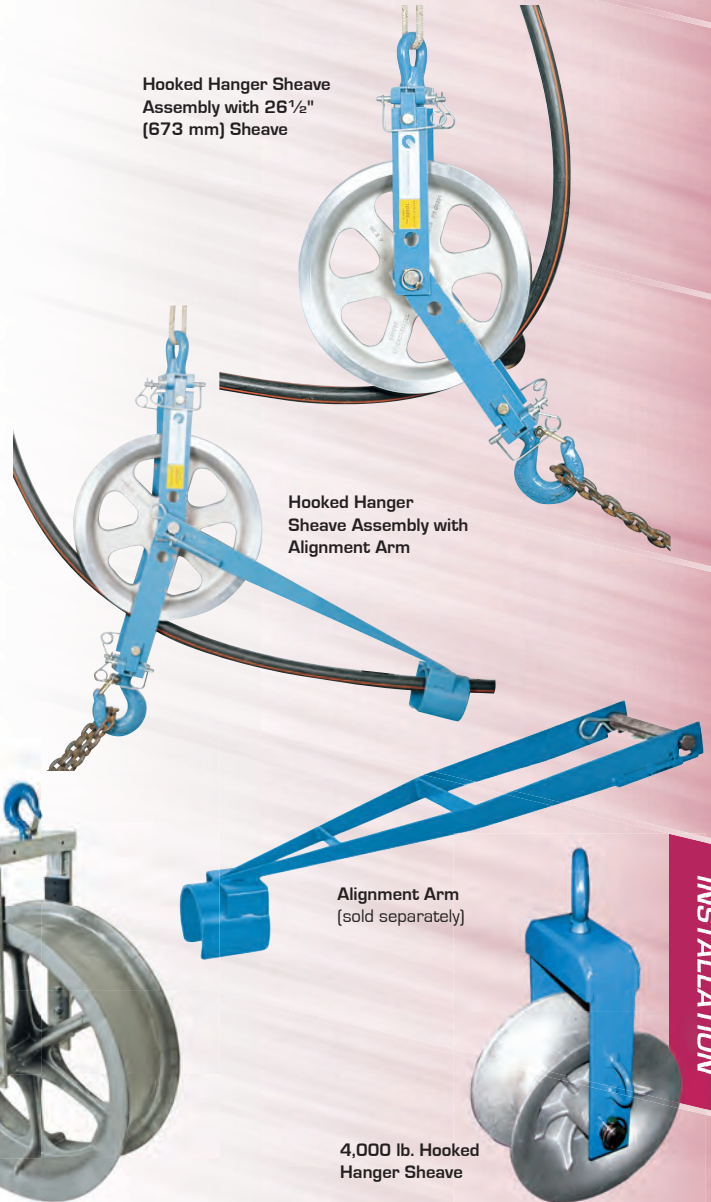
4,000 lb. Hooked Hanger Sheaves

Tie off in manhole to guide cable into and out of duct. 4,000 lbs cable tension load capacity. For less demanding cable pulling applications than Condux 10,000 lbs sheaves. Replacement Sheaves available. See Specifications and Selection Charts on page 113.

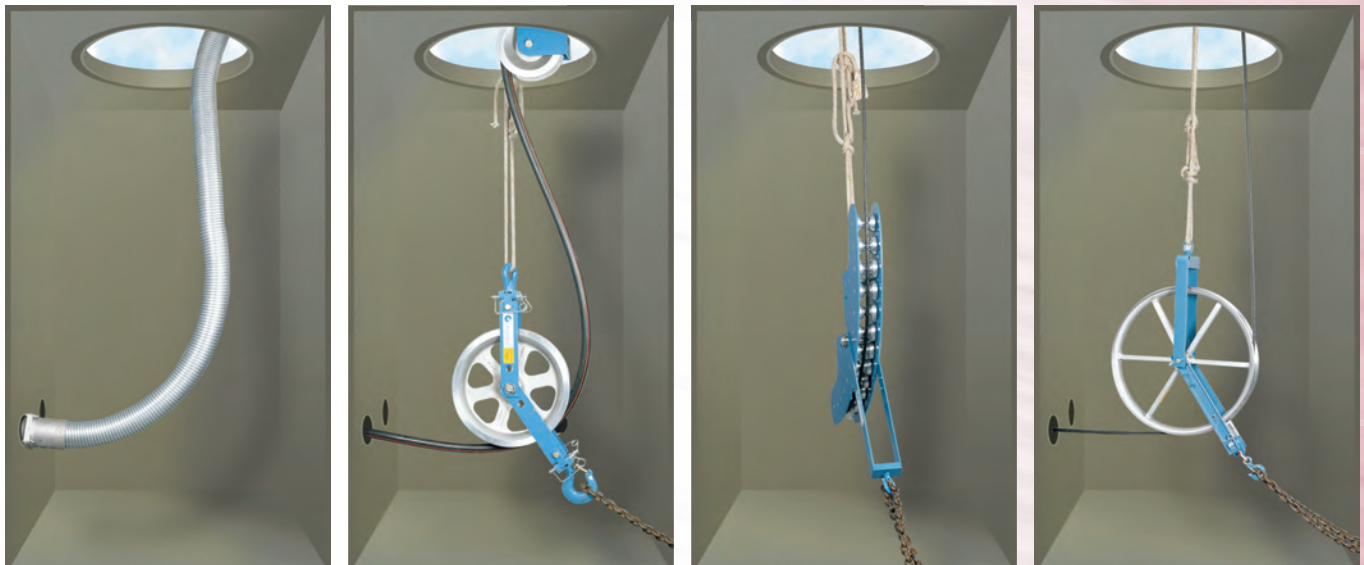
- Steel welded frame
- Nylon cable protectors
- Lightweight
- Cast aluminum sheaves
- Forged hook with 1.12" opening

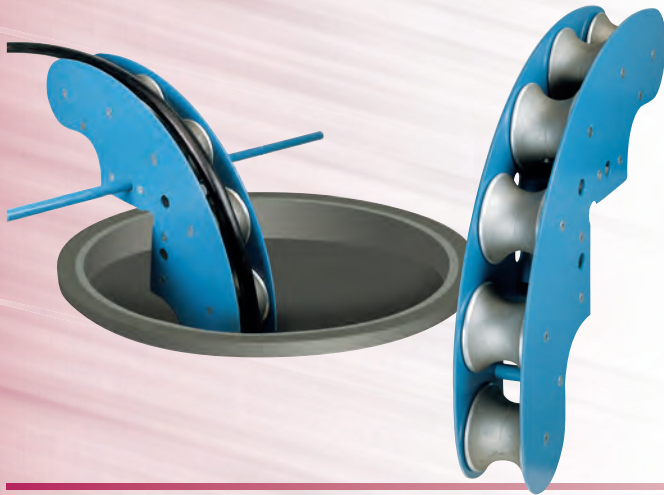
Part Number	Sheave Size		
	(in)	(mm)	
08042611	5 x 11	127 x 279	Aluminum
08042610	5 x 11	127 x 279	Nylatron
08042620	5 x 20	127 x 508	Aluminum
08042626	5 x 26½	127 x 673	Aluminum
08042650	8 x 26	203 x 660	Aluminum

08042670 Second arm for 8"x26" sheave 1,000 lb rating for hanging only
 08042680 Replacement arm for 8"x26" sheave



**POWER CABLE
INSTALLATION**





Heavy Duty Quadrant Block

A series of 6 cast aluminum or 6 Nylatron® sheaves on bronze bearings allow cable to make a gradual 90° turn for easy pulling through manhole opening. Pulling radius of 24.25 inches [616 mm]. Can also be suspended in manhole to provide alignment to duct run. 4,800 lbs. [21,350 N] cable tension load capacity. Support Bar sold separately (see pg. 112). Replacement Sheaves available. See Specifications and Selection Charts on page 113.

Part Number	Nylatron® Part Number	Size		Radius	
		(in)	(mm)	(in)	(mm)
08539000	08539010	3	76	24.25	616
08539100	08539110	4	102	24.25	616
08539200	08539210	5	127	24.25	616
08539710	08539650*	6	152	26.00	660
	08539700	8	200	37.75	959

*NOTE: 10,000 Lbs 26 inch Radius



Hanger Arms

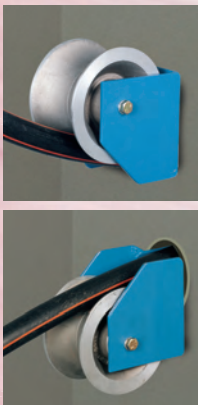
Allows the hanging of the HD Quadrant Blocks in a manhole for more flexible positioning.

Part Number	Description	Used With
08041425	Hanger Arm w/pin-hook	3" HD Quad Block
08042425	Hanger Arm w/pin-hook	4" HD Quad Block
08539240	Hanger Arm w/pin-hook	5" HD Quad Block

Second Arm

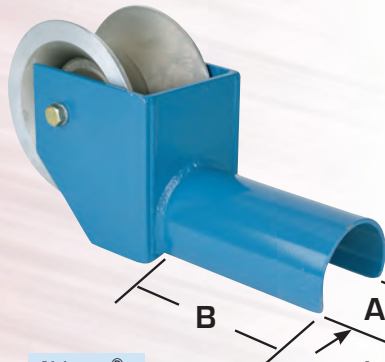
Part Number	Description	Used With
08041430	Hanger Arm w/eye nut	3" HD Quad Block
08042430	Hanger Arm w/eye nut	4" HD Quad Block
08539246	Hanger Arm w/eye nut	5" HD Quad Block

POWER CABLE
INSTALLATION



Cable Feeding Sheaves

Plugs into conduit in manhole wall, guiding cable safely into the conduit regardless of the pulling angle. Replacement Sheaves available. See Specifications and Selection Charts on page 113.



Shown with available
Nylatron® Roller



1.25" Cable Feeding
Sheave

Part Number	Nylatron® Part Number	Size		Slot Width		B Length		I.D. Tube Width		O.D. Tube Width		Load Capacity	
		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lbs)	(N)
08617312	-	1¼	32	0.88	22	5	127	1.06	27	1.19	30	1,500	6,672
08617215	08617415	1½	38	1.04	26	5	127	1.25	32	1.44	37	1,500	6,672
08617220	08617420	2	51	1.38	35	6	152	1.75	44	1.95	50	2,600	11,565
08617225	08617425	2½	63	1.44	37	8	203	2.16	55	2.40	61	2,600	11,565
08617230	08617430	3	76	2.25	57	12	305	2.62	67	2.95	75	4,800	21,350
08617270*	-	3	89	2.24	57	12	305	2.50	64	2.78	71	4,800	21,350
08617235	08617435	3½	89	2.75	70	12	305	3.00	76	3.38	86	4,800	21,350
08617200	08617440	4	102	3.00	76	12	305	3.50	89	3.95	100	6,500	28,912
08617340*	08617441*	4	102	3.00	76	12	305	3.25	83	3.65	93	6,500	28,912
08617250	08617450	5	127	3.75	95	14	356	4.50	114	4.90	125	6,500	28,912
08617260	08617460	6	114	4.50	114	14	356	5.37	136	5.90	150	6,500	28,912
08617360*	08617461*	6	114	4.50	114	14	356	5.00	127	5.56	141	6,500	28,912
08617280	08617480	8	203	6.00	152	14	356	7.18	182	7.94	202	6,500	28,912

*Fits sch 80 pipe.

NOTE: Nylatron® is a registered trademark of DSM.

60 Degree Quad Block

A series of 6 Nylatron® sheaves allow cable to make a gradual 60° turn for easy pulling through manhole or pull box openings. Pulling radius of 24.25 inches (616 mm). 4,000 lbs. (17,792 N) cable tension load capacity. Support bar sold separately.

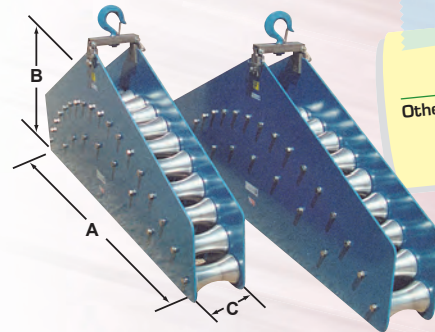
Part Number	Size	
	(in)	(mm)
08539220	8	203



Fairlead Quadrant Block

Originally designed to install transpacific fiber optic cable, these quadrant blocks provide a 60" (1,524 mm) pulling radius to guide any type of cable. 18 machined rollers on bronze bearings, 8" (203 mm) wide by 5.5" (140 mm) in diameter, allow the cable to make a gradual 90° turn for easy cable installation. 10,000 lb. (44,480 N) capacity. Replacement Sheaves available, contact factory for information.

Part Number	Description	A		B		C	
		(in)	(mm)	(in)	(mm)	(in)	(mm)
08094500	Fairlead Quadrant Block	96	2438	36	914	9	229

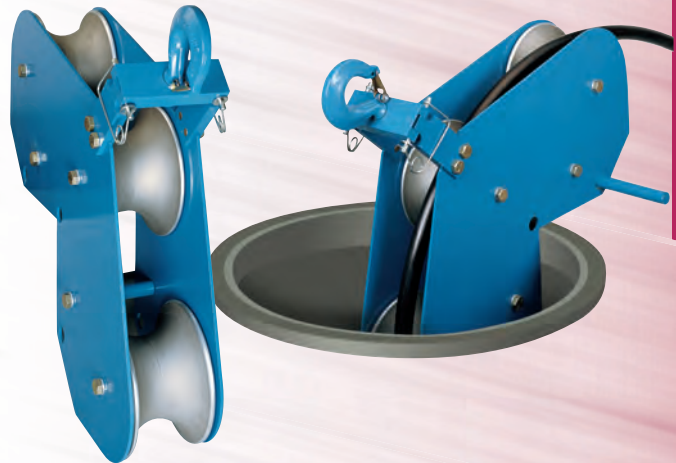


3 Sheave Cable Guide

Three cast aluminum or Nylatron® sheaves on bronze bearings allow a gradual 90° turn for easy pulling through manhole opening. Pulling radius of 24" (610 mm), the cable guide will sit on manhole edge, suspend in manhole, or fit the jamb skid. 10,000 lbs. (44,480 N) cable tension load capacity. Support bar sold separately (see pg. 112). Replacement Sheaves available. See Specifications and Selection Charts on page 113.

Part Number	Nylatron® Part Number	Size		Weight
		(in)	(mm)	
08539600	08539610	6	152	105
08539800*	08539810*	8	203	124

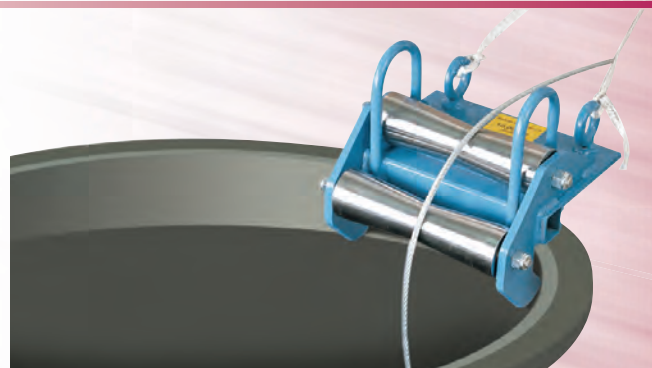
*NOTE: To fit the jamb skid, the four bolts holding the hook must be removed.

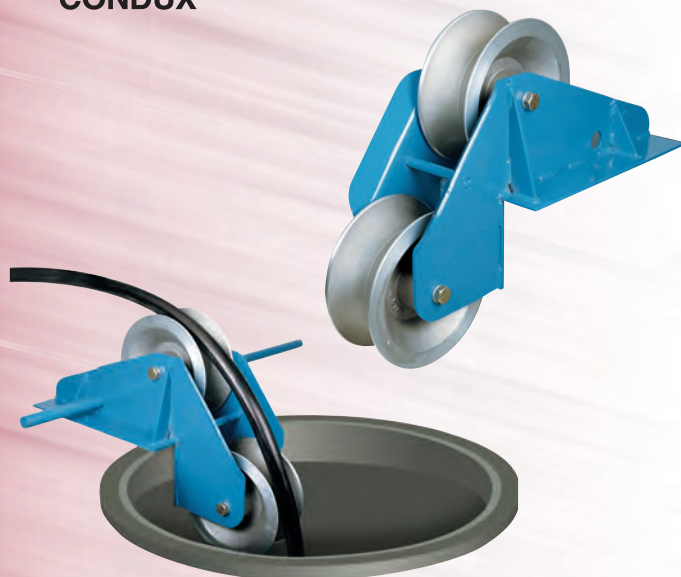


Mini Corner Cable Guide

Features two hardened steel rollers that guide steel winch line over sharp edges. It is small but sturdy, allowing for easy handling and set-up along with heavy duty capacities. 10,000 lbs. (44,480 N) cable tension load capacity. Replacement Sheaves available, contact factory for information.

Part Number	Description
08045000	Mini Corner Cable Guide





Corner Cable Guides

Aluminum and Nylatron® sheaves for pulling cable into manholes. 5,000 lbs. (22,240 N) cable tension load capacity. See Specifications and Selection Charts on page 113 for Replacement Sheaves. Support bar sold separately [see below].

Part Number	Nylatron® Part Number	Size	
		(in)	(mm)
08040000	08040025	3	76
08043100	08043125	4	102
08043200	08043225	5	127
08088600	08088625	6	152
08088800	08088825	8	203

NOTE: Nylatron® is a registered trademark of DSM.



Cable Bending Shoe

Protects cable from corner abrasion during pulling operations. Rugged, high-impact plastic.

Part Number	Description	I.D.	O.D.
08042100	Plastic Bending Shoe	3.19	3.44



Nylon Cable Protector

Flanged, split tube to insert in duct end and protect cable from damage during installation. Also can be left in place for permanent protection.

Part Number	Description
08042301	1"-2½" (25-63 mm) Duct
08042300	3"-6" (76-152 mm) Duct

Support Bar

Use to support quadrant blocks or cable guides at street level.

Part Number	Description
08091440	1¼" (32 mm) x 4' (1.2 m) Steel Bar

Chains

Used to tie off cable guides in the manhole. Not to be used for overhead lifting.

Part Number	Description
08066301	4' (1.2 m) Chain, Double Hook, ⅝" (9 mm) Alloy Links, 7,100 lbs. (31,581 N) capacity
08066300	8' (2.4 m) Chain, Double Hook, ⅝" (9 mm) Alloy Links, 7,100 lbs. (31,581 N) capacity

Aluminum Split Bells

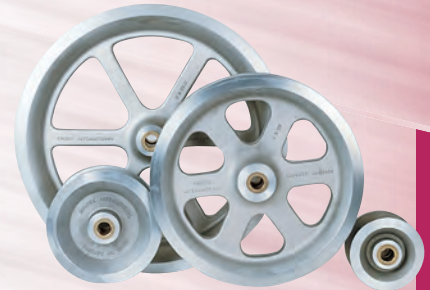
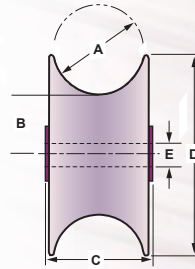
Plugs into conduit in manhole wall, guiding cable safely into the conduit regardless of the pulling angle.

Part Number	Size		Tube Length		Tube I.D.		Tube OD	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08041520	2	51	8	203	1.625	41	1.875	48
08041530	3	76	8	203	2.625	67	2.875	73
08041535	3½	89	8	203	3.125	79	3.375	88
08041540	4	102	8	203	3.625	92	3.875	98
08041550	5	127	8	203	4.625	117	4.875	124
08041560	6	152	8	203	5.625	143	5.875	149
08041564	6	152	12	304	5.625	143	5.875	149
08041570	8	203	12	304	7.875	200	7.500	191
08041515	4	102	15	381	3.625	92	3.875	98
08041518	4	102	18	457	3.625	92	3.875	98



Replacement Sheaves

Refer to this chart for specifications on sheave sizes for these products: 10,000 lb. Hooked Hanger Sheave, 4,000 lb. Hooked Hanger Sheave, Cable Feeding Sheave, Corner Cable Guide, Heavy Duty Quadrant Block, Fiber Optic Quad Block, Fiber Optic Hanger Block, 3 Sheave Cable Guide, Fiber Optic Sheave Mount, Overhead and Underground Fiber Optic Cable Sheave and Jamb Skid.



Sheaves Specifications

Part Number	Nylatron® Part Number	Sheave Size		Maximum Cable O.D. A		Min. Bending Radius B		Max. Sheave Width C		Maximum Sheave O.D. D		Shaft Dia. E	
		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08539308	08539304	1 x 3	25 x 76	1.50	38	.75	19	3.00	76	3.00	76	.62	15
08539036	08539037	3 x 7	76 x 178	3.00	76	2.25	57	3.72	94	7.00	203	1.25	32
08539136	08539137	4 x 7	102 x 178	4.00	102	2.25	57	4.31	109	7.00	203	1.25	32
08539236	08539237	5 x 7	127 x 178	5.00	127	2.25	57	5.13	130	7.00	203	1.25	32
08046611	08046612	3 x 11	76 x 279	3.00	76	4.25	107	3.75	95	11.00	279	1.25	32
08046711	08046712	4 x 11	102 x 279	4.00	102	3.75	95	4.75	120	11.00	279	1.25	32
08046811	08046812	5 x 11	127 x 279	5.00	127	3.25	82	5.75	146	11.00	279	1.25	32
08087811	08087812	6 x 11	152 x 279	6.00	152	3.12	79	6.75	171	11.00	279	1.25	32
08087911	08087912	8 x 11	203 x 279	8.25	209	2.75	69	8.75	222	11.00	279	1.25	32
08065411		4 x 20	102 x 508	4.25	107	8.50	215	4.75	120	20.00	508	1.25	32
08042911		5 x 20	127 x 508	5.00	127	8.00	203	5.75	146	20.00	508	1.25	32
08637743		3 x 24	76 x 610	1.38	35	11.12	282	4.00	102	24.12	613	1.00	25
08043011		5 x 26½	127 x 673	5.00	127	11.31	287	5.75	146	26.50	376	1.25	32

4,000 lb Sheaves

Part Number	Nylatron® Part Number	Sheave Size		Maximum Cable O.D. A		Min. Bending Radius B		Max. Sheave Width C		Maximum Sheave O.D. D		Shaft Dia. E	
		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
08042612		5 x 11	127 x 279	5.00	127	3.25	82	5.88	149	11.00	279	1.25	32
08042621		5 x 20	127 x 508	5.00	127	8.00	203	5.88	149	20.00	508	1.25	32
08042627		5 x 26½	127 x 673	5.00	127	11.31	287	5.75	146	26.50	673	1.25	32
08042651		8 x 26	203 x 660	8.00	203	11.25	286	8.50	216	26.00	660	1.25	32

= Nylatron® Replacement Sheaves or Nylatron® Products.

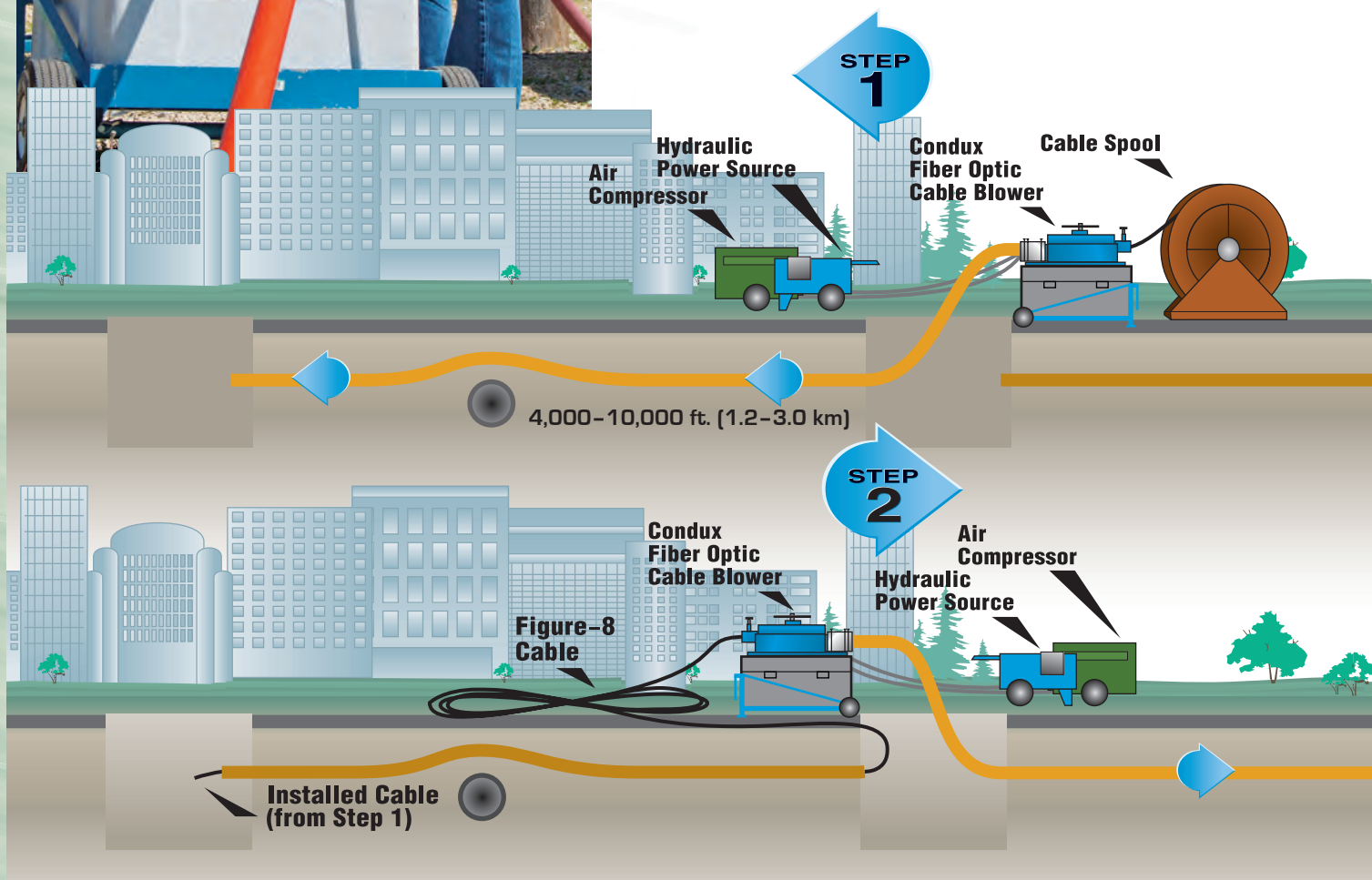
NOTE: Nylatron® is a registered trademark of DSM.

An Efficient Method

Fiber optic cable blowing is one of the most efficient and safe means of installing fiber optic cable. A pressurized blowing system uses two forces to install fiber optic cable. A pulling force combines with a pushing force to cause the cable to travel through the duct like air. Today's fiber optic cable installations benefit from the pressurized blowing system because it provides greater installation speeds with less stress than traditional cable pulling.

The cable blower unit utilizes a hydraulic power system and an air compressor to generate the desired push and pull forces. Working together, this dual power supply provides greater blowing power with lower air consumption. Controls and gauges on the cable blower allow the operator to monitor the forces being exerted on the cable. The operator can make adjustments to make sure the forces being exerted on the cable are working with one another, not against one another.

Blowing minimizes the stress placed on cable during installation. Because the cable blower provides both pulling and pushing force, stress is balanced. For example, at 135 psi (9.3 bar) in 2 inch (51 mm) duct only 430 lbs (1,913 N) of pulling force is generated.



FIBER OPTIC CABLE BLOWING METHOD



Blowing vs. Pulling

Blowing cable is different from pulling cable in several ways. During cable pulling, the cable is kept taut and only pull force is applied. It travels in a straight line until a bend or curve changes its path. The cable ultimately rubs on each of the bends or curves, creating friction. As more pulling force is added to counteract the friction, additional stress is added to the cable.

Compared to a pulling application, blowing cable is faster and puts the cable under less stress.

Through cable blowing, contractors are able to install more cable per day with less manpower. This means increased productivity and decreased cost.

How To: The Typical Process

The typical cable blowing process consists of several steps. **First**, the duct integrity is checked. It is pressurized to check for leaks. In order to ensure a successful installation, the duct must be airtight and free of obstruction. Then a small amount of lubricant is poured in the duct and a foam carrier is blown through the run, confirming its integrity.

Second, the cable is prepared for installation. A cable carrier is attached to the end of the fiber optic cable. Corresponding size cable carriers are available to match the specific duct ID. The cable is fed through the cable blower and into the duct.

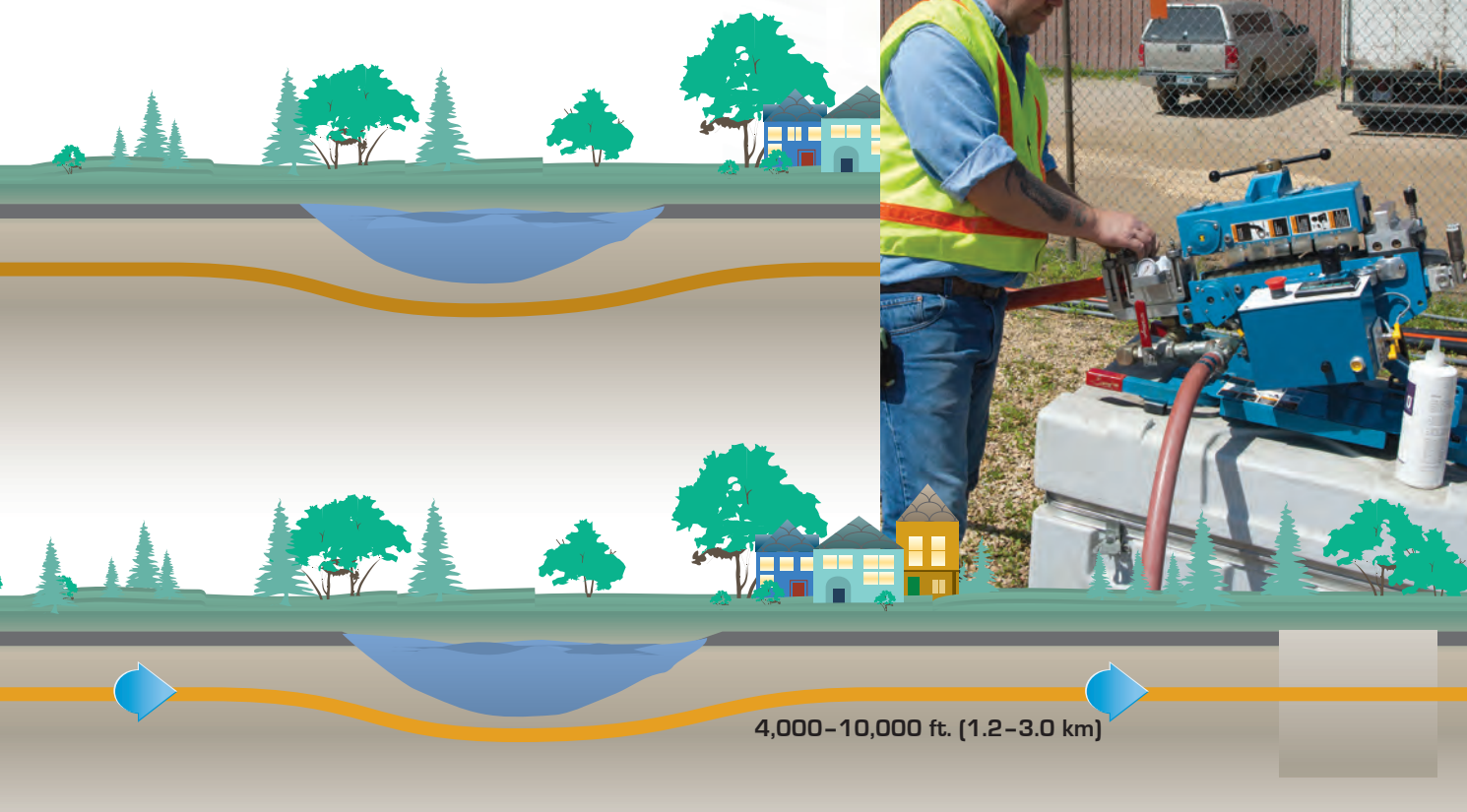
Third, the duct is lubricated. Lubricant is added in front of the cable carrier and behind the cable carrier.

Fourth, the blowing process begins. Pressure (compressed air) is applied to the duct behind the cable carrier. As the pressure tries to equalize, it seeks out the path of least resistance and creates a pushing force on the cable carrier, causing forward motion. The moving cable carrier, in turn, exerts a pulling force on the cable and begins to move it through the duct.

Meanwhile, an additional pushing force is applied to the cable by a hydraulic powered tractor drive on the cable blower. Use of a hydraulic tractor drive reduces air consumption requirements from the air compressor. Plus, the push force from the tractor drive provides cable slack, reduces back tension and keeps the cable loose and flexible. Friction and resistance are then reduced and the cable can travel freely through the duct work.

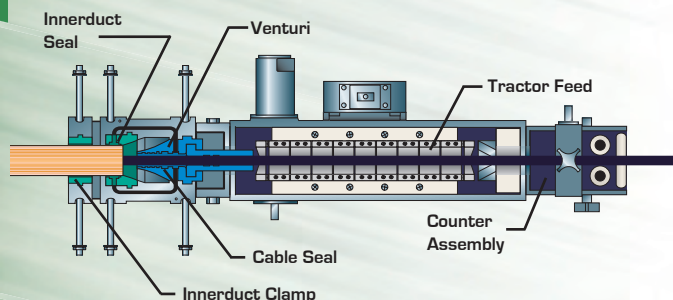


FIBER CABLE
INSTALLATION





FIBER CABLE
INSTALLATION



Fiber Optic Cable Blower

The Condux Gulfstream™ 400 Deluxe Fiber Optic Cable Blower is ideal for "Last Mile" Fiber Installations

As a leader in the manufacture of cable installation tools and equipment, Condux offers a superior Fiber Optic Cable Blower that is compact and lightweight, making it ideally suited for your most difficult job sites and "last mile" fiber installations. An updated design has increased portability and made operation easier than ever.

Fast

Install up to 300 feet of fiber optic cable per minute (90 m/min). The cable travels at the same speed as the air! A carrier is always attached to the front of the cable. Compressed air propels the carrier and cable through the air-tight sealed duct. And, because air flow and tractor drive speed can be adjusted, you can install fiber at the rate which best suits any application.

Total Control

The Condux Gulfstream 400 Deluxe Fiber Optic Cable Blower features longer tractor feed grip area for less stress on the cable, and a manual cylinder on the tractor feed to better control down pressure. Condux's patented traction control system shuts down the blower when problems with cable slippage or duct blockage are detected, adding safety to every job and preventing costly cable damage.

A speed and distance counter with LCD read-out, as well as convenient hydraulic and pneumatic controls, come standard with the Condux Fiber Optic Cable Blower. Blowers equipped with the Advanced Electronic Control System will shut down if slippage, over-speed or cable stoppage is detected.

Versatility

The Condux Gulfstream 400 Deluxe Fiber Optic Cable Blower operates efficiently with most common combinations of cable and innerduct sizes. The Condux Gulfstream 400 Deluxe Fiber Optic Cable Blower is designed for the installation of fiber optic cables with diameters from 0.23" (5.8 mm) to 1.13" (28.7 mm) into micro duct 10 mm to 18 mm and regular innerduct ½" (13 mm) to 2" (51 mm) with metric sizes available.

The correct size cable seals and venturi must be determined for the cable being installed. Also necessary are the correct size innerduct seals, clamps and carrier for the innerduct being occupied.

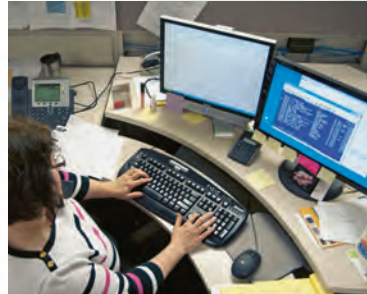
Use the charts on page 120 to determine the correct size components for your specific cable and innerduct installation project. Use the size reference to ensure the correct selection each time the Cable Blower is used.

FIBER OPTIC CABLE BLOWER



Superior Service & Support

The Condux Fiber Optic Cable Blower is precision manufactured in the USA by Condux International, Inc. Over four decades of technical experience and superior customer service is behind every product sold.



Smart Design, Easy to Operate

Convenient tilting of the Condux Gulfstream 400 Deluxe Fiber Optic Cable Blower for ease of pouring in lubricant. Easily install cable into rollers, then close and you are ready to start.

Hydraulic & pneumatic controls are ergonomically designed and conveniently located. No special maintenance is required.



Lightweight & Portable, Everything's Inside

The Condux Gulfstream 400 Deluxe Fiber Optic Cable Blower is extremely easy to handle and transport. The blower and all accessories including hydraulic hoses, cable and conduit packs and seal kits conveniently fit into a lightweight job box with wheels.

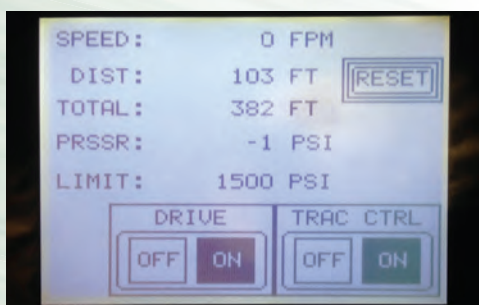


FIBER CABLE
INSTALLATION



Belt Tractor Drive

Single belt tractor drive provides for smooth and quiet operation. The belt can be easily removed and replaced making maintenance fast and simple.



Advanced Electronic Controls

Standard system monitors and displays the cable and tractor drive speeds. Will automatically shut off the blower in these conditions:

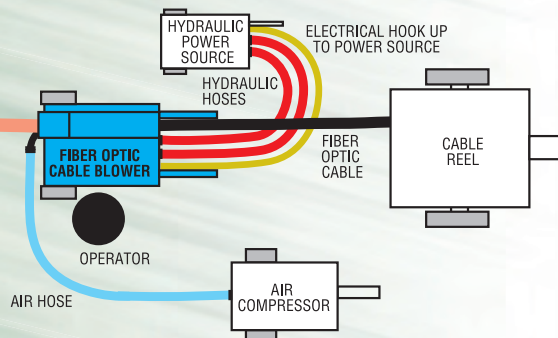
- Over pressure limit
- Slippage
- Over-speed
- Cable stoppage

Part No.	Description
08781020	Electronic Control Box
08781022	Electronic Control Box & Transducer Update
08781023	Transducer



Hinged Air Block & Conduit Clamp

The Condux Fiber Optic Cable Blower features a hinged air block and a hinged conduit clamp that are easily secured and opened with the use of a ratchet.



Dual Power System

Designed to operate with two power supplies that work in tandem in order to produce the most steady, efficient and reliable power to blow cable. A hydraulically-powered tractor drive supplements the pressurized air force, thus decreasing the cfm requirements of the air compressor. This means greater cable blowing efficiency using a much smaller air compressor.

FIBER OPTIC CABLE BLOWER



The Condux Gulfstream™ 400 Deluxe Fiber Optic Cable Blower is easy to order. The base unit comes complete with a job box, hydraulic hoses and everything listed below in the "Common Parts Package." Complete the order by specifying the cable pack(s) and duct pack(s) necessary to meet your exact job requirements. A full description of the cable and duct packs is on page 120. You may order additional cable and duct packs at any time.

Part No.	Description
08782000	Fiber Optic Cable Blower
08782010	Fiber Optic Cable Blower Package 1A (includes Cable Packs #1-4, and Duct Packs #2-5)
08782008	Fiber Optic Cable Blower Package 1B (includes Cable Packs #1-4, and Duct Packs #4, 5, 6)

Non Electric Version (No Electronic Control Box or Sensors)

Part No.	Description
08782040	Fiber Optic Cable Blower
08782042	Fiber Optic Cable Blower Package 1A (includes Cable Packs #1-4, and Duct Packs #2-5)
08782044	Fiber Optic Cable Blower Package 1B (includes Cable Packs #1-4, and Duct Packs #4, 5, 6)

Select your Cable Pack(s): (minimum one required)

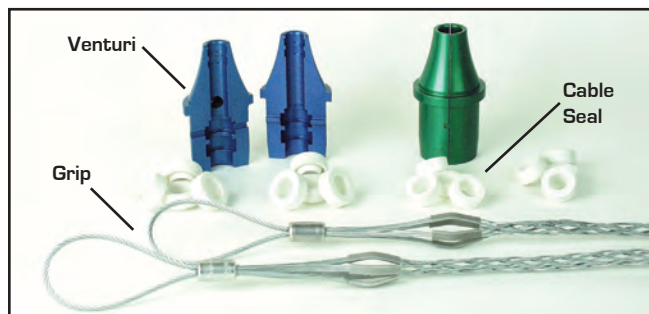
Part No.	Description
08780393	Cable Pack #1 — 0.23-0.34 in (5.8-8.8 mm)
08780394	Cable Pack #2 — 0.35-0.60 in (8.9-15.2 mm)
08780395	Cable Pack #3 — 0.61-0.85 in (15.3-21.6 mm)
08780396	Cable Pack #4 — 0.86-1.13 in (21.7-28.7 mm)
08781117	Cable Pack #5 — 10.4 x 5.5 mm (Nylatron Venturi for flat fiber cables)
08781118	Cable Pack #6 — 15.2 x 6.7 mm (Nylatron Venturi for flat fiber cables)

Select your Duct Pack(s): (minimum one required)

Part No.	Description
08780795	Duct Pack #1 — .5" SDR 11/13.5
08780680	Duct Pack #2 — .75" SDR 11/13.5
08780386	Duct Pack #3 — 1" SDR 11/13.5
08780392	Duct Pack #4 — 1.25" SDR 11/13.5
08780397	Duct Pack #5 — 1.5" SDR 11/13.5
08780930	Duct Pack #6 — 2" SDR 11/13.5
08781120	Duct Pack #7 — 20 mm
08780240	Duct Pack #8 — 25 mm
08780385	Duct Pack #9 — 32 mm
08780387	Duct Pack #10 — 36 mm
08780388	Duct Pack #11 — 37 mm
08780389	Duct Pack #12 — 1.25" TRUE
08780390	Duct Pack #13 — 40 mm
08780391	Duct Pack #14 — 42 mm
08780545	Duct Pack #15 — 44 mm
08780575	Duct Pack #16 — 50 mm

Cable and Duct Packs

Cable Packs include Cable Grips (for end of cable), Pneumatic Venturies and Cable Seals. See page 120 for ordering information.



Condux Gulfstream™ 400 Deluxe Fiber Optic Cable Blower shown with: Common Parts Package (included with all units).

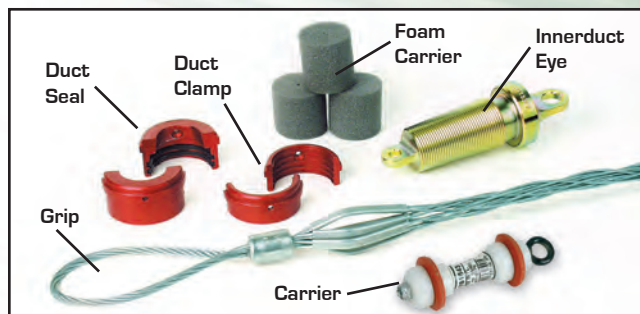


Common Parts Package

Common Parts Package (included with all blower units) includes:

Part Number	Description
02290222	Small Case w/foam Insert
02284600	Small Divided Case w/Parts Label
08780126	O-Ring Seal Kit
02286416	2 Pin Extension Cord
08230800	Canvas Bag
08780223	Venturi Air Plug (Seal Disk)
08780424	Capscrew Set (12-M04-07)
08017000	5/8" x 600 lb Swivel (16 mm x 2,669 N)
08761248	Power Cord Assembly Lighter Plug
08780384	20' (6 m) Hydraulic Hose Set
02289620	Wrench, 3/4"
02290168	Standard & Metric Hex Key Set
02284000	3/8" Drive Ratchet
02290520	3/8" Deep Well Socket

Duct Packs include Cable Grip (for end of inner-duct), Cable Carrier, Innerduct Clamps, Innerduct Seals, Innerduct Pulling Eye & Foam Carriers. See page 120 for ordering information.



FIBER CABLE
INSTALLATION

Cable Packs: Gulfstream™ 400

PACK	CABLE PACK		VENTURI		CABLE SEAL		CABLE GRIP	
	Cable OD	P/N	Cable OD	P/N	Cable OD	P/N	Cable OD	P/N
1	0.23-0.34 (5.8-8.8)	08780393 Pack #1	0.23-0.34 (5.8-8.8)	08780281	0.23-0.28 (5.8-7.2)	08780406	0.21-0.35 (5.3-8.9)	08643754 033-29-1194
					0.29-0.34 (7.3-8.8)	08780407		
2	0.35-0.60 (8.9-15.2)	08780394 Pack #2	0.35-0.48 (8.9-12.2)	08781115	0.35-0.42 (8.9-10.7)	08761424	0.32-0.48 (8.1-12.2)	08643755 033-29-1195
					0.43-0.48 (10.8-12.2)	08761425		
			0.49-0.60 (12.3-15.2)	08781116	0.49-0.55 (12.3-14.0)	08761426	0.42-0.61 (10.7-15.5)	08643756 033-29-1196
					0.56-0.60 (14.1-15.2)	08761427		
3	0.61-0.85 (15.3-21.6)	08780395 Pack #3	0.61-0.73 (15.3-18.5)	08780284	0.61-0.67 (15.3-17.0)	08761428	0.53-0.74 (13.5-18.8)	08643757 033-29-1197
					0.68-0.73 (17.1-18.5)	08761429		
			0.74-0.85 (18.6-21.6)	08780285	0.74-0.79 (18.6-20.1)	08761430	0.64-0.87 (16.3-22.1)	08643758 033-29-1198
					0.80-0.85 (20.2-21.6)	08761431		
4	0.86-1.13 (21.7-28.7)	08780396 Pack #4	0.86-0.97 (21.7-24.6)	08780286	0.86-0.92 (21.7-23.4)	08761432	0.75-1.00 (19.1-25.4)	08643759 033-29-1199
					0.93-0.97 (23.5-24.6)	08761433		
			0.98-1.13 (24.7-28.7)	08780446	0.98-1.04 (24.7-26.4)	08761434	1.00-1.24 (25.4-31.5)	08643137 033-03-013
					1.05-1.13 (26.5-28.7)	08761435		
5	10.4 x 5.5 mm	08781117 Pack #5	(Nylatron Venturi for flat fiber cables)					
6	15.2 x 6.7 mm	08781118 Pack #6	(Nylatron Venturi for flat fiber cables)					

Duct Packs: Gulfstream™ 400 & Mini-Blower/Pusher

PACK	DUCT PACK		DUCT CLAMP		DUCT SEAL		CARRIER		FOAM CARRIER		CABLE GRIP		INNERDUCT EYE P/N and ID Range
	Duct Size	P/N	Duct OD	P/N	Duct OD	P/N	Carrier	P/N	Carrier OD	P/N	Duct OD	P/N	
1	1/2" SDR 11-13.5	08780795 Pack #1	0.84 (21.30)	08780791	0.84 (21.30)	08780786	0.688 (17.50)	08780793	0.75 (19.0)	08078300	.75-.99 (19-25)	08643131 033-03-012	08761840 .71-.87 (18-22)
2	3/4" SDR 11-13.5	08780680 Pack #2	1.050 (26.6)	08780682	1.050 (26.6)	08780685	0.75 (19.0)	08780690	0.75 (19.0)	08078300	1.00-1.24 (25.4-31.5)	08643137 033-03-013	08761840 .71-.87 (18-22)
3	1" SDR 11/13.5	08780386 Pack #3	1.315 (33.4)	08780369	1.315 (33.4)	08780307	1.121 (28.5)	08761250	1.25 (31.8)	08761439	1.00-1.24 (25.4-31.5)	08643137 033-03-013	08761842 1.06-1.43 (27-37)
4	1.25" SDR 11/13.5	08780392 Pack #4	1.660 (42.2)	08780375	1.660 (42.2)	08780051	1.414 (35.9)	08761255	1.50 (38.1)	08761440	1.50-1.99 (38.1-50.5)	08643149 033-03-016	08761842 1.06-1.43 (27-37)
5	1.5" SDR 11/13.5	08780397 Pack #5	1.900 (48.3)	08780404	1.900 (48.3)	08780398	1.618 (41.1)	08761260	1.75 (44.5)	08761441	1.50-1.99 (38.1-50.5)	08643149 033-03-016	08761844 1.37-1.68 (35-43)
6	2" SDR 11/13.5	08780930 Pack #6	—	—	—	—	2.023 (51.4)	08761265	2.00 (50.8)	08761442	2.00-2.49 (50.8-63.2)	08643155 033-03-017	08761846 1.37-1.68 (35-43)
7	20 mm	08781120 Pack #7	0.787 (20.0)	08781122	0.787 (20.0)	08781121	0.688 (17.5)	08780793	1.00 (25.4)	08761444	.75-.99 (19.0-25.1)	08643131 033-03-012	08914007 .551-.813 (14-20.65)
8	25 mm	08780240 Pack #8	0.984 (25.0)	08780099	0.984 (25.0)	08780134	0.787 (20.0)	08780230	1.25 (31.8)	08761439	1.00-1.24 (25.4-31.5)	08643137 033-03-013	08761840 .71-.89 (18-22)
9	32 mm	08780385 Pack #9	1.260 (32.0)	08780368	1.260 (32.0)	08780306	1.063 (27.0)	08761560	1.25 (31.8)	08761439	1.25-1.49 (31.8-37.8)	08643143 033-03-015	08761842 1.06-1.43 (27-37)
10	36 mm	08780387 Pack #10	1.417 (36.0)	08780370	1.417 (36.0)	08780308	1.181 (30.0) 1.220 (31.0)	08761643 08761555	1.25 (31.8)	08761439	1.25-1.49 (31.8-37.8)	08643143 033-03-015	08761842 1.06-1.43 (27-37)
11	37 mm	08780388 Pack #11	1.457 (37.0)	08780371	1.457 (37.0)	08780309	1.220 (31.0)	08761555	1.25 (31.8)	08761439	1.25-1.49 (31.8-37.8)	08643143 033-03-015	08761842 1.06-1.43 (27-37)
12	1.25" TRUE	08780389 Pack #12	1.500 (38.1)	08780372	1.500 (38.1)	08780333	1.250 (31.7)	08761670	1.50 (38.1)	08761440	1.25-1.49 (31.8-37.8)	08643143 033-03-015	08761842 1.06-1.43 (27-37)
13	40 mm	08780390 Pack #13	1.575 (40.0)	08780373	1.575 (40.0)	08780334	1.299 (33.0)	08761525	1.50 (38.1)	08761440	1.50-1.99 (38.1-50.5)	08643149 033-03-016	08761842 1.06-1.43 (27-37)
14	42 mm	08780391 Pack #14	1.653 (42.0)	08780374	1.653 (42.0)	08780335	1.378 (35.0)	08761660	1.50 (38.1)	08761440	1.50-1.99 (38.1-50.5)	08643149 033-03-016	08761842 1.06-1.43 (27-37)
15	44 mm	08780545 Pack #15	1.732 (44.0)	08780546	1.732 (44.0)	08780547	1.496 (38.0)	08761786	1.50 (38.1)	08761440	1.50-1.99 (38.1-50.5)	08643149 033-03-016	08761842 1.06-1.43 (27-37)
16	50 mm	08780575 Pack #16	1.969 (50.0)	08780435	1.969 (50.0)	08780431	1.606 (40.0)	08761579	2.00 (50.8)	08761442	1.50-1.99 (38.1-50.5)	08643149 033-03-016	08761844 1.37-1.68 (35-43)

Compressed Air Cooler

Extreme heat can inhibit fiber optic cable installation and damage fiber optic cable and duct. When cable blowing, air is compressed and heat is generated. For example, air that enters a compressor at 100° F (37° C) exits the compressor at 350° F (176° C). At this temperature, fiber optic cable jacket and duct softening can occur. Heat problems can also occur if the duct run is exposed to direct sunlight. The Condux Compressed Air Cooler can help prevent heat damage to fiber optic cable and duct during cable blowing operations.

The Condux Compressed Air Cooler cools compressed air from a maximum temperature of 350° F (176° C), to within 20° F (11° C) of the ambient temperature. For example, if the ambient temperature is 100° F (37° C), air from the air compressor enters the air cooler at 350° F (176° C). That air will leave the cooler at approximately 120° F (49° C). Cooling the air reduces the chances of heat damage to the cable and duct.

The Condux Compressed Air Cooler also removes moisture from the air. Water from humid air can dilute cable blowing lubricant and collect in the duct run.

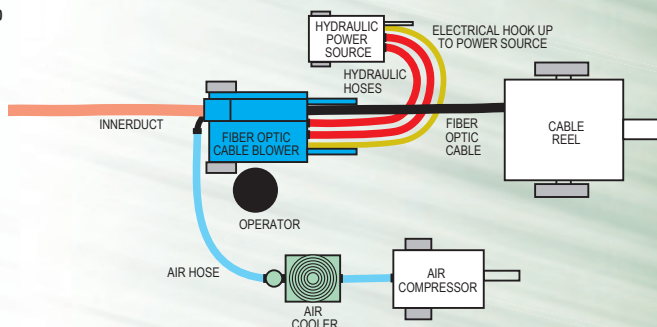
Use of the Condux Compressed Air Cooler is recommended when ambient air temperatures reach 90° F (32° C) or more and/or the duct is exposed to direct sunlight.

Minimum ambient operating temperature: 35° F (1° C)

Maximum inlet operating temperature: 350° F (176° C)

Maximum operating pressure: 250 psi (17 bar)

Part Number	Description
08761700	Air Cooler



How Much Air?

Pressure

During pressurized blowing applications, as the duct size increases and the pressure remains constant, the pulling force increases geometrically. When used properly, the amount of pulling force placed on the cable by the Condux Fiber Optic Cable Blower cable carrier remains below the cable's recommended maximum pulling tension for two reasons. First, the blower is designed for use with a maximum 2 inch (51 mm) diameter duct. Second, the maximum amount of pressure applied by the blower during installation never exceeds 150 psi (10.3 bar).

At that pressure, with a 2 inch (51 mm) duct, a maximum pulling tension of 482 lbs. (2,145 N) can be generated on the cable by the cable carrier. This is well below the 600 lbs. (2,668 N) recommended maximum pulling tension for most cable types. Ducts smaller than 2 inches (51 mm) or pressures lower than 150 psi (10.3 bar) will result in lower maximum pulling tensions.

Flow

Duct size also determines the compressor flow needed for proper installation. For innerducts from 1-1¼ inches (25-31 mm) in diameter, a 175-275 SCFM (5-8 cu meters/min) compressor is recommended. For innerducts from 1½-2 inches (38-51 mm) in diameter, a 275-375 SCFM (8-11 cu meters/min) compressor is recommended. Compressor flow should be doubled if the distance exceeds 6,000-8,000 feet (1.8-2.4 km).



Multiple Micro Duct Installation Kits

Condux Multiple Micro Duct Installation Kits allow you to install up to 5-10/8 micro ducts, 4-12/10 micro ducts or 4-12.7 micro ducts into an existing innerduct, when used with the Condux Gulfstream™ 400 Deluxe Fiber Optic Cable Blower.

Part Number	Description
08780710	10/8 Multiple Micro Duct Installation Kit
08780712	12/10 Multiple Micro Duct Installation Kit
08780770	12.7 Multiple Micro Duct Installation Kit
08780723	Flat Belt for Flat Fiber



10/8 Kit		
Part No.	Qty	Description
08645705	1	(1) Cable Grip
08780720	1	(1) Lower Belt
08780721	1	(1) Upper Belt
08780724	1	(1) Rear Guide Assembly
08780735	1	(1) 5-Hole Venturi
08780739	1	(3) Venturi Plugs
08780740	1	(5) Duct-Fill Plugs
08780741	1	(5) Duct-Cap Plugs
08780742	1	(1) Rear Guide
08780748	1	(5) Proofing Balls

12/10 Kit		
Part No.	Qty	Description
08645705	1	(1) Cable Grip
08780722	1	(1) Lower Belt
08780722	1	(1) Upper Belt
08780724	1	(1) Rear Guide Assembly
08780725	1	(1) 4-Hole Venturi
08780729	1	(3) Venturi Plugs
08780730	1	(4) Duct-Fill Plugs
08780731	1	(4) Duct-Cap Plugs
08780732	1	(1) Rear Guide
08780750	1	(5) Proofing Balls

12.7 Kit		
Part No.	Qty	Description
08645705	1	(1) Cable Grip
08780722	1	(1) Lower Belt
08780722	1	(1) Upper Belt
08780724	1	(1) Rear Guide Assembly
08780732	1	(1) Rear Guide
08780750	1	(5) Proofing Balls
08780771	1	(1) 4-Hole Venturi
08780772	1	(3) Venturi Plugs
08780774	1	(4) Duct-Cap Plugs
08780776	1	(4) Duct-Fill Plugs

NOTE: [] Quantities included per set.

Micro Duct Pressure Gauge Kit

Use the Micro Duct Pressure Gauge Kit in conjunction with Air Valve Plugs for pressurizing Micro Duct to prevent kinking and crushing during installation.

Part Number	Description
08780705	Micro Duct Pressure Gauge



Kit Includes:
Pressure gauge
Universal claw adapter

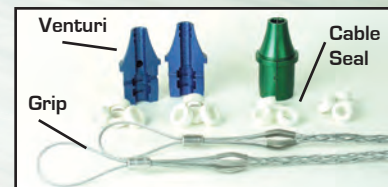
Micro Duct Packs: Gulfstream™ 400 & Mini-Blower/Pusher

Duct Size OD (MM)	Part Number	Duct Clamp	Duct Seal	INNERDUCT EYE	
				ID Range	P/N
10	08764140	08764142	08764143	5-9 mm	08913547
12	08764110	08764112	08764113	10-12 mm	08913545
12.7	08764150	08764151	08764153	10-12 mm	08913545
14	08764120	08764122	08764123	10-12 mm	08913545
16	08764130	08764132	08764133	10-12 mm	08913545
18	08781110	08781106	08781101	13-15 mm	08913538
20	08781120	08781122	08781121	14-20.65 mm	08914007



Cable Packs for Micro Fiber: Gulfstream™ 400

Pack	Cable Pack		Venturi		Cable Seal	
	Cable OD	P/N	Cable OD	P/N	Cable OD	P/N
1	0.23-0.34 (5.8-8.8)	08780393 Pack #1	0.23-0.34 (5.8-8.8)	08780281	0.23-0.28 (5.8-7.2)	08780406
					0.29-0.34 (7.3-8.8)	08780407
2	0.35-0.60 (8.9-15.2)	08780394 Pack #2	0.35-0.48 (8.9-12.2)	08781115	0.35-0.42 (8.9-10.7)	08761424
					0.43-0.48 (10.8-12.2)	08761425
			0.49-0.60 (12.3-15.2)	08781116	0.49-0.55 (12.3-14.0)	08761426
					0.56-0.60 (14.1-15.2)	08761427



Micro Fiber Cable Seal Kit

Part Number	Description
08764090	Micro Fiber Cable Seal Kit

Seal kit comes with the following items:

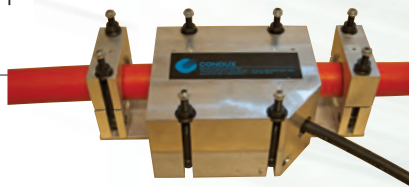
Replacement Push-On Retainers		Replacement Disc Carriers			
Part No.	Description	Part No.	Description	Part No.	Description
08764091K	1.5 mm	08764118K	8 mm	02284200	Loctite
08764092K	2.0 mm	08764128K	10 mm	02284600	Calipers
08764093K	2.5 mm	08764138K	12 mm		
08764094K	3.0 mm	08764148K	14 mm		



Y-Block

The Condux "Y"-Block is designed for installing a micro duct or fiber cable into and existing occupied duct, when coupled to the Condux Fiber Optic Cable Blower.

Part No.	Description
08782300	Y-Block



Common Parts Kit

Common Parts Kit

Common Parts Package (included with all Y-Blocks) includes:

Part No.	Description	QTY	Part No.	Description	QTY
02283800	3/32" Hex Ball Driver	1	08780424	Machine Screws Kit	1
02284000	3/16" Drive Ratchet	1	08782316	Block, Cable Seal SM	1
02290520	9/16" Hex Socket	1	08782317	Block, Cable Seal LG	1
08761868	Cable Shuttle 1 1/4"	1	08782319	Manual	1
08761869	Cable Shuttle 1 1/2"	1	08782318	Dlx Y-block Case Foam	1
08780126	Seal Kit Replacement	1	02290222	Molded Storage Case	1

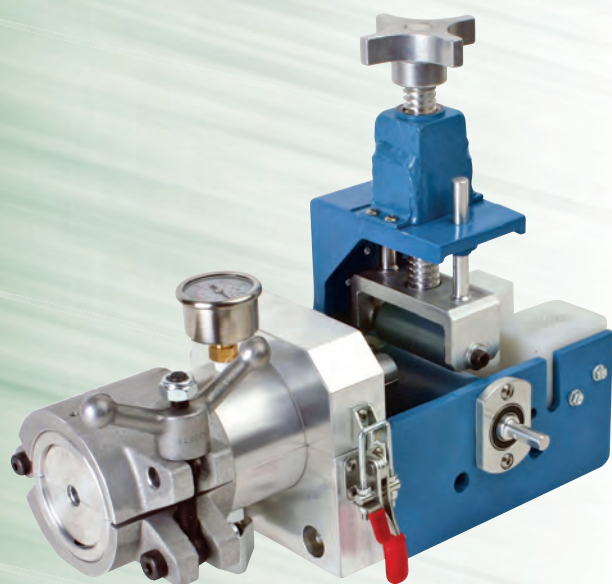
Features & Benefits

- Portable
- Easy to Use
- Duct Range 1.315 - 2.375 OD
- Cable Seal Range 0.35 - 0.90 OD
- Aluminum Construction
- Built-in Carrying Handles
- Canvas Storage Bag

Y-Block Duct Packs (sold separately)

(Each duct pack comes with 2-seals & 2-clamps).

Part Number	Description	Duct OD
08782302	DUCT PK,Y-BLOCK 1"	1.315
08782304	DUCT PK,Y-BLOCK 1 1/4"	1.660
08782306	DUCT PK,Y-BLOCK 1 1/2"	1.900
08782308	DUCT PK,Y-BLOCK 2"	2.375
08782324	DUCT PK,Y-BLOCK 25mm	25mm
08782326	DUCT PK,Y-BLOCK 32mm	32mm
08782328	DUCT PK,Y-BLOCK 40mm	40mm
08782330	DUCT PK,Y-BLOCK 50mm	50mm



Mini-Blower/Pusher

The Mini-Blower/Pusher from Condux is the lightweight, portable solution for easy installation of micro fiber and traditional fiber optic cable. The compact unit is ideally suited for your most difficult job sites and "last mile" fiber installations. An updated design has made operation easier than ever.

Backed by years of fiber blowing experience, the Mini-Blower/Pusher is designed for the installation of fiber optic cables with diameters from 0.23" (5.8 mm) to 0.50" (12.7 mm) into micro duct 10 mm to 18 mm or traditional duct from 0.50" (12.7 mm) to 2" (50.8 mm).

Part Number	Description
08780800	Mini-Blower/Pusher

Replacement Parts

Part Number	Description
08081320	Flat Roller for Flat Fiber
08081319	V-Grooved Roller Bottom
08081313	Top Roller Sleeve

See page 125 for Cable & Duct Packs.



Job Box with Kit & Job Box

The Mini-Blower/Pusher is easy to handle and transport. The blower and all accessories including cable and conduit packs and seal kits conveniently fit into a lightweight job box. There are two different Mini-Blower/Pusher Job Box with Kit options to choose from. The Kit as shown to the left: includes 12 mm and 12.7 mm duct packs and cable packs 1 & 2 in the Mini-Blower/Pusher cable pack chart on page 125.

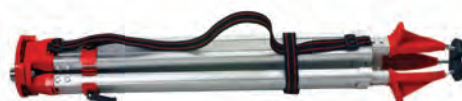
Part Number	Description
08780801	Mini-Blower/Pusher Job Box with Kit for 12 mm & 12.7 mm duct and includes cable packs 1 & 2 in the Mini-Blower/Pusher cable pack chart on page 141 (08780802, 08780804)
08780865	Mini-Blower/Pusher Job Box with Kit for 3/4" & 1 1/4" duct and includes cable packs 1, 2 & 3 in the Mini-Blower/Pusher cable pack chart on page 141 (08780802, 08780804, 08780806)
08780860	Job Box



Heavy Duty Tripod

The Mini-Blower/Pusher mounts easily to the surveyor style tripod, which adds stability and versatility to fiber optic cable installations.

Part Number	Description
08780850	Heavy Duty Tripod



Pneumatic Drill Drive "Y" Connector

A "Y" Connector air hose option allows for the use of a pneumatic drill drive configuration. Unit also comes with variable pressure control.



Part Number	Description
08780855	"Y" Connector with hose assembly
08780856	"Y" Connector only

DUCT PACKS: GULFSTREAM™ 400 & MINI-BLOWER/PUSHER

PACK	DUCT PACK		DUCT CLAMP		DUCT SEAL		CARRIER		FOAM CARRIER		CABLE GRIP		INNERDUCT EYE
	Duct Size	P/N	Duct OD	P/N	Duct OD	P/N	Carrier	P/N	Carrier OD	P/N	Duct OD	P/N	
1	1/8" SDR 11-13.5	08780795 Pack #1	0.84 [21.30]	08780791	0.84 [21.30]	08780786	0.688 [17.50]	08780793	0.75 [19.0]	08078300	.75-.99 [19-25]	08643131 033-03-012	08761840 .71-.87 [18-22]
2	3/4" SDR 11-13.5	08780680 Pack #2	1.050 [26.6]	08780682	1.050 [26.6]	08780685	0.75 [19.0]	08780690	0.75 [19.0]	08078300	1.00-1.24 [25.4-31.5]	08643137 033-03-013	08761840 .71-.87 [18-22]
3	1" SDR 11-13.5	08780386 Pack #3	1.315 [33.4]	08780369	1.315 [33.4]	08780307	1.121 [28.5]	08761250	1.25 [31.8]	08761439	1.00-1.24 [25.4-31.5]	08643137 033-03-013	08761842 1.06-1.43 [27-37]
4	1.25" SDR 11-13.5	08780392 Pack #4	1.660 [42.2]	08780375	1.660 [42.2]	08780051	1.414 [35.9]	08761255	1.50 [38.1]	08761440	1.50-1.99 [38.1-50.5]	08643149 033-03-016	08761842 1.06-1.43 [27-37]
5	1.5" SDR 11-13.5	08780397 Pack #5	1.900 [48.3]	08780404	1.900 [48.3]	08780398	1.618 [41.1]	08761260	1.75 [44.5]	08761441	1.50-1.99 [38.1-50.5]	08643149 033-03-016	08761844 1.37-1.68 [35-43]
6	2" SDR 11-13.5	08780930 Pack #6	—	—	—	—	2.023 [51.4]	08761265	2.00 [50.8]	08761442	2.00-2.49 [50.8-63.2]	08643155 033-03-017	08761846 1.37-1.68 [35-43]
7	20 mm	08781120 Pack #7	0.787 [20.0]	08781122	0.787 [20.0]	08781121	0.688 [17.5]	08780793	1.00 [25.4]	08761444	.75-.99 [19.1-25.1]	08643131 033-03-012	08914007 .55-.81 [14-20.6]
8	25 mm	08780240 Pack #8	0.984 [25.0]	08780099	0.984 [25.0]	08780134	0.787 [20.0]	08780230	1.25 [31.8]	08761439	1.00-1.24 [25.4-31.5]	08643137 033-03-013	08761840 .71-.89 [18-22]
9	32 mm	08780385 Pack #9	1.260 [32.0]	08780368	1.260 [32.0]	08780306	1.063 [27.0]	08761560	1.25 [31.8]	08761439	1.25-1.49 [31.8-37.8]	08643143 033-03-015	08761842 1.06-1.43 [27-37]
10	36 mm	08780387 Pack #10	1.417 [36.0]	08780370	1.417 [36.0]	08780308	1.181 [30.0] 1.220 [31.0]	08761643 08761555	1.25 [31.8]	08761439	1.25-1.49 [31.8-37.8]	08643143 033-03-015	08761842 1.06-1.43 [27-37]
11	37 mm	08780388 Pack #11	1.457 [37.0]	08780371	1.457 [37.0]	08780309	1.220 [31.0]	08761555	1.25 [31.8]	08761439	1.25-1.49 [31.8-37.8]	08643143 033-03-015	08761842 1.06-1.43 [27-37]
12	1.25" TRUE	08780389 Pack #12	1.500 [38.1]	08780372	1.500 [38.1]	08780333	1.250 [31.7]	08761670	1.50 [38.1]	08761440	1.25-1.49 [31.8-37.8]	08643143 033-03-015	08761842 1.06-1.43 [27-37]
13	40 mm	08780390 Pack #13	1.575 [40.0]	08780373	1.575 [40.0]	08780334	1.299 [33.0]	08761579	1.50 [38.1]	08761440	1.50-1.99 [38.1-50.5]	08643149 033-03-016	08761842 1.06-1.43 [27-37]
14	42 mm	08780391 Pack #14	1.653 [42.0]	08780374	1.653 [42.0]	08780335	1.378 [35.0]	08761660	1.50 [38.1]	08761440	1.50-1.99 [38.1-50.5]	08643149 033-03-016	08761842 1.06-1.43 [27-37]
15	44 mm	08780545 Pack #15	1.732 [44.0]	08780546	1.732 [44.0]	08780547	1.496 [38.0]	08761786	1.50 [38.1]	08761440	1.50-1.99 [38.1-50.5]	08643149 033-03-016	08761842 1.06-1.43 [27-37]
16	50 mm	08780575 Pack #16	1.969 [50.0]	08780435	1.969 [50.0]	08780431	1.606 [40.0]	08761579	2.00 [50.8]	08761442	1.50-1.99 [38.1-50.5]	08643149 033-03-016	08761844 1.37-1.68 [35-43]

MICRO DUCT PACKS: GULFSTREAM™ 400 & MINI-BLOWER/PUSHER

Duct Size OD (MM)	Part Number	Duct Clamp	Duct Seal	ID Range	INNERDUCT EYE P/N
10	08764140	08764142	08764143	5-9 mm	08913547
12	08764110	08764112	08764113	10-12 mm	08913545
12.7	08764150	08764151	08764153	10-12 mm	08913545
14	08764120	08764122	08764123	10-12 mm	08913545
16	08764130	08764132	08764133	10-12 mm	08913545
18	08781110	08781106	08781101	13-15 mm	08913538
20	08781120	08781122	08781121	14-20.65 mm	08914007

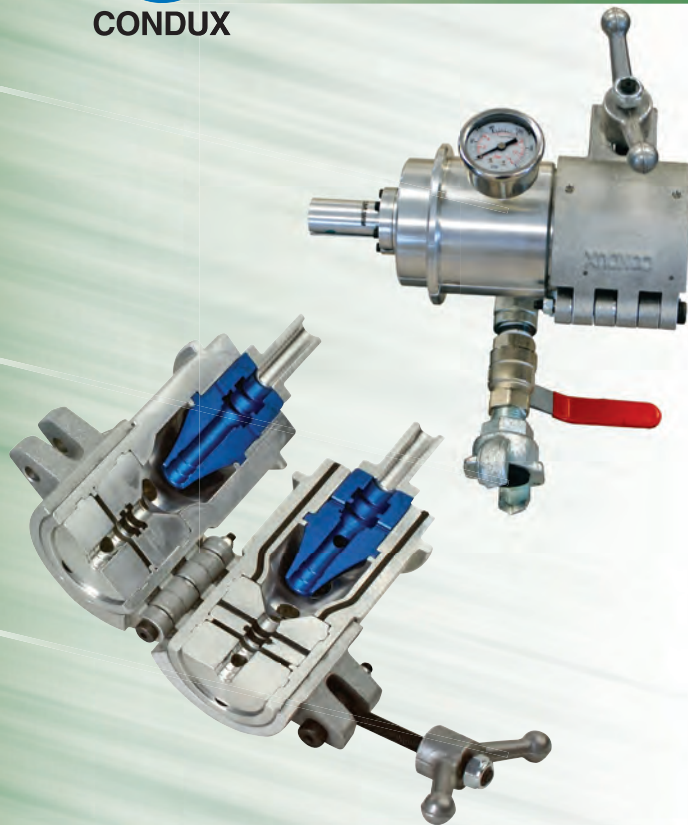
CABLE PACKS: MINI-BLOWER/PUSHER & HAND-HELD BLOWER

Pack	CABLE PACK		VENTURI		CABLE SEAL	
	Cable OD	P/N	Cable OD	P/N	Cable OD	P/N
1	0.23-0.34 [5.8-8.8]	08780802 Pack #1	0.23-0.34 [5.8-8.8]	08780803	0.23-0.28 [5.8-7.2]	08780406
					0.29-0.34 [7.3-8.8]	08780407
2	0.35-0.48 [8.9-12.2]	08780804 Pack #2	0.35-0.48 [8.9-12.2]	08780805	0.35-0.42 [8.9-10.7]	08761424
					0.43-0.48 [10.8-12.2]	08761425
3	0.49-0.60 [12.3-15.2]	08780806 Pack #3	0.49-0.60 [12.3-15.2]	08780807	0.49-0.55 [12.3-14.0]	08761426
					0.56-0.60 [14.1-15.2]	08761427
4	[10.4-5.5 mm]	08781117 Pack #4	Nylatron Venturi for Flat Fiber Optic Cables			
5	[15.2-6.7 mm]	08781118 Pack #5	Nylatron Venturi for Flat Fiber Optic Cables			

FYI

Duct Packs and Micro Duct Packs listed here can be used with the Gulfstream 400 and the Mini-Blower/Pusher. The Cable Packs listed can be used with the Mini-Blower/Pusher and the Hand-held Blower.

FIBER CABLE
INSTALLATION



Hand-held Fiber Blower

The Condux hand-held fiber blower is ideal for shorter run fiber optic cable or micro fiber optic cable installations. The unit's hinged design makes it easy to install and remove duct and fiber. The Condux hand held fiber blower installs fiber from 0.20 inches (5.8 mm) to 1.13 inches (28.7 mm) into duct from 0.39 inches (10 mm) to 2 inches (50.8 mm). The unit is also ideal for installing flat fiber.

Must be less than 60% fill ratio in order to work!

Part Number	Description
08081315	Hand-held fiber blower

Common Parts Package

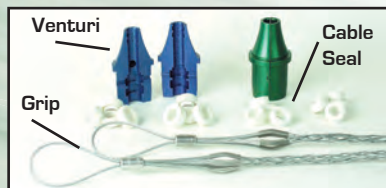
Common Parts Package (included with all Hand-held Blowers) includes:

Part No.	Description
02290168	Hex key set metric and standard
08780126	Seal replacement kit
08780223	Venturi Plug
08780424	Capscrew Set (M04-0.7 x 16)

Features & Benefits

- Portable & Lightweight
- Easy to Use
- Built in Air Gauge
- Aluminum Construction
- Hinged Design
- Low Cost Alternative
- Duct Range 10 mm - 2" OD
- Cable Seal Range 5.8 mm - 15.2 mm OD

Cable Packs: Mini-Blower/Pusher & Hand-held Blower



FYI
These Cable Packs can be used with the Mini-Blower/Pusher and the Hand-held Blower.

Cable Pack			Venturi		Cable Seal	
Pack	Cable OD	P/N	Cable OD	P/N	Cable OD	P/N
1	0.23-0.34 (5.8-8.8)	08780802 Pack #1	0.23-0.34 (5.8-8.8)	08780803	0.23-0.28 (5.8-7.2)	08780406
					0.29-0.34 (7.3-8.8)	08780407
2	0.35-0.48 (8.9-12.2)	08780804 Pack #2	0.35-0.48 (8.9-12.2)	08780805	0.35-0.42 (8.9-10.7)	08761424
					0.43-0.48 (10.8-12.2)	08761425
3	0.49-0.60 (12.3-15.2)	08780806 Pack #3	0.49-0.60 (12.3-15.2)	08780807	0.49-0.55 (12.3-14.0)	08761426
					0.56-0.60 (14.1-15.2)	08761427
4	(10.4-5.5 mm)	08781117 Pack #4	Nylatron Venturi for Flat Fiber Optic Cables			
5	(15.2-6.7 mm)	08781118 Pack #5	Nylatron Venturi for Flat Fiber Optic Cables			

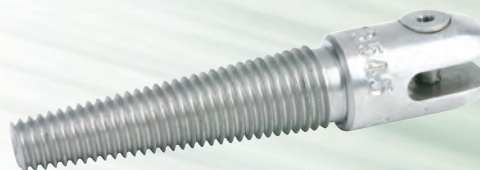
HAND-HELD FIBER BLOWER MICRO FIBER BLOWER ACCESSORIES



Innerduct Eyes for Micro Duct

Tapered buttress threads into the micro duct for maximum pulling strength.

Part Number	Description
08913547	Innerduct Eyes for Micro Duct (5-9 mm ID)
08913545	Innerduct Eyes for Micro Duct (10-12 mm ID)
08913538	Innerduct Eyes for Micro Duct (13-15 mm ID)



Multiple Pulling Harness for Micro Duct Installation

Six leg harness with 3-inch separation between legs for installing micro duct into existing innerduct.

Part Number	Description
08549350	Multiple Pulling Harness



Micro Fiber Carrier Kit

Designed to attach to the central strength member (CSM) of the cable. The seals are sized to accommodate the proper ID duct size for maximization of the blowing distances and create an airtight seal in the duct.

Part Number	Description
08764090	Micro Fiber Carrier Kit



Polywater® Prelube 5000™

Polywater® Prelube 5000™ is more concentrated than the Prelube 2000™. It is intended for blowing microcable into small diameter microtubes. The improved chemistry allows this product to spread further and reduce friction levels. The lower viscosity allows practical application into the microtubes.

Part Number	Description	Case Lots
08230675	Polywater® Prelube 5000™	6/case



PSI Shuttles

These unique, flexible shuttles are available in triple parachute configuration, making rope, pull tape and fiber optic cable installation in occupied duct a breeze. These shuttles can be used on their own or in series allowing for up to six parachutes to capture the air within the conduit, which can help increase installation distances. The parachutes collapse without constant air pressure allowing for easy pullback.

Part Number	Duct Size	
	(in)	(mm)
08761868	1.00-1.25	25-32
08761869	1.50-2.00	38-50



FIBER CABLE
INSTALLATION



GULFSTREAM™ 300 MICRO FIBER BLOWER

FYI

The Gulfstream 300 is ideal for middle mile fiber installations. For enterprise and last mile projects, see the Gulfstream 200.

Gulfstream™ 300 Micro Fiber Blower

The Gulfstream 300 is an effective and economical approach to middle mile fiber installations. Able to install fiber optic cable ranging in size from 3 mm to 10 mm into duct from 7 mm to 18 mm, the Gulfstream 300 offers the portability, convenience and power for standard middle projects in a cost effective package. The unit features user-friendly controls that help optimize the fiber optic cable installation process including:

- Forward/Reverse
- Speed control
- Emergency stop button
- Speed & distance display
- Push force control
- Hard shell carrying case with custom foam cutout
- Optional belt drive for flat fiber configurations

Weighing just 10 lbs., the Gulfstream 300 is easily transported and can be mounted on a tripod for optimum productivity. The Gulfstream 300 also offers a spring loaded cable entry point for easy cable removal.

Gulfstream™ 300 Micro Fiber Blower Complete Kit

Includes all duct packs and cable seals along with all other parts and accessories shown here.

Part Number	Description
08783500	Gulfstream 300™ Micro Fiber Blower Complete Kit (120v)
08783500EU	Gulfstream 300™ Micro Fiber Blower Complete Kit (240v)
08783500-01	Gulfstream 300™ Micro Fiber Blower Kit less Duct Pack
08783510	Gulfstream 300™ Micro Fiber Blower

User-Friendly Controls

The Gulfstream 300 features easy-to-use controls including Forward and Reverse. The Speed control setting allows for consistent installation, while the Emergency Stop button provides extra cable protection.

FYI

Early production model shown. Actual production models may vary.



FIBER CABLE
INSTALLATION

GULFSTREAM™ 300 MICRO FIBER BLOWER

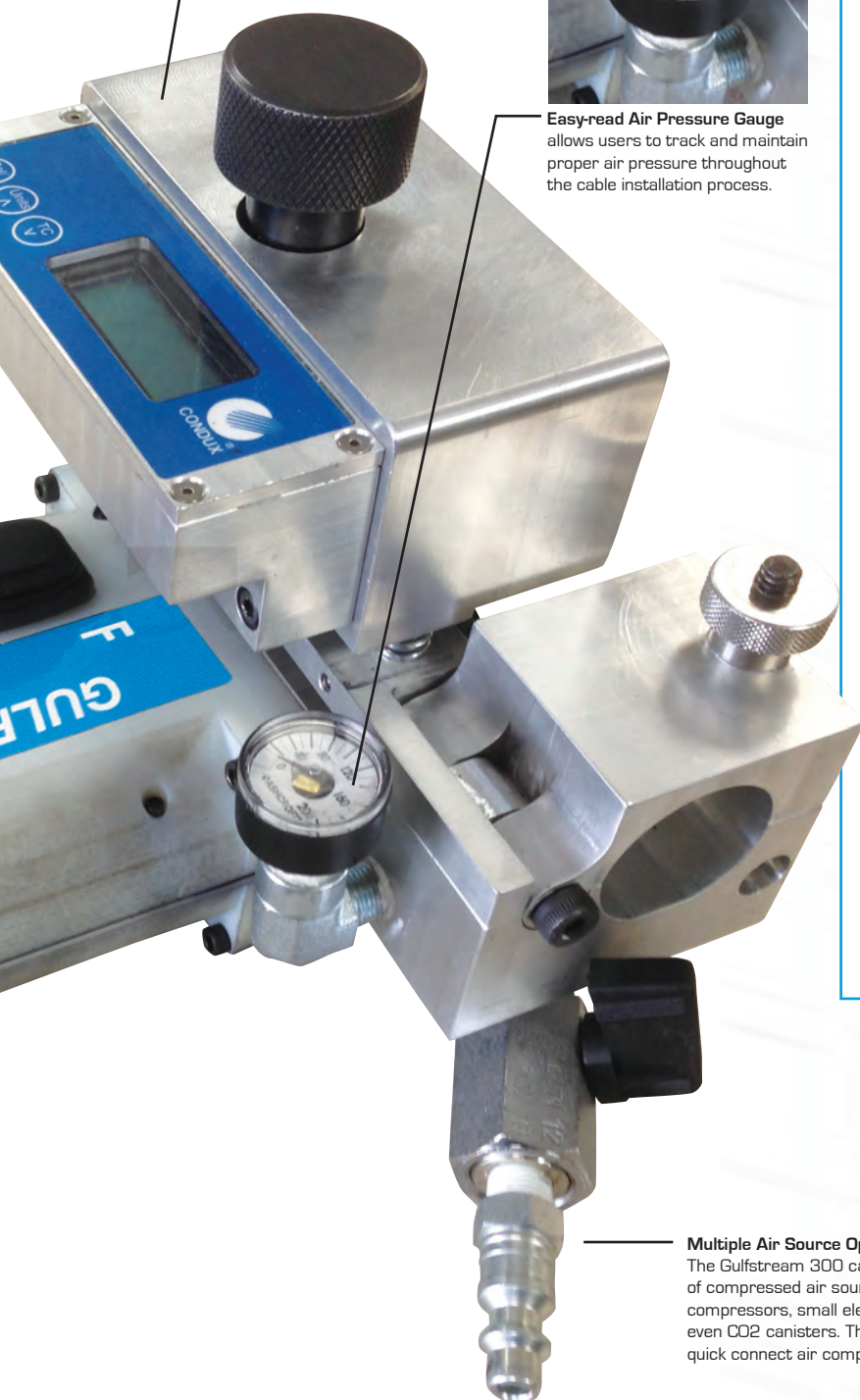


Self-Contained Design

The Gulfstream 300 is completely self-contained, featuring an internal electric motor that powers the unit's tractor drive. This eliminates the need for an external drive and provides for single hand operation.



Easy-read Air Pressure Gauge allows users to track and maintain proper air pressure throughout the cable installation process.



SPECIFICATIONS

Micro Duct Range

- 7 mm – 18 mm
- Built in clamping system with interchangeable clamps and seals.

Micro Fiber Range

- 3 mm – 10 mm

Types of Fiber

- All round fiber configurations
- Flat may be possible with specific belt configuration

Power System

- Electric Drive Motor
36V cordless or plug in Voltage converter
- Air connections: 1/4" QD, CO₂ tank connections.
Air input up to 200 psi (14 bar)

Drive

- Belt Drive
Easily replaceable
Interchangeable Belts for specific situations
- Maximum push force of 35 lbs (155 N)
- Speed 0 – 150 fpm (45 mpm)

Controls

- Forward/Reverse switch
- Speed control to regulate motor speed
- Emergency stop button for instant shutdown
- Screen that monitors speed, distance, and life counter
- Push force set control (crash test kick out)

Additional Features

- Hard Shell carrying case with custom foam cutout
- Can be mounted on a tripod
- Spring loaded cable entry point for easy cable removal

Add-On Options

- Additional Drive Belt configurations
- Carriers for 10 - 18 mm duct systems
- Screw on bullet caps for 5 mm – 10 mm cables
- CO₂ canister
- Tripod

Blower Size

- Dimensions: 6" H x 7" W x 11" L
(152.5 mm H x 177.8 mm W x 279.4 mm L)
- Weight: 10 lbs (4.54 kg)

Multiple Air Source Options

The Gulfstream 300 can be powered by a range of compressed air sources including large compressors, small electric compressors and even CO₂ canisters. The unit uses a standard quick connect air compressor coupling.

FIBER CABLE
INSTALLATION



GULFSTREAM™ 200 MICRO FIBER BLOWER

FYI

The Gulfstream 200 is designed for enterprise and last mile installations. For long haul and middle mile check out the Gulfstream 300 & 400.



Traction Control

The unit's belt drive includes traction control and a large contact area, which reduces pressure on the cable. This also helps protect the cable, while minimizing slippage during installation.

User-Friendly Controls

The Gulfstream 200 features easy-to-use controls including Forward and Reverse. Force setting controls provide extra cable protection, while Speed control settings allow for consistent installation.

Gulfstream™ 200 Micro Fiber Blower

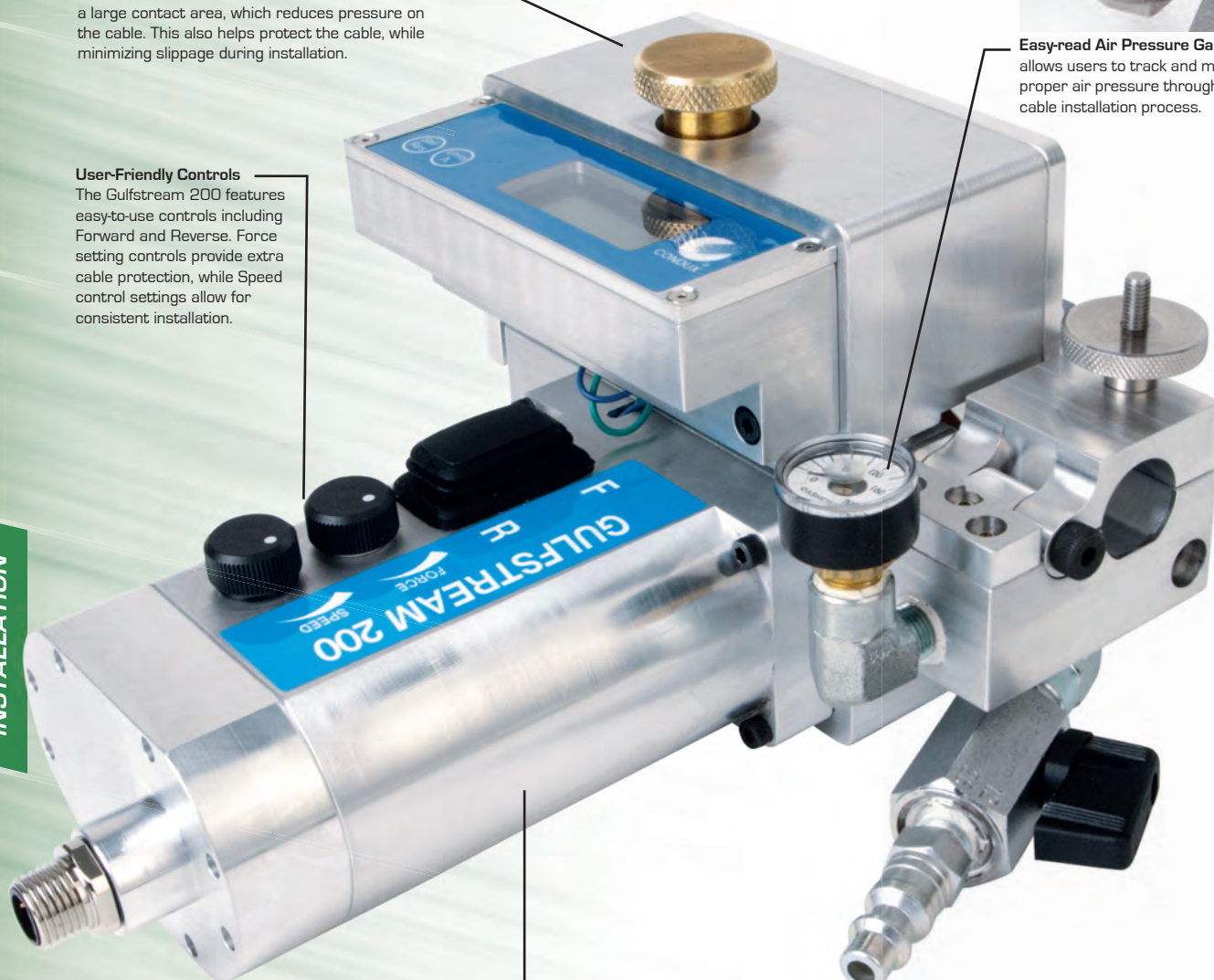
The Gulfstream 200 micro fiber blower is designed for the FTTx and Enterprise micro fiber cable installation projects. The self-contained Gulfstream 200 combines the push force of a small electric motor driven belt drive with compressed air to quickly and easily install micro fiber cables from 0.8 mm to 5.5 mm in diameter in micro duct ranging in size from 5 mm to 12.7 mm, at speeds up to 165 feet per minute!

The unit's machined aluminum construction provides a lightweight profile with long life and durability. The Gulfstream 200's compact size and convenient carrying case allow for easy transport between job sites.



Easy-read Air Pressure Gauge

allows users to track and maintain proper air pressure throughout the cable installation process.



Self-Contained Design

The Gulfstream 200 is completely self-contained, featuring an internal electric motor that powers the unit's tractor drive. This eliminates the need for an external drive and provides for single hand operation.

Multiple Air Source Options

The Gulfstream 200 can be powered by a range of compressed air sources including large compressors, small electric compressors and even CO2 canisters. The unit uses a standard quick connect air compressor coupling.

FIBER CABLE
INSTALLATION

GULFSTREAM™ 200 MICRO FIBER BLOWER



Gulfstream™ 200 Micro Fiber Blower Complete Kit

Includes all duct packs and cable seals along with all other parts and accessories shown here.

Part Number	Description
08783050	Gulfstream 200™ Micro Fiber Blower Complete Kit (120v)
08783050EU	Gulfstream 200™ Micro Fiber Blower Complete Kit (240v)
08783050-01	Gulfstream 200™ Micro Fiber Blower Kit less Duct Pack
08783000	Gulfstream 200™ Micro Fiber Blower

Complete Package

- Compact Carrying case holds Everything
- Blower
- One Size belt + flat belt
- 5 mm-12.7 mm OD duct packs
- Cable seals for 1 mm to 5.5 mm cables
- Two batteries + charger

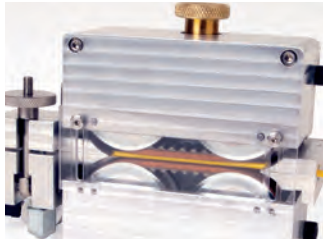


Common Parts Package

08783072 Common Parts Kit (Includes the Following):

Part Number	QTY	Description
08783054	1	Plastic Case
02290837	1	Hex Key Set
08783074	1	1.5mm Cable Seal Kit (5 pcs)
08783057	1	2.0mm Cable Seal Kit (5 pcs)
08783058	1	2.5mm Cable Seal Kit (5 pcs)
08783064	1	3.0mm Cable Seal Kit (5 pcs)
08783059	1	3.5mm Cable Seal Kit (5 pcs)
08783060	1	4.0mm Cable Seal Kit (5 pcs)

Part Number	QTY	Description
08783061	1	4.5mm Cable Seal Kit (5 pcs)
08783062	1	5.0mm Cable Seal Kit (5 pcs)
08783063	1	5.5mm Cable Seal Kit (5 pcs)
08783071	1	Blank Cable Seal Kit (5 pcs)
08783076	1	Seal Kit (Includes Adhesive)
08783077	1	O-Ring Kit (5 pcs)
See Belt Kits	1	Flat Belt



The Gulfstream 200 is designed for ideal installation speeds and optimal cable protection.



Remote Rechargeable Battery Pack powers the tractor drive, as well as the electronic controls. The lightweight, rechargeable and versatile battery pack can also plug into 120/240V power converter.

Accessories for Gulfstream™ 200 Micro Fiber Blower

Part Number	Description
08783085	US A/C Power Supply for the Gulfstream 200™
08783090	EU A/C Power Supply for the Gulfstream 200™
02290859	240v Charger
02290882	Tripod

SPECIFICATIONS

Micro Duct Range

- 5 mm – 12.7 mm
- Built in clamping system with interchangeable seals

Micro Fiber Range

- 0.8 mm – 5.5 mm

Power System

- Electric via belt clip rechargeable battery pack
- Standard QD air compressor connection
- 150-200 psi (14bar max pressure)
- Speed 0 – 165 fpm (50m/min max speed)

Drive

- Belt
- Forward and reverse

Push Force

- Adjustable between 0 and 10 lbs (45N max push force)

Control Panel

- Speed and torque control
- Screen that monitors speed and distance – life counter

Additional Features

- One hand operation
- Foam carrying case

Blower Size

- 8 x 6 x 4 inches (203.2 x 152.4 x 101.6 mm)
- Weight – 5 lbs (2.27 kg)

FIBER CABLE
INSTALLATION



CONDEX

CABLE BLOWING LUBRICANTS



Polywater® Prelube 2000™

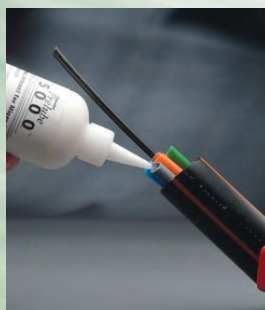
Specially formulated for use with Fiber Optic Cable Blowing Systems, Polywater® Prelube 2000™ has been field proven with Condux Gulfstream Fiber Optic Cable Blowers. This lubricant is a special lubricant used to prelubricate the conduit system before installing the cable. Prelube 2000 is compatible with all types of cable jackets and conduit types.

Part Number	Description	Std. Pkg. Qty.
08230600	1 Quart (0.9 liter) Standard Grade	12/case
08230601	1 Gallon (3.8 liter) Standard Grade	4/case
08230605	5 Gallon (19 liter) Standard Grade	

Polywater® W-Prelube 2000™

Polywater® W-Prelube 2000™ Winter Grade is a non-freezing form of the standard Polywater Prelube 2000™

Part Number	Description	Std. Pkg. Qty.
08230900	1 Quart (0.9 liter) Winter Grade	12/case
08230901	1 Gallon (3.8 liter) Winter Grade	4/case
08230905	5 Gallon (19 liter) Winter Grade	



Polywater® Prelube 5000™

Is more concentrated than the Prelube 2000™. It is intended for blowing microcable into small diameter microtubes. The improved chemistry allows this product to spread further and lower friction at extremely low coating levels. The lower viscosity allows practical application into the microtubes.

Part Number	Description	Std. Pkg. Qty.
08230675	8-fl ounce (227 g) squeeze bottle	6/case

General Purpose Cleaner

A fast drying, multi-purpose industrial and maintenance cleaner. Effectively dissolves and cleans grease, grime, sand built-up cable lubricant residue from Condux Gulfstream Fiber Optic Cable Blowers and other equipment.



Part Number	Description
08231009	9 oz. Aerosol Can with Adjustable Nozzle
08231032	1 quart (950 ml) Bottle with Flip Top
08231040	Trigger Sprayer to fit on pint & quart bottles

FIBER CABLE
INSTALLATION

Innerduct Pressure Test Kit

Use the Innerduct Pressure Test Kit to pressure test innerduct before setting up the Fiber Optic Cable Blower. The duct system must be able to withstand and hold 100 psi (6.9 bar) for the cable blower to work properly.

Part Number	Description
08761457	Pressure Test Kit for 1" (32 mm), 1¼" (40 mm) & 1½" (50 mm) SDR 11 & 13.5 Innerduct • Control Valve Assembly • Seal-Off Heads • Pulling Eyes • Pulling Grips • Tool Box

Other Components Available

Part Number	Description
08034318	Seal-Off Head for 2.00" (63 mm) SDR 11 & 13.5 Innerduct
08761846	Pulling Eye for 2.00" (63 mm) SDR 11 & 13.5 Innerduct
08643155	Pulling Grip for 2.00" (63 mm) SDR 11 & 13.5 Innerduct
08761458	Control Valve Assembly



Mandrel and Pressure Test Kit

Use the Mandrel and Pressure Test Kit to pressure test 1¼" (40 mm) innerduct. The duct system must not be kinked or crushed and must be able to withstand and hold 100 psi (6.9 bar) for the cable blower to work properly.

Part Number	Description
08761495	Mandrel and Pressure Test Kit for 1¼" (40 mm) Innerduct • Seal-Off Control Valve Assembly • Pressure Test Control Valve Assembly • 1¼" (40 mm) Innerduct Seal-Off Head • Test Mandrel for 1¼" (40 mm) Innerduct • Extra Rubber Discs for Test Mandrel • Innerduct Pulling Eye for 1¼" (40 mm) Innerduct • Cable Grip for over 1¼" (40 mm) Innerduct • Tool Box

Other Components Available

Part Number	Description
08761610	Test Mandrel for 1" (32 mm) Innerduct
08761237	Test Mandrel for 1¼" (40 mm) Innerduct
08761383	Test Mandrel for 1½" (50 mm) Innerduct
08020610	Test Mandrel for 2" (63 mm) Innerduct



Why an Airtight Duct?

Duct integrity is essential for a successful cable blowing application. Leaks in the duct can lower pressure and greatly reduce installation distances. The duct system must be able to withstand and maintain 150 psi (10.3 bar) for the cable blower to function properly. Even with minimal leakage, the compressor will not be able to maintain pressure behind the cable carrier. This ultimately can reduce the pulling force of the cable carrier and can increase tractor drive pressure on the cable, resulting in increased cable stress.

Duct integrity should always be tested before attempting cable installation with the cable blower. The duct can be tested with a pressure test kit available from Condux or with the cable blower itself. Either way, an airtight duct system is an absolute necessity for cable blowing.

The main contributors to duct system leaks are the innerduct couplings. Condux recommends using one of the innerduct coupling methods shown on pages 134 - 135.

CABLE CARRIER TENSION CHART

Innerduct Size	Nominal Innerduct I.D. in (mm)	Air Pressure—psi (bar)			
		90 (6.2)	110 (7.6)	130 (9.0)	150 (10.3)
1" SDR 13.5	1.121 (28.5)	89 (395)	109 (483)	128 (571)	148 (659)
1-1/4" SDR 13.5	1.414 (35.9)	141 (629)	173 (768)	204 (908)	236 (1,048)
1-1/2" SDR 13.5	1.618 (41.1)	185 (823)	226 (1,006)	267 (1,189)	308 (1,372)
2" SDR 13.5	2.023 (51.4)	289 (1,287)	354 (1,573)	418 (1,859)	482 (2,145)



Speed Ball Split Coupling

Hinged aluminum split coupling for temporarily joining all types on innerduct during a cable blowing process.

Note: Inserts are sold separately.

Part Number	Description
08676844	Hinged Coupling Body

Insert Specifications

Part Number	Nominal Duct Size		Duct Type	Mean Duct O.D.	
	(in)	(mm)		(in)	(mm)
08676859	1.00	25	1" SDR 11 & 13.5	1.315	33
08676860	1.25	32	1¼" SDR 11 & 13.5	1.660	42
08676861	1.50	38	1½" SDR 11 & 13.5	1.900	48
08676862	2.00	51	2" SDR 11 & 13.5	2.375	60
08676863		40	40 mm	1.575	40
08676830	1.50-2.00	38-60	1½" & 2" SDR 11 & 13.5	1.900-2.375	48-60

*Inserts include rubber seal.

Replacement Seals

Part Number	Description
08676853	1" Seal
08676854	1¼" Seal
08676855	1½" Seal
08676856	2" Seal
08676857	40 mm
08676830	Includes both 08676855 1½" Seal and 08676856 2" Seal

Comfit Couplers

Comfit is a unique Hi-Tech coupler for HDPE cable ducts. Leak tested at 230 PSI and resistant to corrosion and most chemicals.

Comfit is designed in accordance with the special demands of the leading cable duct companies and contractors.

Comfit is excellent for both blowing and pulling methods.

Comfit has a compact profile reducing difficulties traditionally encountered in manholes, narrow trenches and plowing machines.

Comfit's push-fit method ensures fast and simple assembly and disassembly. Push the duct ends into the coupler for a locked and air sealed assembly. No special tools are needed.



Part Number	Nominal OD (mm/inches)	Duct OD (mm/inches)	Max Tension	Max Pressure (PSI)	Units per box
08566109	26.6mm/1" ¹ / ₄ "	26.6mm/1.050"	580	230	144
08566110	33.4mm/1"	33.4mm/1.315"	580	230	70
08566112	42.2mm/1 ¹ / ₄ "	42.2mm/1.660"	1130	230	56
08566115	48.3mm/1 ¹ / ₂ "	48.3mm/1.900"	1470	230	36
08566120	60.3mm/2"	60.3mm/2.375"	2400	230	34
08566125	40mm	40mm	674	230	60
08566130	50mm	50mm	1124	230	33

Transfit Couplers

Manufactured with the semi push fit system, using transparent plastic to maximize convenience and efficiency. Allows easy and quick mounting without loss of parts.



Part Number	Nominal OD (mm/inches)	Max Tension (lbs)	Max Pressure (PSI)	Units per box
08566400	42.2mm/1 ¹ / ₄ "	674	230	32
08566405	60.3mm/2"	1349	230	15

FIBER CABLE
INSTALLATION

Chamfering Tool

The Chamfering Tool is designed to bevel the end of the duct to ensure a correct fit with the coupling.

Part Number	Pipe OD Range (in)	Units per box
08566100	.62" - 2.48"	60





GULFSTREAM™ 400 HIGH PRESSURE WATER PUMP



Gulfstream™ 400 High Pressure Water Pump

Improve fiber optic cable installation distances with the Condux Gulfstream 400 High Pressure Water Pump. By combining cable blowing operations with a high pressure water source, installation distance in certain situations can be increased. The Condux Gulfstream 400 High Pressure Water Pump is specifically designed to operate with the Condux Gulfstream 400 Fiber Optic Cable Blower and configures quickly to blowing operations. Pressure settings can be easily adjusted at the blower allowing users to set water pressure to meet the specific requirements of the job.

Part Number	Description
08792025	Pump, Water Jetting Kit

Engine Info

Engine Type:	Honda Electric Start
Engine Power:	11.7 HP (8.7kW) @ 3600 RPM
Engine Displ:	24 in ³ (389 cm ³)
Electrical:	12V, 10A charging system

Pump Info

Max Pressure:	725 psi (50 Bar)
Rcmd Pressure:	200 psi (14 Bar)
Pump Flow:	28.5 gpm (107 lpm) @ 200 psi

Package Info

Width:	34" (864 mm)
Length:	36" (915 mm)
Height:	27" (686 mm)
Weight:	265 lbs (120 kg)



The Condux Gulfstream™ 400 High Pressure Water Pump is specifically designed to operate with the Condux Gulfstream™ 400 Fiber Optic Cable Blower and configures quickly to blowing operations.

Gulfstream™ 400 High Pressure Water Pump Accessories

Part Number	Description
08792000	Pump, Water Jetting Assembly
02290851	Hose, Air w/ claw cplgs 33' (10.06 m) long
08792021	Hose, Water Jetting Supply 33' (10.06 m) long
08792022	Hose, Water Jetting Return 33' (10.06 m) long

Portable Hydraulic Power Packs

These portable power sources are matched perfectly to the power requirements of the Condux Fiber Optic Cable Puller and the Fiber Optic Cable Blower. Power source is a 9 HP [6.7 kW] Honda (gas), or a 16 HP [11.9 kW] Briggs & Stratton V-Twin Vanguard (gas) engine. Features electric start, large capacity hydraulic cooler, quick disconnects, low oil shut-off and 16" [406 mm] diameter pneumatic tires.

Part Number	Description
08675700	9 HP Hydraulic Power Pack, gas (5.9 GPM @ 1800 psi) (Recommended for Fiber Blower)
08675200	16 HP Hydraulic Power Pack, gas (8.2 GPM @ 2000 psi) (Recommended for Fiber Puller)



16 HP Hydraulic Power Pack
(Recommended for Fiber Puller)

Specifications								
Power Pack Size	9 HP Hydraulic Power Pack				16 HP Hydraulic Power Pack			
Use Product	Fiber Optic Cable Blower				Fiber Optic Cable Puller			
Part Number	08675700				08675200			
Hyd. System	Open Center				Open Center			
Frame Type	Two wheel mobile unit				Two wheel mobile unit			
Length	26.5 in (673 mm)				35.0 in (889 mm)			
Width	20.0 in (508 mm)				29.0 in (736 mm)			
Height	27.5 in (698 mm)				32.0 in (812 mm)			
Weight (Dry)	143 lbs (64.9 kg)				233 lbs (105.6 kg)			
Filtration	10 Micron Return Line Canister Type				10 Micron Return Line Canister Type			
Oil Cooler	Air to Oil				Air to Oil			
Engine	Gas				Gas			
	Honda, 9 HP (6.7 kW) @ 3,600 RPM				Briggs & Stratton V-Twin Vanguard, 16 HP (11.9 kW) @ 3,600 RPM			
Fuel	1.6 gallons/6.1 liters				5.0 gallons/18.9 liters			
Hydraulic Oil (Useable)	5.0 gallons/18.9 liters				5.0 gallons/18.9 liters			
Hydraulic Rated Flow	GPM	@ PSI	LPM	@ BAR	GPM	@ PSI	LPM	@ BAR
	6.8	0	25.8	0	9.1	0	34.4	0
	5.9	1,800	22.4	125	8.2	2,000	31.0	138
Hydraulic Relief Valve Pressure	2,150.0 PSI (148.3 BAR)				2,150.0 PSI (148.3 BAR)			



9 HP Hydraulic Power Pack
(Recommended for Fiber Blower)

Hydraulic Power Pack Accessories

Part Number	Description
08675858	Hydraulic Hose Kit, 20' [6 m] Hose with Couplings
08780384	Hydraulic Hose with flow control manifold
02260000	Hydraulic Coupling, Female Flat Face Faster 2FFN38-12NPT-F / Bruning FF371-8FP
02260100	Hydraulic Coupling, Male Flat Face Faster 2FFN38-12NPT-M / Bruning FF372-8FP
02260200	Dust Cap, Male Coupling
02260201	Dust Cap, Female Coupling
02286416	Power cord assembly extension, 2-pin straight, 20' [6 m]
08761248	Power cord with cigarette adapter



Dust Caps

Couplings

Fiber Optic Cable Puller

The Fiber Optic Cable Puller from Condux sets new standards for safe, accurate pulling of fiber optic cables. Only the Condux puller can offer load cell torque input for the most accurate tension measuring available. Unlike most hydraulic measuring systems, this system is not affected by changes in oil temperature, component age and power source. That means the Condux Fiber Optic Cable Puller does not need to be recalibrated under different weather conditions.

NOTE: The Hydraulic Power source is sold separately (see pg. 137).

12 inch (305 mm) capstan available
30 inch (762 mm) capstan available
42 inch (1067 mm) capstan available
50 inch (1270 mm) capstan available

Lightweight means easy set-up

U.S. Patent
#5,559,294

Post fits standard 2 1/2 inch (64 mm)
mounting socket

Hydraulic motor

Standard Features

These pullers consist of a hydraulic motor, variable speed foot control, manual flow control valve for adjusting maximum speed and a manually adjustable pressure relief valve for adjusting the ultimate pull tension.

Optional Features

The Condux Fiber Optic Cable Puller features an optional electronic tension control system with adjustable digital load limits and a load cell tension measuring device with a paperless recorder and trend display, compact flash drive with 64MB flash card and USB interface (see page 140).

Components

Condux Fiber Optic Pullers are multi-component products. Order a puller to fit your requirements with combinations of these components (for ordering information, see page 141). Components include:

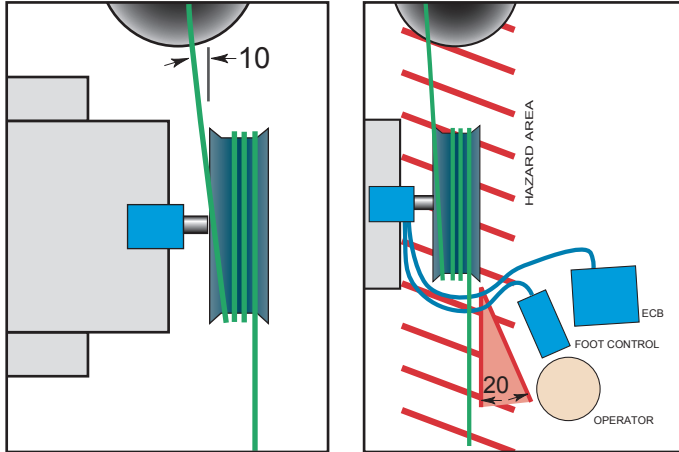
- Hydraulic puller mounted on a standard 2 1/2" (64 mm) square tube
- 30" (762 mm) diameter capstan
- Foot control / hydraulic control assembly
- Electronic control box with paperless recorder
- Hoses and cords to connect the puller to the foot control assembly and electronic control box

WARNING: The Fiber Optic Cable Puller is not to be used as a hoist or for lifting, supporting or transporting people or loads.



Easy to set up, Safe to use

Condux Fiber Optic Cable Pullers set up easily at a variety of jobsite layouts. Components are modular, adding to versatility and operator safety.

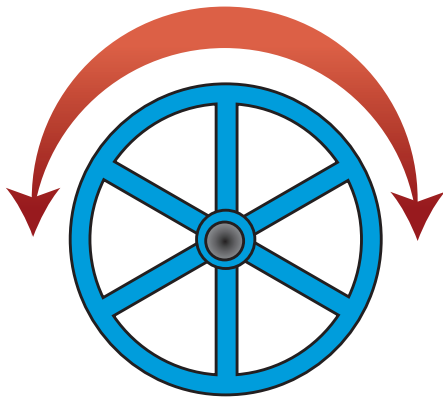


Variable Speed Foot Control

Like the accelerator pedal in your car or truck, the Variable Speed Foot Control allows the operator to easily manage the speed of the pull.

Bi-directional Pulling

Bi-directional pulling capabilities mean less set-up time and more productivity.



SPECIFICATIONS

	12 in (305 mm) Diameter Capstan		30 in (762 mm) Diameter Capstan		42 in (1067 mm) Diameter Capstan		50 in (1270 mm) Diameter Capstan	
PULLING FORCE	lbs	kN	lbs	kN	lbs	kN	lbs	kN
Maximum	2,000	8.9	1,000	4.4	600	2.7	600	2.7
Continuous	2,000	8.9	1,000	4.4	600	2.7	600	2.7
PULLING SPEED	ft/min	m/min.	ft/min	m/min.	ft/min	m/min.	ft/min	m/min.
No Load	93.9	28.6	240.0	73.2	328.4	100.0	391.4	119.3
At Maximum Force	93.9	28.6	240.0	73.2	328.4	100.0	391.4	119.3
Power Requirements								
PRESSURE	2,000 to 2,500 psi (137 to 172 bar)							
FLOW	6 to 10 gpm (22.7 to 37.9 lpm)							
PEAK POWER	8 HP (5.97 kw)							

Optional Electronic Control System

Features large LED Display and Paperless Recorder with trend display. Paperless Recorder includes: Trend Display, CompactFlash™ card slot with 256MB Flash Card, and USB interface. A programmable overload set point has both an audible and visual indication of an overload condition. The Electronic Control Box also has the capability to disengage the cable puller if an overload occurs.

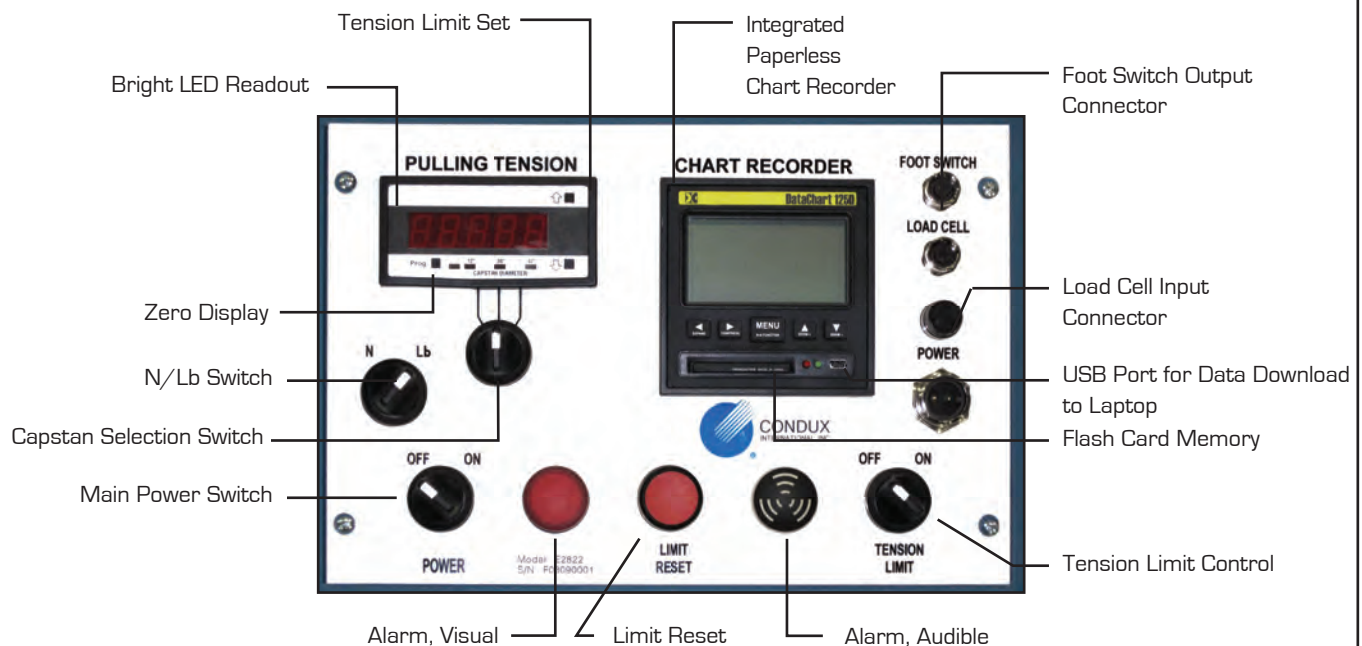


Electronic Control Box



U.S. Patent # 5,559,294

Electronic Controls: Easy, Informational, Durable



FIBER OPTIC CABLE PULLER PACKAGES



1

Base Part No. **Description**
08690001 **Package contains:** Fiber Optic Cable Puller, Foot Control and Hoses. Does not include a remote mounting stand or a base mount. Please order separately [see pages 142 & 144].

Capstan Options

Part No.	Description
08675230	30" (762 mm) Capstan; 4" (102 mm) wide
08675430	30" (762 mm) Capstan; 8" (203 mm) wide
08675436	42" (1067 mm) Capstan
08675220	50" (1270 mm) Capstan

3

Base Part No. **Description**
08690055 **Package contains:** All items from package 1 plus monitoring components including an electronic control box with a paperless chart recorder for permanent documentation of your pull. Does not include a remote mounting stand or a base mount. Please order separately [see pages 142 & 144].

Capstan Options

Part No.	Description
08675230	30" (762 mm) Capstan; 4" (102 mm) wide
08675430	30" (762 mm) Capstan; 8" (203 mm) wide
08675436	42" (1067 mm) Capstan
08675220	50" (1270 mm) Capstan

Fiber Optic Cable Puller Package Upgrade Kits

Part Number	Description
08675920	Pkg 1 to Pkg 3 Upgrade Kit (Electronic Control Box with Chart Recorder and Load Cell)



* Shown with Optional 30" Capstan.



* Shown with Optional 30" Capstan.

ECB Replacement Parts

Part Number	Description
02286406	2 Pin Male Receptacle
02286416	Extension Cord 20"
02289665	On/Off Switch
02289666	LIGHT, RED PILOT INDICATOR
02289668	BUTTON, ALARM RESET-ECB
02290108	Cord, Footswitch
02290113	3 Pin Female Receptacle
02290114	5 Pin Female Receptacle
02290115	Alarm, Audible - DC
02290116	3 Way Selector Switch
02290117	Fuse, 250V 2A
08675926	Patch Cord, Footswitch Upgrade
08677372	Chart Recorder
08677375	Cord, Load Cell
08761248	Plug, Lighter Cord



FIBER CABLE
INSTALLATION



CONDUX

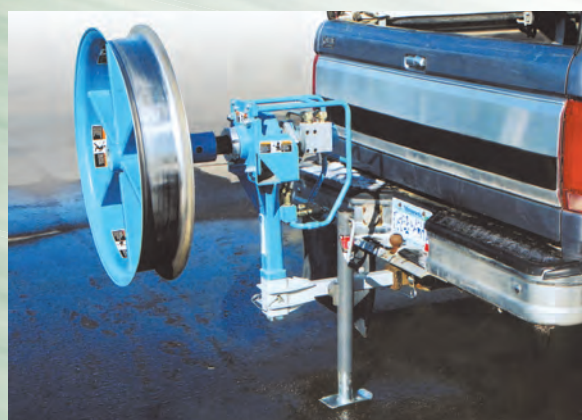
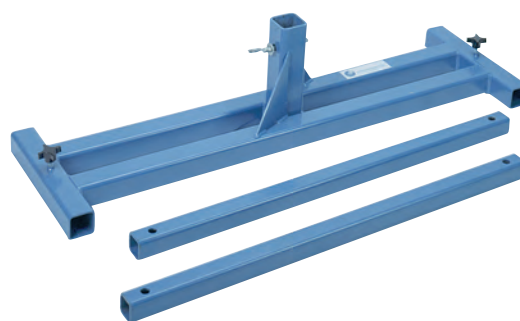
FIBER OPTIC CABLE PULLER ACCESSORIES



Remote Mounting Stand

For fiber optic cable pulling applications that demand flexibility in set-up, the Remote Mounting Stand allows positioning of the cable puller well away from the power source. Easy to set up, the unit is both sturdy and compact. Features 2½" (64 mm) square mount to accommodate any Fiber Optic Cable Puller.

Part Number	Description
08675115	Remote Mounting Stand



Fiber Optic Cable Puller Hitch Mount

Hitch Mounts are a fast, easy way to mount the Fiber Optic Cable Puller. The Hitch Mount attaches directly into a typical 2" (51 mm) square Reese-type receiver and the cable puller mounts in a 2½" (64 mm) square fixture. An adjustable jack is included for added stability and height adjustment. Pulling loads must not exceed 800 lbs. (3,559 N).

Part Number	Description
08675908	Fiber Optic Cable Puller Hitch Mount
08675930	Adjustable Fiber Optic Cable Puller Hitch Mount 22.5°



Pole Mounting Frame

When overhead fiber optic cable installation applications require the smooth hydraulic power and accurate tension measuring system of the Condux Fiber Optic Cable Puller, the Pole Mounting Frame is available. Install the cable puller on the frame with no modifications necessary to the puller. By design, the Pole Mounting Frame offers a secure hold on the cable puller both vertically and horizontally for a worry-free pull. A special plug drives into wood poles for added stability. Includes all mounting hardware.

Part Number	Description
08676000	Pole Mounting Frame and hardware



FIBER CABLE
INSTALLATION

Capstans

To conform to the many specifications of fiber optic cable available, and to offer more cable pulling capabilities, Condux offers several sizes of capstans that fit the Condux Fiber Optic Cable Puller. These bayonet style capstans are offered in 12" (305 mm), 30" (762 mm), 42" (1,067) and 50" (1,270 mm) diameters for a standard 2⁷/₁₆" diameter bayonet style shaft.

Part Number	Diameter		Flat Width		Max. Cable O.D.	
	(in)	(mm)	(in)	(mm)	(in)	(mm)
08675213*	12	305	9	229	-	-
08675230	30	762	4	102	.75	19
08675430	30	762	8	203	1.00	25
08675436	42	1,067	8	203	1.05	27
08675220	50	1,270	8	203	1.25	32

* Not to be used for fiber optic cable or steel rope. Intended for pulling innerduct, power, telephone or coaxial cables.



50" (1,270 mm) diameter capstan on Remote Mounting Stand.

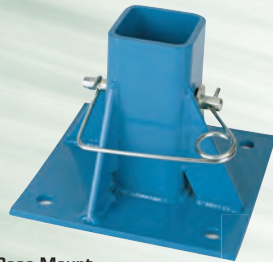


Fiber Optic Cable Puller on Remote Mounting Stand with 42" (1,067 mm) diameter capstan.

Capstan Specifications	 12 in (305 mm) Diameter Capstan		 30 in (762 mm) Diameter Capstan		 30 in (762 mm) Diameter Capstan		 42 in (1,067 mm) Diameter Capstan		 50 in (1,270 mm) Diameter Capstan	
	in	mm	in	mm	in	mm	in	mm	in	mm
Part Number	08675213		08675230		08675430		08675436		08675220	
FLAT SURFACE	in	mm	in	mm	in	mm	in	mm	in	mm
Width	9	229	4	102	8	203	8	203	8	203
PULLING FORCE	lbs	kN	lbs	kN	lbs	kN	lbs	kN	lbs	kN
Maximum/Continuous	2,000	8.9	1,000	4.4	600	2.7	600	2.7	600	2.7
PULLING SPEED	ft/min	m/min.	ft/min	m/min.	ft/min	m/min.	ft/min	m/min.	ft/min	m/min.
At Maximum Force	94	28.6	240.0	73.2	240.0	73.2	328.4	100.0	391.4	119.3
CABLE DIAMETER	Not for Fiber Optic Cable		in	mm	in	mm	in	mm	in	mm
Maximum			.75	19.0	.75	19.0	1.05	26.7	1.25	32.5



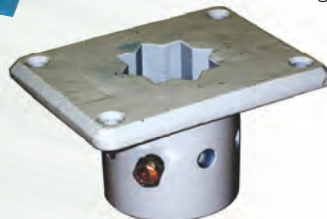
FIBER OPTIC CABLE PULLER ACCESSORIES



Base Mount



Side Mount



Floor Socket Mount

Mounting Sockets

The Condux Fiber Optic Cable Puller has a square mounting post 2½" (64 mm) x 2½" (64 mm). A female mounting socket is required for stability during cable pulling operations.

Part Number	Description
02260801	Floor Socket Mount, cast
08675130	Base Mount
08675138	Side Mount



Calibration Dynamometer

The Condux Fiber Optic Cable Puller is calibrated at the factory prior to shipment. The Calibration Dynamometer is used to check that the puller's calibration has not changed, especially if the relief valve has been adjusted in the field. On cable puller models equipped with an Electronic Control Box, the Calibration Dynamometer simply verifies the readings. Other load capacities available.

Number	Description
02261000	1,000 lb (454 kg) Calibration Dynamometer
02261040	4,000 lb (1814 kg) Calibration Dynamometer

Chart Recorder & Cord Replacement Parts for Old Style ECB



Part Number	Description
02273600	Chart Recorder Paper, 0-2,000 lbs.
02246001	Ink Cartridge, single (Jumo recorder)
08761248	Plug, Lighter Cord
02286416	Extension Cord 20'

Puller Replacement Parts

Part Number	Description
08675875	Foot Control Switch
02272900	Repair Kit

Slip Clutch Capstan

Slip Clutch Capstans from Condux are designed to mount directly on a bayonet style winch drive shaft. A factory preset torque limiter prevents pulling tensions from exceeding 600 pounds (2,670 N) $\pm 10\%$ (60 lbs or 267 N). If the preset load is reached, the capstan will "slip" and discontinue rotating.

High strength aluminum and steel construction ensures product durability and cable protection.

The capstan is factory calibrated to 600 lbs (2,670 N) but can be calibrated to different loads from 200 to 1,000 lbs. (890 to 4,448 N).

The capstan is designed for use with a $2\frac{7}{16}$ " (62 mm) diameter, AT&T specification bayonet style power take-off (PTO) shaft.

Standard Ratings:

Part Number	Diameter		Flat Width		Max. Cable O.D.		Rating	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lbs)	(N)
08760030-06	30	762	4	102	.75	19	600	2670
08760040-06	42	1,067	8	203	1.05	26.7	600	2670
08760050-06	50	1,270	8	203	1.25	32.5	600	2670

Special Ratings: 30-inch Capstan

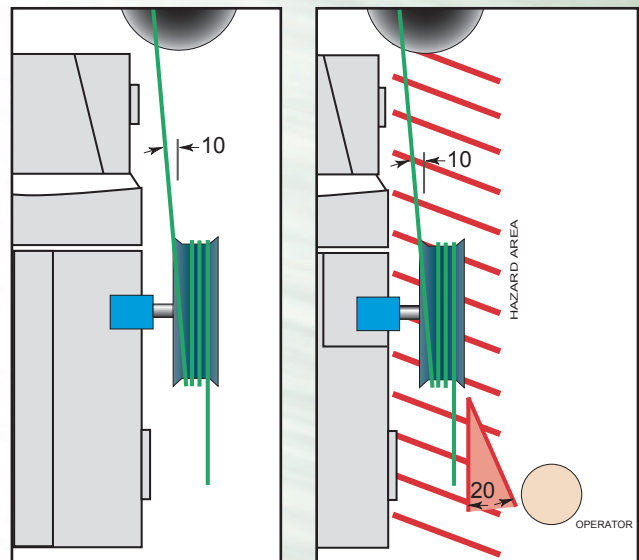
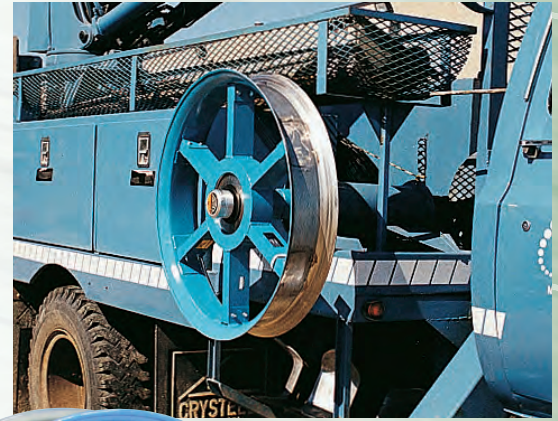
Part Number	Diameter		Flat Width		Max. Cable O.D.		Rating	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lbs)	(N)
08760030-02	30	762	4	102	0.75	19	200	890
08760030-03	30	762	4	102	0.75	19	300	1335
08760030-04	30	762	4	102	0.75	19	400	1780
08760030-05	30	762	4	102	0.75	19	500	2225
08760030-07	30	762	4	102	0.75	19	700	3115
08760030-08	30	762	4	102	0.75	19	800	3560
08760030-09	30	762	4	102	0.75	19	900	4005
08760030-10	30	762	4	102	0.75	19	1000	4450

Special Ratings: 42-inch Capstan

Part Number	Diameter		Flat Width		Max. Cable O.D.		Rating	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lbs)	(N)
08760040-02	42	1067	8	203	1.05	26.7	200	890
08760040-03	42	1067	8	203	1.05	26.7	300	1335
08760040-04	42	1067	8	203	1.05	26.7	400	1780
08760040-05	42	1067	8	203	1.05	26.7	500	2225

Special Ratings: 50-inch Capstan

Part Number	Diameter		Flat Width		Max. Cable O.D.		Rating	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lbs)	(N)
08760050-02	50	1270	8	203	1.25	32.5	200	890
08760050-03	50	1270	8	203	1.25	32.5	300	1335
08760050-04	50	1270	8	203	1.25	32.5	400	1780
08760050-05	50	1270	8	203	1.25	32.5	500	2225



**FIBER CABLE
INSTALLATION**



FIBER OPTIC CABLE PULLER TRAILER



Open Style Fiber Optic Cable Puller Trailer



Access job sites with ease using the Condux Open Style Fiber Optic Cable Puller Trailer. The open style has advantages in portability, accessibility and cost.

On the job, gain easy access to all components with the open face design. Small items can be stowed in a lockable storage compartment. Leveling and stabilizing hardware is included. The Open Face Fiber Optic Cable Puller Trailer comes standard with a detachable cable puller remote mounting stand as well as built-in cable puller mounts on the left and right rear corners.

Options include a choice of three Condux Fiber Optic Cable Puller packages, choice of three capstans and a 16 HP (11.9 kW) Power Pack. The trailer bed is designed to accommodate standard and optional equipment with built-in mounting systems for secure travel.



**Build your own Open Style
Fiber Optic Cable Puller
Trailer Kit**

Use a **Base Part Number** shown below and also indicate accessory options by part number when placing your order. All items priced individually.

Base Part No.	Description
---------------	-------------

08675675	Open Style Fiber Optic Cable Pulling Trailer
-----------------	---

(Includes: Trailer Flat Assembly, Remote Mounting Stand, 16 HP Power Pack, Wheel Chocks and Tool Box)

*Some assembly required

NOTE: Must purchase a Fiber Optic Cable Puller Option along with a Capstan Option from below.

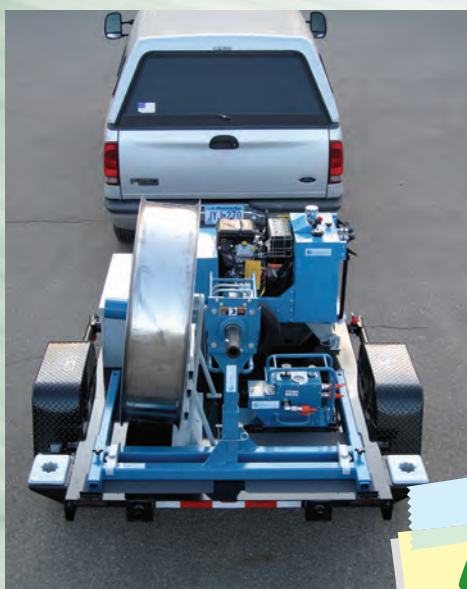
Fiber Optic Cable Puller Options

(Includes Foot Control and Hoses)

Part No.	Description
08690001	Fiber Optic Cable Puller without Electronics
08690055	Fiber Optic Cable Puller with Electronic Control Box and Paperless Chart Recorder

Capstan Options

Part No.	Description
08675230	30" (762 mm) Capstan; 4" (102 mm) wide
08675430	30" (762 mm) Capstan; 8" (203 mm) wide
08675436	42" (1,067 mm) Capstan
08675220	50" (1,270 mm) Capstan



FYI

Not fully assembled trailer. Fiber puller and capstan ship separately.



FIBER CABLE
INSTALLATION

FIBER OPTIC CABLE PULLER TRAILER



Accessible storage; all components are easy to see and use

3 Capstan sizes available

Remote Mounting Stand (detachable)

2 1/2 inch (64 mm) square mounting socket for use with any Fiber Optic Cable Puller

Trailer weighs 950 lbs. (431 kg) (without options)

Briggs & Stratton 16 hp (11.9 kW) gasoline driven hydraulic power unit available

Power Supply	
Engine	Briggs & Stratton V-Twin Vanguard OHV gas
Horsepower	16 h.p. @ 3,600 RPM (11.9 kW @ 3,600 RPM)
Starting	Electric
Fuel	Unleaded Gas, 85 Octane min., 10% or less ethanol blend
Fuel Capacity	5.0 gallons (18.9 liters)
Speed Control	Variable

Hydraulics	
Capacity	8.2 gpm @ 2,000 psi (31.0 lpm @ 138 bar)
Reservoir	5.0 gallons (18.9 liters)
Filtration	10 micron return line canister type
Hydraulic Oil Requirements	Petro based, anti-wear, high viscosities over 140
Hydraulic Relief Valve Pressure	2,150 psi (148.3 bar)

Trailer Specifications	
Weight (without puller)	950 lbs (431 kg)
Axle	3,500 lbs (1,590 kg) Type II
Tire	P205/75R14 Steel Belted Radials
Rims	14" x 6" (356 mm x 152 mm)
Track	60" (1,254 mm)
Overall Width	80" (2,032 mm)
Overall Height (without puller)	51" (1,295 mm)
Hitch	3" (76 mm) Lunette Eye
Lighting	7 Pin Connector
Electronics	12 VDC

FIBER CABLE
INSTALLATION

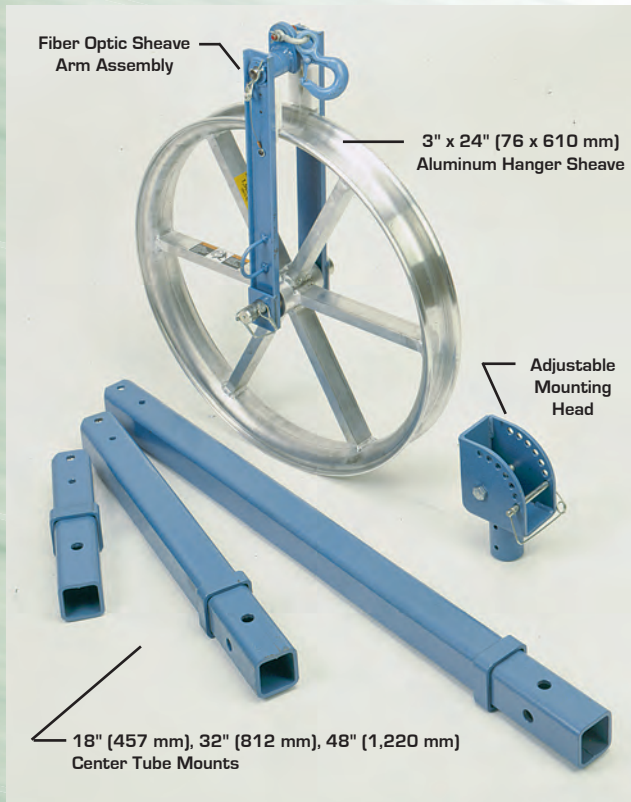


Fiber Optic Jamb Skid

The Condux Fiber Optic Jamb Skid is a device for supporting fiber optic sheaves or quadrant blocks inside a manhole to pull fiber optic cable into underground conduit.

Constructed of steel tubing, the Fiber Optic Jamb Skid is both strong, 1,000 lbs. (4,480 N) load rated, and lightweight, can be installed by one person.

Part Number	Description	Manhole Height Range	
		(in)	(mm)
08097100	46" (1,168 mm) Base Section with locking pins		
08097200	43" (1,092 mm) Extension	49-80	1,244-2,032



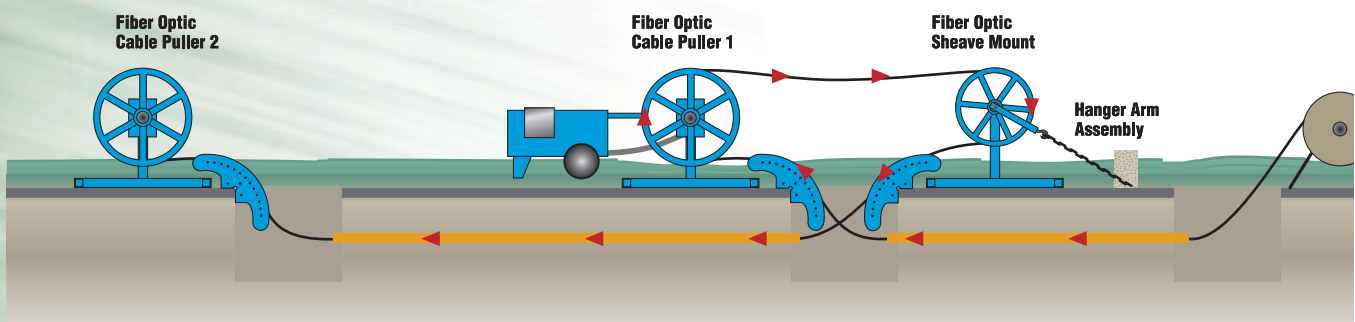
Fiber Optic Sheave Mount

Fiber Optic Sheave Mounts are an ideal solution to mid-point cable pulling situations. The adjustable sheave mount allows pinpoint adjustment from horizontal to vertical. Portable components set up quickly and adjust from job to job, offering maximum versatility with minimum equipment. Uses a standard 2½" (64 mm) square mounting post for use with FO Cable Puller Remote Mounting Stand (see page 142) or Mounting Sockets (page 144).

Fiber Optic Sheave Mount Components

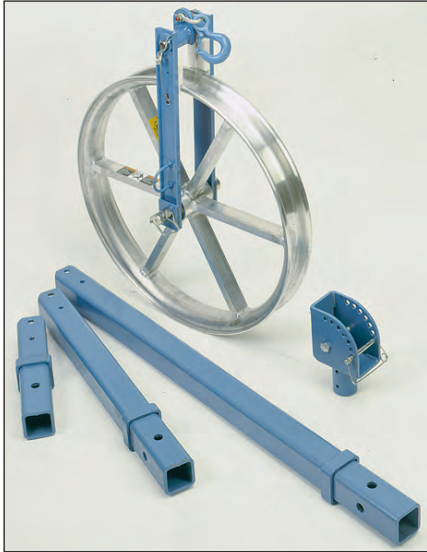
Part Number	Description
08637900	Adjustable Sheave Mounting Head (includes sheave mounting shaft & pins)
08637909	18" (457 mm) Center Tube Mount
08637910	32" (812 mm) Center Tube Mount
08637911	48" (1,220 mm) Center Tube Mount
08637912	Fiber Optic Sheave Arm Assembly
08637743	Fiber Optic Aluminum Hanger Sheave 3" x 24" (76 x 610 mm)
08675115	Fiber Optic Puller Remote Mounting Stand Assembly (See page 104 for details)

Replacement Sheaves available. See Specifications and Selection Charts on page 113.

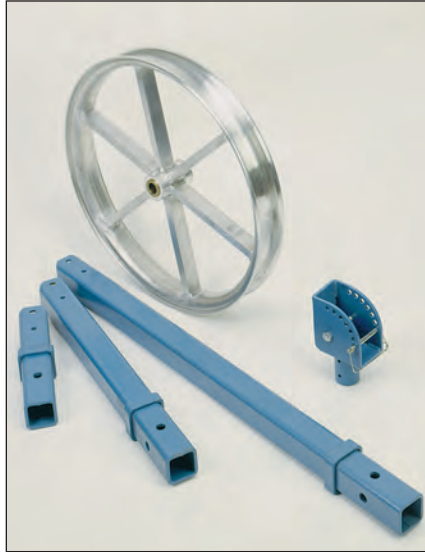


Fiber Optic Sheave Mount Packages

Part Number	Description
08637930	Adjustable Fiber Optic Sheave Mount, Pkg 1 Includes mounting head, all 3 mounting tubes, sheave and sheave arm assembly.
08637940	Adjustable Fiber Optic Sheave Mount, Pkg 2 Includes mounting head, all 3 mounting tubes, and sheave.



Fiber Optic Sheave Mount Package 1



Fiber Optic Sheave Mount Package 2



Fiber Optic Sheave Mounting Stand,
Sheave Horizontal



Fiber Optic Sheave Mounting Stand,
Sheave Vertical.



Fiber Optic Sheave Mounting Stand,
Sheave at 45° Angle.

FIBER CABLE
INSTALLATION



Fiber Optic Quadrant Block

Protects fiber optic cable during installation. Pulling radius of 26" (660mm); 13 aluminum rollers on bronze bearings allow cable to make a gradual 90° turn for easy pulling through manhole opening. Lightweight, corrosion-resistant aluminum side plates. Can be lowered into any manhole opening and chained in place for good alignment or used as a cable guide at street level. 2,600 lbs. (11,565 N) cable tension load capacity. 1½" (38 mm) maximum cable diameter (consult cable manufacturer for minimum bend radius). Support bar sold separately (see page 112). Replacement Sheaves available. See Specifications and Selection Charts on page 113.

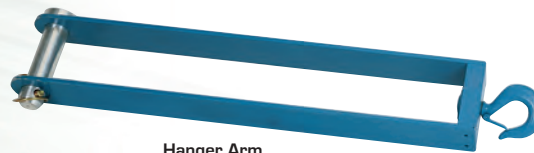
Part Number	Description
08539350	Quadrant Block



Hanger Arms

Allows the hanging of the Fiber Optic Quadrant Block in a manhole for more flexible positioning.

Part Number	Description
08539320	Hanger Arm



Hanger Arm



Fiber Optic Hanger Block

Five aluminum rollers on bronze bearings allow cable to make a gradual 90° turn for easy pulling through manhole opening. Has a pulling radius of 12" (305 mm). Two non-metallic "keeper" rollers to hold the cable in place during the pull. Lightweight corrosion resistant aluminum side plates. Can be suspended in the manhole or hung on an overhead pole for easy pulls. ¾" (19 mm) maximum cable diameter (consult cable manufacturer for minimum bend radius). 800 lbs. (3,558 N) cable tension load capacity. Replacement Sheaves available. See Specifications and Selection Charts on page 113.

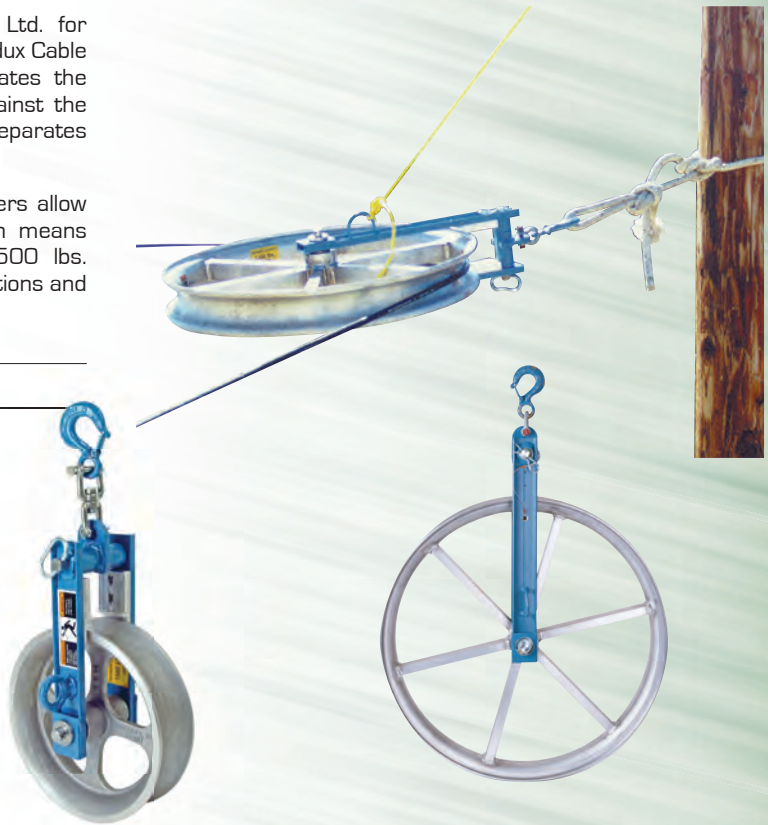
Part Number	Description
08539550	Hanger Block

Overhead Fiber Optic Cable Sheave

Specially designed in cooperation with Alcoa Fujikura Ltd. for guiding fiber optic or CATV cable safely and efficiently, Condux Cable Sheaves feature an innovative hanger arm that eliminates the possibility of cable coming off the sheave or binding against the support arm. With the removal of a pin, the hanger arm separates and allows cable to be slipped in easily, even at midpoints.

12-inch (305 mm) or 24-inch (610 mm) sheave diameters allow for a gentle cable arc. Aluminum sheave construction means durability with less weight. Maximum capacity is 1,500 lbs. (6,672 N). Replacement Sheaves available. See Specifications and Selection Charts on page 113.

Part Number	Description
08637840	12" (305 mm) Overhead Fiber Optic Cable Sheave
08637825	24" (610 mm) Overhead Fiber Optic Cable Sheave



Underground Fiber Optic Cable Sheave

The Underground Fiber Optic Sheave has all the features of the Overhead Sheave (above) but with an additional second arm for convenient tie-off. Replacement Sheaves available. See Specifications and Selection Charts on page 113.

Part Number	Description
08637800	Underground Fiber Optic Cable Sheave NOTE: Sheave Size 24" O.D.



FIBER CABLE
INSTALLATION



FIBER OPTIC CABLE PULLING LUBRICANT



Polywater® Lubricant F

Polywater® Lubricant F is a high performance, pourable liquid recommended for long and difficult fiber optic cable pulls. It is slow drying and leaves a lubricating film after its water base evaporates. Polywater F does not stress crack low density polyethylene and is compatible with all types of cable jackets.

Part Number	Description	Std. Pkg. Qty.
08230100	1 Quart (.9 liter) Squeeze Bottle	12/case
08230101	1 Gallon (3.8 liter) Jug	4/case
08230104	2½ Gallon (9.5 liter) Jug	2/case
08230105	5 Gallon (19 liter) Pourable Pail	1
08230155	55 Gallon (208 liter) Drum	1

Polywater® Lubricant WF

Lubricant WF is a non-freezing form of the standard Lubricant F.

Part Number	Description	Std. Pkg. Qty.
08230201	1 Gallon (3.8 liter) Jug	4/case
08230204	2½ Gallon (9.5 liter) Jug	2/case
08230205	5 Gallon (19 liter) Pourable Pail	1

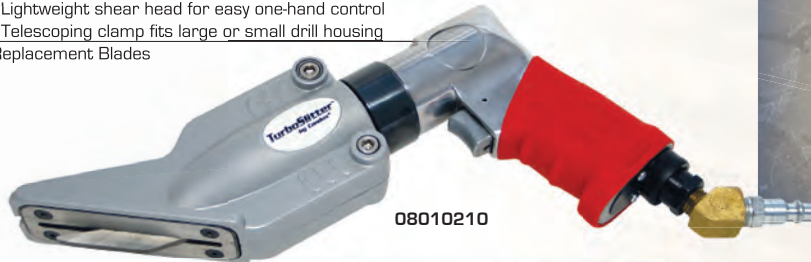
For Cable Blowing Lubricants, see page 133.



TurboSlitter™

The TurboSlitter™ from Condux can easily split HDPE pipe with wall thicknesses ranging from 0.097 to 0.216 inches! Available in two styles, pneumatic and cordless drill attachment. The cordless drill attachment quickly adjusts to fit almost any rechargeable drill, 14-volt and larger. Save time and effort on the job with the TurboSlitter from Condux.

Part No.	Description
08010210	TurboSlitter-Pneumatic • Pneumatic (min. 70 PSI) (max. 90 PSI) • Lightweight shear head for easy one-hand control • Self contained, pneumatically driven
08010220	TurboSlitter-Cordless Drill Attachment • Drill Attachment (min. 14.4 V) • Lightweight shear head for easy one-hand control • Telescoping clamp fits large or small drill housing
08010203	Replacement Blades



08010210



08010220



Shown assembled on drill with case.

Cable Jacket and Innerduct Slitter

This popular tool makes quick, safe work of slitting innerduct or removing sheath and turnplate from communication cables. With a turn of the handle, the toothed wheel pulls the tool forward while the angled blade makes a clean cut. Blade guard protects conductors from damage. Minimum cable diameter 1" (25 mm). Slits 1"-2" (25-51 mm) innerduct.

Part Number	Description
08012900	Cable Jacket and Innerduct Slitter
08012901	Replacement Blade





Innerduct Slitter

Mechanical Innerduct Slitter is designed to reduce the effort required to longitudinally slit long sections of both High Density Polyethylene (HDPE) and Medium Density Polyethylene (MDPE) innerduct and conduit that have an outside diameter ranging from 1 1/4" (32 mm) to 2" (51 mm).

Each kit comes with the following:

- Slitter
- Double-sided replacement blade
- Blue leather storage bag
- Leather blade protector
- Allen key that fits all screws
- Set of instructions

Part Number	Description
08012925	Innerduct Slitter
08013101	Replacement Blade



Innerduct Slitter

The Innerduct Slitter is designed for fast, safe cutting of innerducts from 1" (25 mm) to 2" (51 mm).

Part Number	Description
08013100	Innerduct Slitter
08013101	Replacement Blade



Telephone Cable Cutters

Lightweight shear-type cable cutter for copper pair telephone cable. Not intended for cutting steel or ACSR.

Part No.	Description	Max Dia.	
		(in)	(mm)
08090300	30" (762 mm) steel handles	3.37	86



PVC & Polyethylene Cutter

Razor sharp cutting blade makes a fast, clean, burr-free cut in PVC and polyethylene. Ratcheting handle provides for sure, steady cutting action. Reduces cutting and preparation time.

Part Number	Description
08948050	Small diameter—up to 1 1/4" (32 mm) conduit with 1 1/2" (38 mm) O.D.
08948070	Large diameter—up to 2" (51 mm) conduit with 2 3/8" (60 mm) O.D.
08948051	Replacement Blade for Small Cutter
08948071	Replacement Blade for Large Cutter



Cable Bender

Bends power cable up to 750 kcmil with a 1 1/4" (32 mm) maximum cable diameter.

Part Number	Description
08090000	Cable Bender

Utility Cable Cutters

Lightweight shear-type cable cutter for copper and aluminum cable. Not intended for cutting steel or ACSR.



Part No.	Description	Cuts (max. kcmil)		Max Dia.	
		Copper/Alum.		(in)	(mm)
08012300	13" (330 mm) steel handles	350/350		.90	23
08012400	17" (432 mm) 600 V fiberglass handles	500/750		1.03	26
08012500	26" (660 mm) 600 V fiberglass handles	1000/1200		1.40	36

Ratcheting Cable Cutters

Easy one or two handed cutting for copper and aluminum power cables. Specially designed tempered blades combine with positive ratcheting action to cut through most cable. A release lever lets you break free from the load whenever necessary. Hardened steel ratchet teeth resist breakage and will last at least three times longer than inferior ratcheting cutters. Lightweight and portable.

Condex also offers replacement blades for this cable cutter.



Part No.	Description	Cuts (max. kcmil)		Max Dia.	
		Copper/Alum.		(in)	(mm)
08014000	Cutter	600-750		1 3/4	44
08014001	Replacement blade				

Cable Stripper/Slitter

Condex offers two sizes of the Stripper/Slitter for easy and rapid preparation of round cables from .18 (5 mm) up to 1.42 inch (36 mm) in diameter and 8 AWG up to 500 kcmil. They feature a spring-loaded cable support arm with a beveled leading edge that assists with insulation removal. The blade swivels to facilitate circular, longitudinal and spiral cuts.



Part No.	Description	Cutting Depth		Max Dia.	
		(in)	(mm)	(in)	(mm)
08013000	Small Diameter Stripper/Slitter	.118	3	.18-1.00	5-25
08013050	Large Diameter Stripper/Slitter	.177	4.5	.98-1.42	25-36
08013001	Replacement Blade (fits both sizes)				



MANHOLE COVER & GRATE REMOVER



US Patent #6,676,111

Mobile Manhole Cover and Grate Remover

The Condux Mobile Manhole Cover & Grate Remover is specially designed to make manhole cover and grate removal safe and easy. The cover and grate remover uses leverage to lift heavy manhole covers, catch basins and sewer grates. It is lightweight and portable, and offers single person operation.

The Condux Mobile Manhole Cover & Grate Remover is adjustable for various size covers. Attachments are also available for various manhole cover designs.

Lift capacity: 300 lbs [136 kg]

Part Number	Description
08025200	Mobile Manhole Cover and Grate Remover Kit: • Center Hole Cover Attachment • Edge Hole Cover Chain Attachment • Open Grate Attachment • Hook Lift 1.25" [31.8 mm] • Tool Cleaner • Extension Head, 18" [457.2 mm] • Storage Bag for Attachments



Mobile HD Manhole Cover and Grate Remover

The Condux HD Manhole Cover and Grate Remover provides portability and power for variety of lifting applications. The HD Manhole Cover and Grate Remover features pneumatic wheels for easy transport on any surface. The unit utilizes leverage to remove manhole covers and grates promoting job site safety and helping reduce the risk of knee and back injuries.

Travel Length: 50 inches
Working Length: 72 inches
Weight: 15 lbs
Lift Capacity: 350 lbs

Part No.	Description
08026250	Mobile HD Manhole Cover & Grate Remover Kit • HD Mobile Manhole Cover and Remover Body • 21" Extension Head • Handhole Chain Attachment • Center Hold Cover Attachment

Part No.	Description
08026260*	Mobile HD Manhole Cover & Grate Remover (Includes 21" Extension)

*Without Attachments.



US Patent #6,676,111

OTHER
PRODUCTS

Magnet HD Manhole Cover and Grate Remover

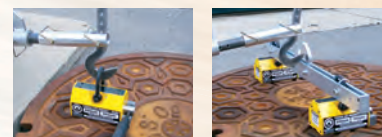
For difficult lifting situations, Condux offers the versatile Magnet HD Manhole Cover and Grate Remover. This unit is truly a heavy-duty tool, capable of lifting up to 450 lbs. Use the single-magnet configuration for standard projects and the two-magnet configuration for larger covers and grates. Various attachments and extension heads provide added functionality.

Travel Length: 55 inches
Working Length: 80 inches
Kit Weight: 85 lbs
Lifter Weight: 44 lbs
Lift Capacity: 450 lbs

Part No.	Description
08026300	Magnet HD Manhole Cover & Grate Remover Kit • Magnet HD Lifter Body • Magnet Spreader Bar Attachment • Two 660 lb Magnets • Lifting Hook Extensions

Part No.	Description
08026330*	Magnet HD Manhole Cover & Grate Remover (Includes Lifting Hook Extensions)

*Without Attachments.



US Patent #6,676,111

Tripod Lid Lifter

The Condux Manhole Cover & Grate Remover is specially designed to make manhole cover and grate removal safe and easy. The cover and grate remover uses leverage to lift heavy manhole covers, catch basins and sewer grates. It is lightweight and portable, and offers single person operation.

The Condux Manhole Cover & Grate Remover is adjustable for various size covers. Attachments are also available for various manhole cover designs. The cover and grate remover returns covers to their same position, helping eliminate cover repositioning.

Travel length: 59 inches (1,499 mm)
Working length: 91 inches (2,311 mm)
Lift capacity: 300 lbs (136 kg)

Part No.	Description
08025000	Manhole Cover and Grate Remover Kit: • Cantilever Lifting Bar with Tripod Base • 2 ft (610 mm) Handle Extension • Center Hole Cover Attachment • Edge Hole Cover Chain Attachment • Concealed Pick Hole Cover Attachment • Bag for Attachments
08025100	Cantilever Lifting Bar With Tripod Base
08025110	2 ft (610 mm) Handle Extension



1.



2.



3.

Attachments



Hook Adapter
Part # 08026331



Edge Hole Cover Chain Attachment
Part # 08025220



Concealed Pick Hole Cover Attachment
Part # 08025230



Center Hole Cover
Part # 08025210



Edge Hole Cover Chain
Part # 08025220



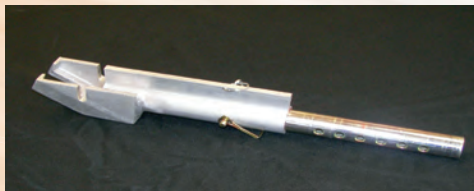
Concealed Pick Hole Cover
Part # 08025230



Two Hole Cover
Part # 08025250



Open Grate
Part # 08025260



18" Extension Head
Part # 08025270



Tool Cleaner
Part # 08025285



Hook Lift
Part # 08025280

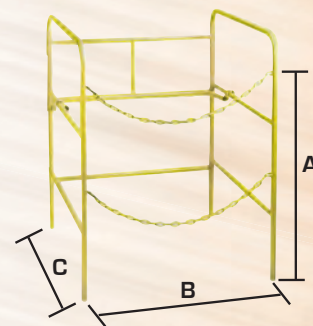
Attachment Compatibility Chart

Part Number	Description	Magnetic HD Lifter 08026330	Mobile Lid Lifter 08025200	Mobile HD Lid Lifter 08026260	Tri-pod Lid Lifter 08025000
08025210	Center Hole Cover Attachment	x	x	x	x
08025220	Edge Hole Cover Chain Attachment	x	x	x	x
08025230	Concealed Pick Hole Cover Attachment	x	x	x	x
08025250	Two Hole Cover Attachment	x	x	x	x
08025260	Open Grate Attachment	x	x	x	x
08025270	Extension Head 18"	x	x	x	
08025280	Hook Lift 1.25" (31.8 mm)		x		
08025285	Tool Cleaner		x		
08026240	Handhole Chain Attachment	x	x	x	
08026222	Extension Head 21"	x	x	x	
08026331	Lifting Hook Extension Magnet	x	x	x	
08026325	660 lb Magnet	x	x	x	

Manhole Guard Rail

Furnished with two steel chains and wing bow locking brace to assure sturdy protection. Painted safety yellow. Freestanding.

Part Number	Description	A Height		B Length		C Width		Weight	
		(in)	(mm)	(in)	(mm)	(in)	(mm)	(lbs)	(N)
08043300	Manhole Guard Rail	42	1066	32	812	32.25	819	32	14.5
08043301	Manhole Guard Rail with Shield Clamps	42	1066	32	812	32.25	819	32	14.5



High Impact Polymer Manhole Shield

Constructed of rugged lightweight polyethylene with bright yellow material that resists fading. Will fit 27", 30" and 32" diameter manholes with an inflatable seal that ensures a watertight seal. Designed with four (4) outrigger support gussets that stabilize the shield and is 12" tall to keep water and mud out of the manhole as you work. Can be used with Condux guardrail.

Part Number	Description
08043400	Manhole Shield
08043410	Watertight Seal (Sold Separately)

FYI
Inflate seal until manhole shield fits snugly in the manhole ring. Over inflating will cause the shield to pop out of the ring.



Manhole Cover Lifting Hooks

Part Number	Length	
	(in)	(mm)
08023001	18	457
08023000	26½	673
08023002	36	914
08023003*	36	914
08023005**	30	762

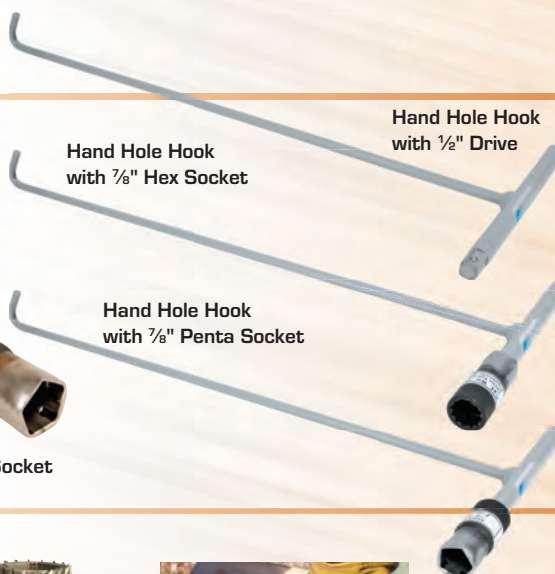
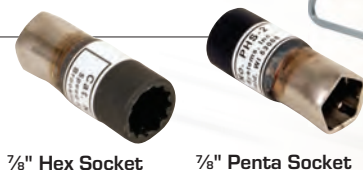
*36" long, 90° hook.
**30" long, 90° hook.



Hand Hole Hooks

The Hand Hole Hook from Condux allows you to easily unlock then hook and pull up to open the Hand Hole. Save time and effort on the job with the Hand Hole Hook from Condux.

Part Number	Description
08023012	Hand Hole Hook, no Socket
08023010	Hand Hole Hook with Socket
02290772	¾" Hex & ⅝" Penta Socket



Penta Buster

The Penta Buster[®] is designed to safely expel dirt and debris from the area around fasteners of ground-level electrical service boxes. The one-piece tool is comprised of rigid retractable teeth that loosen debris fragments from around the nut. By retracting the teeth, a socket is exposed that can be used to easily remove the nut or bolt fastener.

Part Number	Description
08023100	Penta Buster



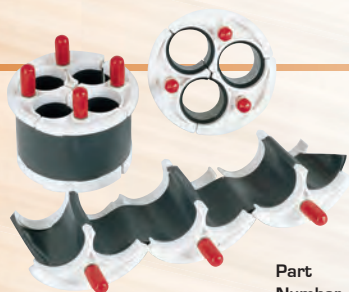


U.S. Patent No. 4,842,364.

Fiber Optic Innerduct Plug

Split plug with bushing assembly for sealing around cable in duct installations. Simple installation around in-place cables, seal all types of innerduct, ideal for manholes, buildings and cabinets. U.S. Patent No. 4,842,364.

Part Number	Size		Conduit I.D. Range		Cable O.D. Range	
	(in)	(mm)	(in)	(mm)	(in)	(mm)
08043910	1	25	1.00-1.14	25-29	.35-.57	9-14
08043911	1	25	1.00-1.06	25-27	.50-.70	13-18
08043912	1 1/4	32	1.22-1.36	31-35	.35-.57	9-14
08043913	1 1/4	32	1.22-1.36	31-35	.57-.70	13-18
08043914	1 1/4	32	1.24-1.34	31-34	.70-.90	18-23
08043915	1 1/2	38	1.50-1.65	38-42	.35-.57	9-14
08043916	1 1/2	38	1.50-1.65	38-42	.50-.70	13-18
08043920	2	51	1.98-2.20	50-56	.35-.57	9-14
08043921	2	51	1.98-2.20	50-56	.50-.70	13-18



Innerduct Organizer Plug

Removable and reusable duct seal holds innerduct securely and prevents migration. Easy installation requires no foam or chemicals.

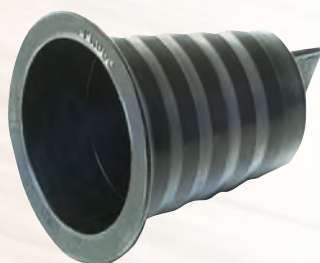
Part Number	Size		Conduit I.D. Range		Maximum number of Innerduct	Innerduct Size		Innerduct O.D. Range	
	(in)	(mm)	(in)	(mm)		(in)	(mm)	(in)	(mm)
08093436	4	102	3.97-4.13	101-105	4	1	25	1.19-1.36	30-35
08093442	4	102	3.97-4.09	101-104	3	1 & 1 1/8	25 & 29	1.30-1.42	33-36
08093467	4	102	3.97-4.09	101-104	3	1 1/8 & 1 1/4	29 & 32	1.53-1.67	39-42



Non-Metallic Eye Nut Plug

Made of durable, expansive polyurethane with rugged polypropylene compression plates and eye nut. No tools required for installation. Completely water and air tight. Max air pressure 15 psi.

Part Number	Size		Conduit I.D. Range	
	(in)	(mm)	(in)	(mm)
08067825	2 1/2	64	2.34-2.91	59-74
08067830	3	76	2.99-3.46	76-88
08067840	4	102	3.94-4.33	100-110
08067850	5	127	5.00-5.35	124-136
08067860	6	152	5.82-6.37	148-162



Universal Plug

For temporarily plugging duct, bell-ends and terminators. These polyethylene plugs come in sizes to fit all types of manufactured duct, even when the duct is bell-ended or a coupling is attached. The Universal Plug's extended lip design permits easy extraction.

Part Number	Size		Conduit I.D. Range	
	(in)	(mm)	(in)	(mm)
08047400	2	51	1.20-2.60	30-66
08047500	3	76	2.75-3.65	70-93
08047601	4	102	3.70-4.70	94-119
08047700	5	127	4.80-5.75	122-146
08047800	6	152	5.82-6.80	148-173

Taper of Universal Plugs



Comfit Plug

Part No.	Nominal OD (mm/inches)	Range (mm/inches)	Units per box
08047110	33.4mm/1"	26-31mm/ 1.024-1.220"	120
08047112	42.2mm/1¼"	31-39mm/ 1.201-1.535"	90
08047115	48.3mm/1½"	38-49mm/ 1.496-1.929"	60
08047120	60.3mm/2"	47-62mm/ 1.850-2.441"	35

Cable Racks

Supports cable runs in manholes and vaults. Made of 1½" x ¾" x ¾" (38 x 14 x 5 mm) hot rolled steel channel, hot dip galvanized. T-slots for attaching hooks are spaced at 1½" (38 mm) intervals. The 8, 14 and 18 hole racks have 1⅞" x ¾" (15 x 19 mm) mounting slots at each end that interlock so two or more racks may be combined into one unit. Longer racks are mounted through the T-slots. Use ½" or M12 mounting hardware (see pg. 162).

Part Number	Support Holes	Length		Bolt Hole Spacing	
		(in)	(mm)	(in)	(mm)
08380000	8	15	381	13½	343
08380100	14	24	610	22½	572
08380200	18	30	762	28½	724
08380300	37	55¼	1,403	-	-
08380400	43	64¼	1,631	-	-
08383500	47	70¼	1,784	-	-
08380500	54	81	2,057	-	-

Cable Rack Hooks

Designed to fit snugly into the rack slots. Turned up ends prevent cable or rack insulators from slipping off. Manufactured from ¾" (5 mm) steel and hot dip galvanized with smooth surfaces to prevent cable damage. Cable rack hooks load rated to 300 lbs.

Part Number	Ext.	
	(in)	(mm)
08380600	4	102
08380700	7½	190
08380800	10	254
08380900	14	356
08381000	18	457

Plastic Retaining Clip

Part Number	Description
08381210	Plastic Retaining Clip

Cable Rack Insulator

Made of glazed porcelain, the insulators rest on the cable rack hooks, providing additional protection for the cable.

Part Number	Groove Radius		Groove (A) Width		Groove (B) Width	
	(in)	(mm)	(in)	(mm)	(in)	(mm)
08381200	1½	38	2¾	70	3	76

Cable Rack Support

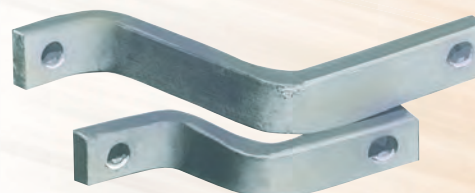
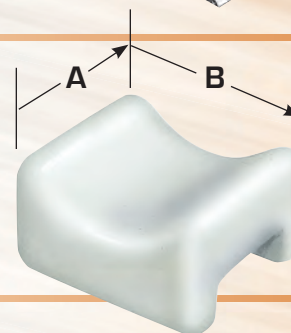
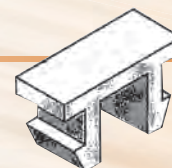
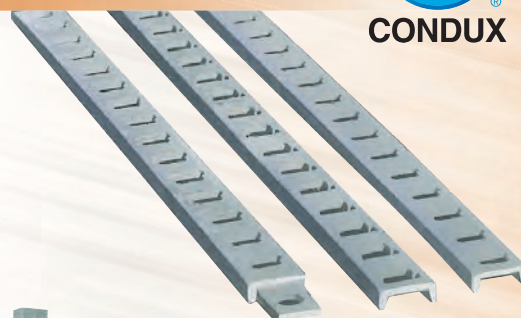
To extend the racks away from the wall and avoid obstructions or water seepage. Each rack requires two supports. Hot dip galvanized. Use ½" or M12 mounting hardware (see pg. 162).

Part Number	Steel Size		Ext. from wall	
	(in)	(mm)	(in)	(mm)
08381500	.5 x 1.00	13 x 25	3⅞	89
08383900	.5 x 1.00	13 x 25	6⅞	165
08383800	.5 x 1.25	13 x 32	6⅞	165

Corner Rack Support

To bolt the racks at manhole corners. Mounting bolt holes for ½" or M12 bolts (see pg. 162). Formed of 1½" x ¼" (38 x 6 mm) steel and hot dip galvanized.

Part Number	Description
08383700	9" x 12" (228 x 305 mm) legs
08383600	12" x 12" (305 x 305 mm) legs





CONDEX

MANHOLE EQUIPMENT & ACCESSORIES

Manhole Ladders

All ladders are manufactured of steel. The rungs pass through the side rails and are riveted or welded. The unique design assures a rung cannot turn.

FYI
Ladders are 300 lb.
(136 kg) rated.

Features:

- 5/8" (16 mm) diameter knurled rungs on 12" (305 mm) centers
- 12" (305 mm) clear between side rails
- 5/8 x 1 1/2" (10 x 38 mm) side rails, through 12' (3.7 m) lengths
- 5/8 x 2 1/2" (10 x 64 mm) side rails, 13' (4.0 m) length and above
- Twisted hook is integral part of side rail
- Approx. weight is 5 lbs. (2.3 kg) per foot of length, through 12' (3.7 m)
- Approx. weight is 7.6 lbs. (3.4 kg) per foot of length, over 12' (3.7 m)

Part Number	Description
08381955	Manhole Ladder, 5.5' (1.7 m) long
08381900	Manhole Ladder, 6.5' (2.0 m) long
08382000	Manhole Ladder, 7.0' (2.1 m) long
08382100	Manhole Ladder, 8.0' (2.4 m) long
08382200	Manhole Ladder, 9.0' (2.7 m) long
08382300	Manhole Ladder, 10.0' (3.0 m) long
08382400	Manhole Ladder, 11.0' (3.4 m) long
08382500	Manhole Ladder, 12.0' (3.7 m) long
08382600	Manhole Ladder, 13.0' (4.0 m) long
08382700	Manhole Ladder, 14.0' (4.3 m) long
08382800	Manhole Ladder, 15.0' (4.6 m) long
08382900	Manhole Ladder, 16.0' (4.9 m) long
08384100	Manhole Ladder, 18.0' (5.5 m) long
08384200	Manhole Ladder, 20.0' (6.1 m) long
08384000	Manhole Ladder, 22.0' (6.7 m) long



Manhole Ladders—Wall Mount

All ladders are manufactured of steel. The rungs pass through the side rails and are riveted or welded.

Features:

- 5/8" (16 mm) diameter deformed rungs on 12" (305 mm) centers
- 14" (356 mm) clear between side rails
- 2 x 1 x 1/8" (51 x 25 x 3 mm) channel side rails
- Furnished with 4 unattached floor/ceiling brackets - 7" (178 mm) offset standard
- Wall mounting brackets may be used
- Approx. weight is 5.5 lbs. (2.5 kg) per foot of length

Part Number	Description
08381901	Manhole Ladder, wall mount, 6.5' (2.0 m) long
08382001	Manhole Ladder, wall mount, 7.0' (2.1 m) long
08382101	Manhole Ladder, wall mount, 8.0' (2.4 m) long
08382201	Manhole Ladder, wall mount, 9.0' (2.7 m) long
08382301	Manhole Ladder, wall mount, 10.0' (3.0 m) long
08382401	Manhole Ladder, wall mount, 11.0' (3.4 m) long
08382501	Manhole Ladder, wall mount, 12.0' (3.7 m) long
08382601	Manhole Ladder, wall mount, 13.0' (4.0 m) long
08382701	Manhole Ladder, wall mount, 14.0' (4.3 m) long
08382801	Manhole Ladder, wall mount, 15.0' (4.6 m) long
08382901	Manhole Ladder, wall mount, 16.0' (4.9 m) long
08384101	Manhole Ladder, wall mount, 18.0' (5.5 m) long
08384201	Manhole Ladder, wall mount, 20.0' (6.1 m) long
08384001	Manhole Ladder, wall mount, 22.0' (6.7 m) long

Optional Floor/Ceiling Brackets

Part Number	Description
08382902	7" (178 mm) offset
08382904	12" (305 mm) offset
08382906	16" (406 mm) offset

ORDER CAREFULLY

This item
is made-to-order
and is not
returnable



Pulling-In Irons

Set into the walls of the concrete manholes opposite all duct entrances to provide a strong, convenient attachment for pulling-in blocks when installing or removing cables. Manufactured with 7/8" (22 mm) diameter steel and hot dip galvanized.

Part Number	Description
08383000	9" (228 mm) w/retaining plate
08383001	9" (228 mm) w/cross bar & retaining plate
08383002	9" (228 mm) w/opposing bends
08381300	12" (305 mm) w/retaining plate
08381301	12" (305 mm) w/cross bar & retaining plate
08381302	12" (305 mm) w/opposing bends

Mounting Hardware

Part Number	Description
02063303	Capscrew, 1/2-13 x 1.25", grade 5, hot galvanized
12008202	Capscrew, 1/2-13 x 1.50", grade 5, hot galvanized
12022003	Capscrew, 1/2-13 x 1.75", grade 2, hot galvanized
08384800	Capscrew, 1/2-13 x 2.00", grade 5, hot galvanized
02155703	Capscrew, 1/2-13 x 2.50", grade 2, hot galvanized
02010003	Lockwasher, 1/2", hot galvanized
12008303	Flatwasher, 1/2", hot galvanized
02125103	Hex Nut, 1/2-13, hot galvanized

Expansion Anchor

For use in pre-drilled holes. Plug expands as anchor is driven into it making a solid hold in concrete.

Part Number	Description	Allowable Working Loads*			
		Tension		Shear	
(lbs)	(N)	(lbs)	(N)	(lbs)	(N)
08409900	3/4"-10 UNC Threads	4,010	17,836	4,400	19,571
08409901	5/8"-11 UNC Threads	2,420	10,764	3,050	13,566
08409902	1/2"-13 UNC Threads	1,690	7,517	1,560	6,939

*NOTE: Allowable working loads are in 4000 psi concrete.
Allowable shear loads are based on the use of SAE Grade 5 capscrews.



OTHER
PRODUCTS

The Condux QuickTent

The Condux QuickTent is a portable, freestanding work shelter suitable for use in all kinds of weather conditions. Designed for one person to set up in a matter of seconds, the Condux QuickTent features a fiberglass frame and urethane coated nylon cover that will provide years of dependable service. The QuickTent comes in five sizes, each of which provides a roomy working environment, and folds down to fit into a small, lightweight carrying bag which is sewn into the tent. Other features include:

- Roll-up door with velcro or zipper closures
- Window / vent with closing flap
- Exhaust port
- 12" (305 mm) skirt around the base
- Built-in wind lines for tethering



Easy set-up



Tent Specifications							
Part Number	Description	Dimensions (Set Up) ft (m)	Dimensions (Packed) in (mm)	Weight lbs (kg)	Door Size ft (m)	Window / Vent Size in (mm)	Exhaust Port Diameter in (mm)
08672400	4 x 4 tent w/velcro door	4 x 4 x 6.5 (1.2 x 1.2 x 2)	8 x 48 (203 x 1,219)	24 (11)	3 (.9)	12 x 36 (305 x 914)	10 (254)
08672500 08672510	6 x 6 tent w/velcro door 6 x 6 tent w/zipper door	6 x 6 x 6.5 (1.8 x 1.8 x 2)	8 x 69 (203 x 1,753)	32 (15)	4 (1.2)	12 x 36 (305 x 914)	10 (254)
08672600 08672520 08672525	8 x 8 tent w/velcro door 8 x 8 tent w/zipper door 8 x 8 tent 1 slit door w/zipper	8 x 8 x 7.5 (2.4 x 2.4 x 2.2)	8 x 95 (203 x 2,413)	40 (18)	4 (1.2)	12 x 36 (305 x 914)	10 (254)
08672700	10 x 10 tent w/velcro door	10 x 10 x 8 (3 x 3 x 2.4)	9 x 96 (228 x 2,436)	63 (28)	4 (1.2)	12 x 36 (305 x 914)	10 (254)
08672720	10 x 12 tent w/velcro door	10 x 12 x 8 (3 x 3.6 x 2.4)	9 x 96 (228 x 2,436)	70 (31)	4 (1.2)	12 x 36 (305 x 914)	10 (254)



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Power
Telephone/CATV

Power Equipment Sales Company
100 Conifer Hill Drive Suite 512
Danvers, MA 01923
Ph: 978-774-6680
Fax: 978-777-7261
E-mail: passelin@powerequipmentsalesco.com

Electrical

MICHIGAN

Utility Sales Associates, Inc.
930 East Oak Street Suite 1
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Ph: 800-253-6248
Fax: 800-498-8078
Email: al.stearns@utilitiesales.net

Power
Electrical
Telephone/CATV

MINNESOTA

Upper Midwest Utility Sales
501 Maple Avenue North
Maple Lake, MN 55358
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Fax: 320-963-5884
Email: umus@lakedalelink.net

Power
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MISSISSIPPI

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Safety Harbor, FL 34695
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NEVADA

Underground Sales
1590 S. Miliken Avenue Unit D
Ontario, CA 91761
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TERMS & CONDITIONS DOMESTIC CUSTOMERS

General Terms

SHIPPING TERMS

F.O.B. Mankato, Minnesota. Freight prepaid and billed Subject to prior credit approval.

LOSS OR DAMAGE

Loss or damage in transit are the responsibility of the carrier. Any claim should be filed with the delivering transport company. Invoice Bill of Lading, and Delivery receipt with damage noted therein must accompany any claims for freight damage. Claims for shortage and lost shipments must be made in writing to Condux International, Mankato, MN within 60 days of date of shipment. Claims not reported within this time frame will not be honored.

PRICES

Prices are subject to change without notice. All orders subject to acceptance at the factory. We reserve the right to invoice prices in effect at time of shipment.

TERMS

Net 30 days

Returned Goods Policy

- All returned goods must be authorized within 6 months of the invoice date.
- No returned materials will be accepted without an accompanying Returned Materials Authorization from the factory.
- Full Credit will be issued for returned goods with an accompanying order of equal value. There is a 25% restocking charge on returns without an accompanying order of equal value.
- Credit value will be based on the actual price paid.
- Customer must be in good credit standing with Condux.
- Discontinued, shopworn, unboxed material, or material in non-standard package quantities is excluded and will not be eligible for credit.
- Customer pays return freight.

Please ship authorized returns to:

Condux International, Inc.
145 Kingswood Drive, Mankato, MN 56002 U.S.A.
Return Freight Prepaid

Limited Warranty

Condux International, Incorporated extends the following warranty to the original purchaser of these goods for use, subject to the qualifications indicated: Condux International, Inc. warrants to the original purchaser for use that the goods or any component thereof manufactured by Condux International, will be free from defects in workmanship for a period of 1 year from the date of purchase* provided such goods are installed maintained, and used in accordance with Condux International, International's and the original manufacturer's written instructions.

Components not manufactured by Condux International, but used within the assembly provided by Condux International, are subject to the warranty period specified by the individual manufacturer of said component, provided such goods are installed, maintained, and used in accordance with Condux International's written instructions. Condux International's sole liability and the Purchaser's sole remedy for a failure of goods under this limited warranty, and for any and all claims arising out of the purchase and use of the goods, shall be limited to the repair or replacement of the goods that do not conform to this warranty.

To obtain repair or replacement service under the limited warranty, the purchaser must contact the factory for a Return Material Authorization (RMA). Once obtained, send the Return Material Authorization along the defective part or goods to: Condux International, Inc. 145 Kingswood Drive, Mankato, MN 56002, U.S.A. freight prepaid.

THERE ARE NO EXPRESS WARRANTIES COVERING THESE GOODS OTHER THAN AS SET FORTH ABOVE, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO ONE YEAR FROM DATE OF PURCHASE.

CONDUX ASSUMES NO LIABILITY IN CONNECTION WITH THE INSTALLATION OR USE OF THE PRODUCT, EXCEPT AS STATED IN THIS LIMITED WARRANTY, CONDUX WILL IN NO EVENT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

***Except for the 819 Directional Drilling Swivels, 400 Series D.Drill Directional Drilling Swivels, PE/PVC Pulling Eyes, Directional Drilling Break-Away Swivels and Ground Rod Drivers, which carry a 90 day limited warranty.**



Condux International, Inc.
145 Kingswood Drive • P.O. Box 247
Mankato, MN 56002-0247 U.S.A.

Toll Free in U.S. and Canada: **1-800-533-2077**
International: 1-507-387-6576 • FAX: 1-507-387-1442

Product Information



Catalogs

Part Number	Description
CAT13-DOM	2013 Domestic Catalog, English

DVD's

Part Number	Description
08678321	CableGlider
08675101	Fiber Optic Cable Puller
08780423	LW Blower

See Website for Catalog, User Guides, Safety Manuals & DVD's
www.condux.com.

User's Guides & Safety Manuals

Part Number	Catalog Description
08012992	Cable Jacket & Innerduct Slitter
08013085	Duct Mandrels
08013089	Cable Jacket Stripper / Slitter
08013096	Jacket Stripper / Slitter Blade Replacement
08013198	Innerduct Slitter
08014092	Ratcheting Cable Cutters
08015089	Break-Away Swivel Break Pin Replacement
08017399	Break-Away Swivels
08025099	Manhole Cover & Grate Remover
08026259	HD Lid Lifter Manual
08026359	Magnet Lid Lifter Manual
08030089	Power Dart® Blower, 110 Volt
08032907	Quick Connect Low Pressure Seal-Offs
08035788	Splice Kit - 3/16" & 1/4" Duct Rod
08041494	Hooked Hanger Sheaves
08042639	4,000 Hooked Hanger Sheave Manual
08081589	Fiberglass Duct Rodders
08091298	Rope to Swivel Clevis
08091299	Rope to Rope Clevis
08097099	Jamb Skid
08190091	Break-Away D.Drill® Swivels
08190092	Break-Away D.Drill® Break Pin Replacement
08190093	D.Drill® Swivels
08220099	PE & PVC Pulling Eyes
08539099	Quadrant Blocks & Cable Guides
08549299	Pulling Harnesses
08610698	CableGlider® Cable Pullers
08637898	Underground Fiber Optic Sheave
08637899	Overhead Fiber Optic Sheaves
08672499	QuickTents
08674099	Floor / Conduit / Pole Mount Frames
08674699	Floor Mount Frames
08674999	Extension Frames
08675104	Fiber Optic Puller Remote Stand
08675299	Portable Hydraulic Power Pack
08675881	Fiber Optic Cable Pullers
08675909	Fiber Optic Puller Hitch Mount
08676099	Fiber Optic Puller Pole Mount
08678299	LW Cableglider Manual
08678369	Tripod LW Cableglider Manual
08760099	Slip Clutch Capstan
08761459	Duct Pressure Test Kit
08761702	Air Cooler
08763295	WDR505 A-Frame Manual
08780993	Fiber Optic Cable Blower Belt Replacement
08780998	LW Fiber Optic Cable Blower Quick Reference Guide
08780999	LW Fiber Optic Cable Blower
08913393	Innerduct Pulling Eyes
08917089	Reusable Power Pulling Eyes
08920097	Pulling Eye Crimper Kit
18000698	Pole Mount Cable Blocks



Part Number	Catalog Description
18000699	Single Roller Cable Blocks
18010099	Mullen (Hand) Cable Benders
18010199	Throwing Weight
18100099	Set-Up Bracket
18100199	Reel Buck
18101998	90° Corner Blocks
18101999	90° Large Diameter Corner Block
18103499	Pole Mount Multi Block Hanger
18103599	45° Large Diameter Corner Block
18103699	Multiple Roller Blocks
18104499	Pole Bracket
18105899	Cable Chute
18106099	Pole Bracket Adapter
18107999	Strand Brakes
18108099	Aerial Cable Pullers
18108499	Cable Benders
18109299	Cable Block Pushers
18110899	Wire Raising Tools
18110899	Cable Block Lifters
18120499	Cable Caddies
18151599	Economy Overlash Blocks
18152099	Center Conductor Cleaner
18308099	Overlash Aerial Cable Puller
18401099	Economy Cable Blocks
18403099	Overlash Cable Blocks

FYI

All Condux literature and manuals can be viewed and downloaded at condux.com.



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