

CABLE INSTALLATION

TOOLS & EQUIPMENT CATALOG

WWW.CONDUX.COM

2025

2509A

CONDUX®

See Website for Catalog, User Guides, and Safety Manuals • **www.condux.com.**

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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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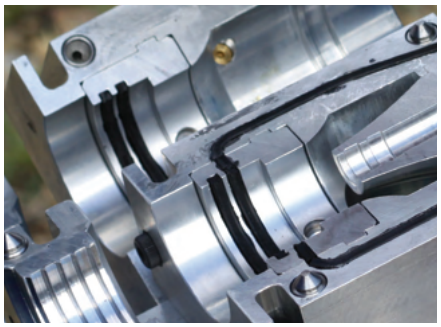
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CONDUX INTERNATIONAL

True Blue

Condux True Blue starts well before any product leaves the building. It starts with a commitment and responsibility to provide the highest level of quality and service with each interaction. True Blue is customer service helping you spec a product, manufactured to the highest quality standards, ensuring you can use it over and over and over. True Blue is all about intelligently engineered and field proven products. True Blue is the culmination of decades of experience synthesized into exceptional products and the confidence that comes with knowing Condux is working for you!

Tools to Connect the World



Condux International's complete line of cable installation tools and equipment is the most advanced and comprehensive in the industry. Condux International has been the premier manufacturer of cable installation tools and equipment for the telecom, fiber optic and electric power markets for over 40 years. Condux products allow safe, quick and accurate installation of fiber optic and power cables.

Equipment Engineered & Built to Improve Jobsite Performance

With everything from large fiber optic blowers, handheld cable pushers to capstan-based cable pullers, Condux has exactly what you need to successfully complete your cable installation project.



Good businesses know the importance of productivity and efficiency. That's why Condux take prides in working directly with the industries it serves to offer tools that are engineered to reduce installation time and increase safety.

Customer Service You Can Count On

The Condux team works with you from the very start, helping you select the best method, tools and equipment that match your installation needs and provide the most value.

Every tool Condux sells is backed by a commitment to reliable customer service. Condux will help train your staff, service your equipment and help you with outstanding technical support. Condux's network of representatives and customer service personnel are there to provide the industry's most knowledgeable support.

Condux University

The cable installation training you need to be safe, effective, and efficient on the jobsite. In-person classroom learning combined with hands-on product demos at the Condux training facility in Mankato, MN.

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CONDUIT SUPPORT SYSTEMS

Additional information available at www.CONDUX.com











Underbridge & Structure Hangar Systems

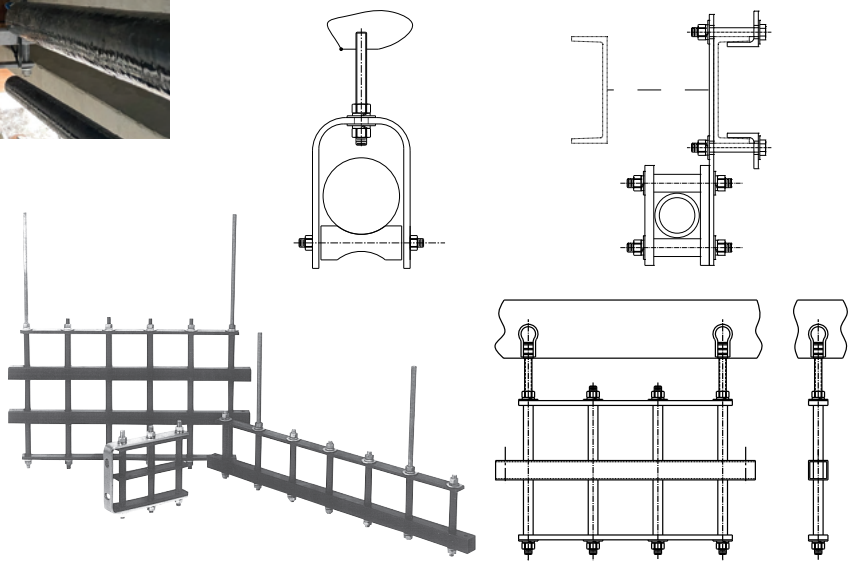
Condux is the world's leading designer and manufacturer of conduit support systems for bridges and building structures, as well as bore and open trench spacers.

Condux's expertise spans building structures and 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.

Condux can help with any special design problems and do it in a timely and cost-effective manner. Condux provides the necessary information and technical assistance at each step of a bridge hanger project, including a materials list and a system design layout. 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 Conduit Support System. No matter what stage of the project you are in, Condux can help.



Condux Bore & Open Trench Spacers

Encasing underground conduit inside of steel pipe casings or in open trench spacers is a common 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. Spacers align and hold the conduit true inside the pipe casing or open trench. Proper engineering of these spacers is critical to the reliability and longevity of the system.

Condux International is one of the largest producers of bore spacers and trench spacers in the United States. Condux spacers provide the significant benefits:

Optimum Design—In many instances, the use of well-designed bore spacers 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 may balance the cost of the bore spacers, essentially making the bore spacers "free", while improving the ease of installation.

The use of open trench spacers allows for safe and easy assembly of the duct bank above ground before lowering it into the trench. This reduces the installation cost by allowing use of smaller trenches as no extra room is required to keep workers safe from the potential of trench walls caving in.

Waterjet Technology—Utilizing computer aided design, the waterjet process is used to produce a cleaner, more accurate 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 spacers are ready for shipment in 2 to 3 weeks.

Ease of Use—Bore spacers can be equipped with optional casters making the installation process smooth and easy. Open trench spacers can be ordered with or without feet.





Easy Order Process

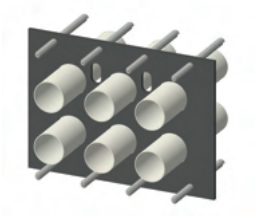
For inquiries, contact Customer Service at 1-800-533-2077 or conduxinfo@condux.com with the following application information:

Bore Spacer Application 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 & grout hole configuration, and if casters will be required
- Sketch of spacer
- Quantity required

Open Trench Spacer Application Information:

- Conduit size
- Number of conduit high
- Number of conduit wide
- Minimum separation between conduits
- Length of run
- Sketch of spacer
- Quantity required



DUCT RODDERS



Duct Rodders

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

Condux 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. The 30" (762 mm) and 45" (1,143 mm) cages come with wheels for added mobility. Cage sizes are matched to suit the rod you order.

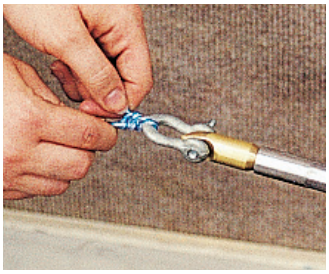
End Fittings Included

Condux Duct Rodders come equipped with a threaded end fitting on each end, and 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 to determine the diameter of rod you need.

All Duct Rodders come standard with a repair kit.



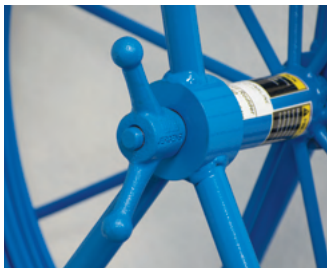
Duct rodder accessories (pgs. 9 - 11) are available to fit your rodding application.



End fittings are included with Condux duct rodders. See Duct Rodder Accessories for size and part number (pgs 9 - 11).



Condux duct rodders feature sturdy construction and reliable performance.



Hand-operated wheel brake adds control and safety.

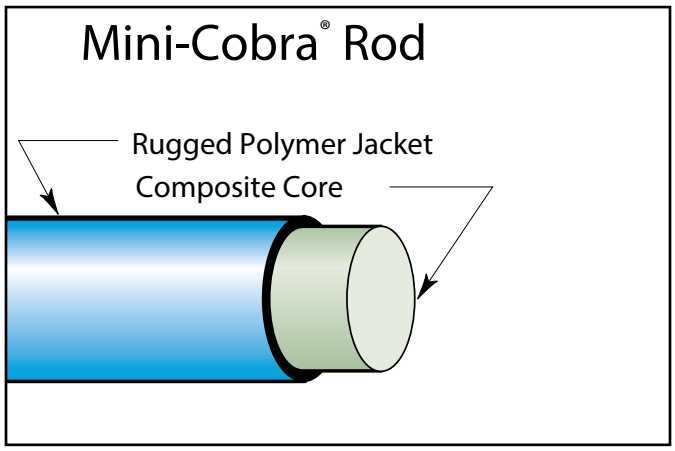
Duct Rod Specifications

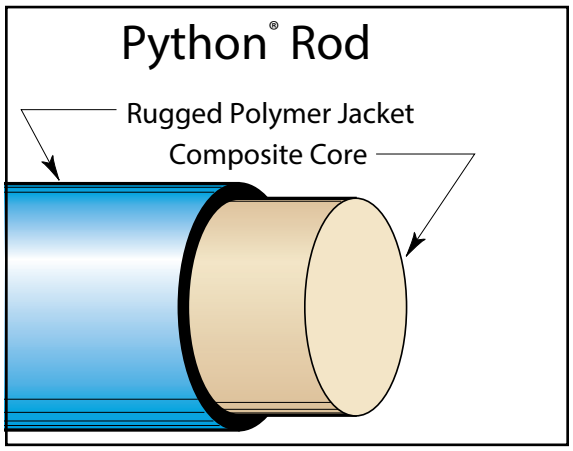
Duct Rod Diameter		Duct Rod Pull Strength		Minimum Bending Radius	
(in)	(mm)	(lbs)	(n)	(in)	(mm)
3/16	5	200	890	3	76
1/4	6	350	1,557	5	127
5/16	8	950	4,226	7	178
7/16	11	950	4,226	11	280
1/2	13	1,400	6,227	11	280

Two Types of Rod

Each Condux duct rodder has a glass reinforced composite core jacketed in a rugged plastic coating to ensure long life. They 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.







MINI-COBRA®: Condux's Mini-Cobra includes 3⁄16" (5 mm) and ¼" (6 mm) diameter rods used primarily for smaller duct sizes and shorter runs. The rod has the same flexibility and strength features of the Python rod and comes wound in 16" (406 mm) and 24" (610 mm) cages in 100' (30.48 m) to 600' (182.88 m) lengths. Includes two male end fittings and two tapered heads.

PYTHON®: The Python rod has flexibility and 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.

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.

RECOMMENDED DUCT RODDER SIZES FOR CONDUIT													
Conduit Size	1/2" (13mm)	3/4" (19mm)	1" (25mm)	1 1/4" (32mm)	1 1/2" (38mm)	2" (51mm)	2 1/2" (64mm)	3" (76mm)	3 1/2" (89mm)	4" (102mm)	5" (127mm)	6" (152mm)	8" (203mm)
Recommended Duct Rodder Size(s)	3/16" (5mm)	3/16" (5mm)	3/16" (5mm) 1/4" (6mm)	3/16" (5mm) 1/4" (6mm)	1/4" (6mm) 5/16" (8mm)	1/4" (6mm) 5/16" (8mm)	1/4" (6mm) 5/16" (8mm)	5/16" (8mm) 7/16" (11mm) 1/2" (13mm)	5/16" (8mm) 7/16" (11mm) 1/2" (13mm)	5/16" (8mm) 7/16" (11mm) 1/2" (13mm)	7/16" (11mm) 1/2" (13mm)	7/16" (11mm) 1/2" (13mm)	1/2" (13mm)

***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 assistance.**

DUCT RODDERS

Duct Rodders (U.S. Threads - USC)

3/16" MINI-COBRA ROD		
#12-24 End Fitting 16" Cage		
Use for duct size .5"- 1.25"		
Part Number	**Length (l)**	**Replacement Rod**
08072410	100	08073610
08072420	200	08073620
08072430	300	08073630

1/4" MINI-COBRA ROD		
5/16"-18 End Fitting 24" Cage		
Use for duct size 1" - 2.5"		
Part Number	**Length (l)**	**Replacement Rod**
08072510	100	08073710
08072520	200	08073720
08072530	300	08073730
08072540	400	08073740
08072550	500	08073750
08072560	600	08073760



5/16" PYTHON ROD		
3/8"-16 End Fitting 30" Cage		
Use for duct size 1.5" - 4"		
Part Number	**Length (l)**	**Replacement Rod**
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

7/16" PYTHON ROD		
3/8"-16 End Fitting 45" Cage		
Use for duct size 3" - 6"		
Part Number	**Length (l)**	**Replacement Rod**
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
08083905	1250	08086505
08083915	1500	08086515

1/2" PYTHON ROD		
3/8"-16 End Fitting 45" Cage		
Use for duct size 3" - 8"		
Part Number	**Length (l)**	**Replacement Rod**
08083530	300	08086630
08083540	400	08086640
08083550	500	08086650
08083560	600	08086660
08083570	700	08086670
08083580	800	08086680
08083590	900	08086690
08083510	1000	08086610

ORDER CAREFULLY
This item is made-to-order and is not returnable.

*all duct rodders come standard with a repair kit

Footage Marks

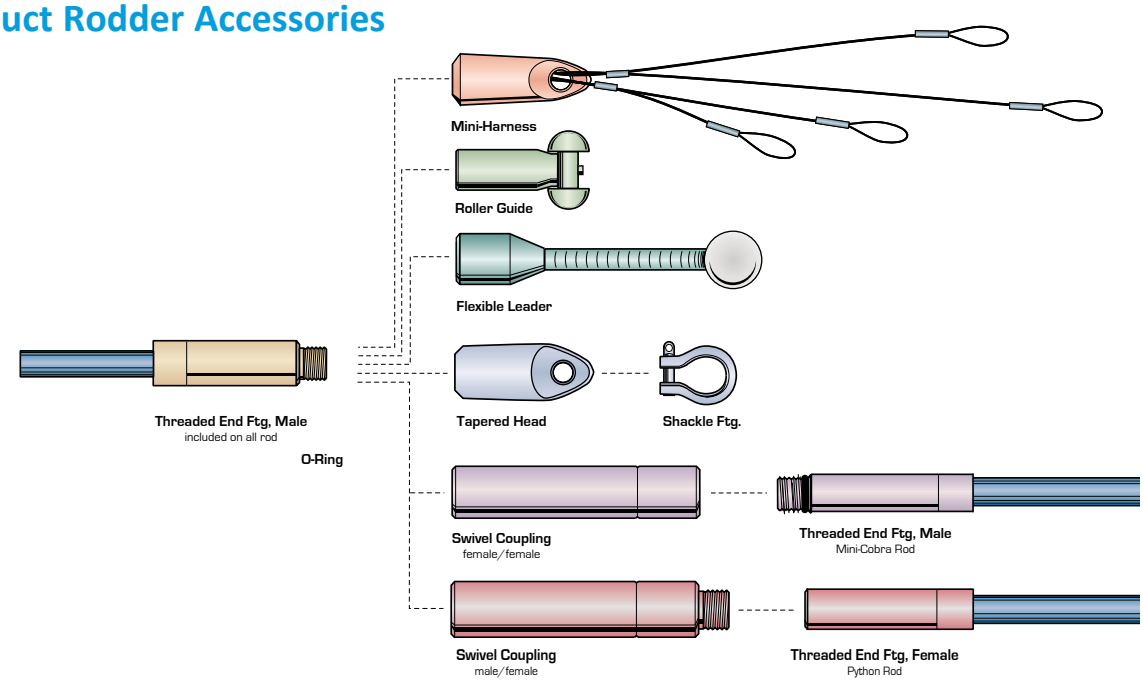
Optional footage marks are available on 5⁄16", 7⁄16" and 1⁄2" Python duct rod. Order footage marks by adding an F to the end of the existing part number. Footage marks are every two feet.



Example: If you were ordering 7⁄16" Python Rod, 1250 feet long you would order: 08083905F.

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)	1/2 (13)
USC Thread	**#12-24**	**5/16–18**	**3/8–16**	**3/8–16**	**3/8–16**
Accessory Kit	08033498	08033499	08033497	08033494	08033491

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

Bag Only	08033490



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)	1/2 (13)
Replacement Kit	08035770	08035772	08035774	08035776	08035777



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)	1/2 (13)
Splice Kit	08033457	08033465	08035753	08035751	08035752
Splice Tube Only	08033455	08033463	08035703	08035701	08035702

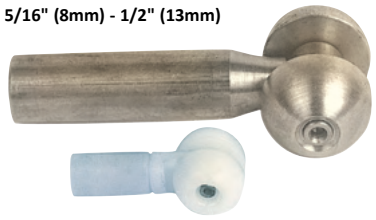


Epoxy

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

DUCT RODDER ACCESSORIES



Roller Guide

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

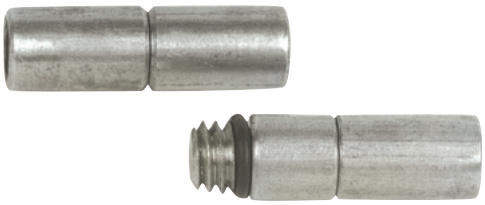
US Duct Rodders Rod Diameter (in)	USC Thread	Roller Guide Part Number	Duct Range I.D. (in)
3/16	#12-24	08037430	.50 - 1.25
1/4	5/16-18	08037440	1.00 - 2.50
5/16	3/8-16	08037460	1.50 - 6.00
5/16	3/8-16	08037401	2.50 - 6.00
7/16	3/8-16	08037401	2.50 - 6.00
1/2	3/8-16	08037401	3.00 +



Flexible Leader

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

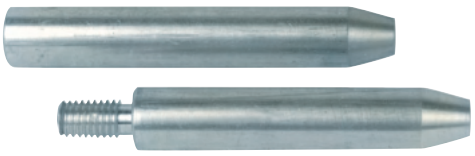
Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	1/2 (13)
USC Thread	#12-24	5/16–18	3/8–16	3/8–16	3/8–16
Flexible Leader	08033423	08033443	08037538	08037538	08037538



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.

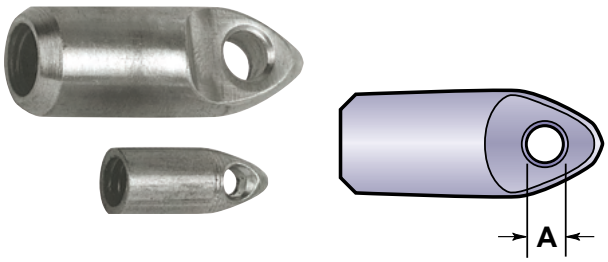
Rod Dia., in (mm)	3/16 (5)	1/4 (6)	5/16 (8)	7/16 (11)	1/2 (13)
USC Thread	#12–24	5/16–18	3/8–16	3/8–16	3/8–16
Female/Female	08033470	08033459	-	-	-
Male/Female	08033422	08033442	08036800	08036800	08036800



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)	1/2 (13)
USC Thread	#12–24	5/16–18	3/8–16	3/8–16	3/8–16
Male	08033420K	08033440K	08036307K	08036303K	08036341K
Female	-	-	08036306K	08036304K	08036342K



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)	1/2 (13)
USC Thread	#12–24	5/16–18	3/8–16	3/8–16	3/8–16
Tapered Head	08033421	08033441	08038400	08038400	08038400
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)	1/2 (13)
USC Thread	#12–24	5/16–18	3/8–16	3/8–16	3/8–16
O-Rings	02163600	02215000	–	–	–



Duct Rodder Replacement Brake Handles

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

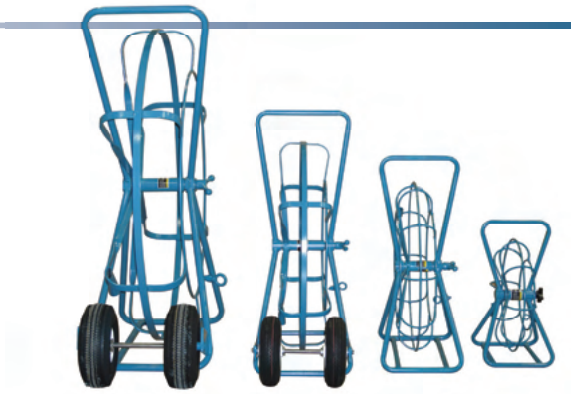
Part No.	Description
02218300	16" (406 mm) Duct Rodder Replacement Brake Handle
08081547	24" (610 mm) Duct Rodder Replacement Brake Handle
08081547	30" (762 mm) Duct Rodder Replacement Brake Handle
08081567	45" (1,143 mm) Duct Rodder Replacement Brake Handle



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)	1/2 (13)
Replacement Cage	08081516R	08081524R	08081530R	08081550R	08081550R



45" (1143 mm) 30" (762 mm) 24" (610 mm) 16" (406 mm)

Fiberglass Hand Rods

Screw together fiberglass duct rods for straight runs. All rods equipped with 3/4"-10 end fittings. 2,500 lbs. (11,120 N) pull rating.

Part Number	Size (in x ft)	Size (mm x m)
08032026	5/8 x 5	16 x 1.5
08032022	5/8 x 10	16 x 3



Replacement Hand Rod End Fittings and Accessories

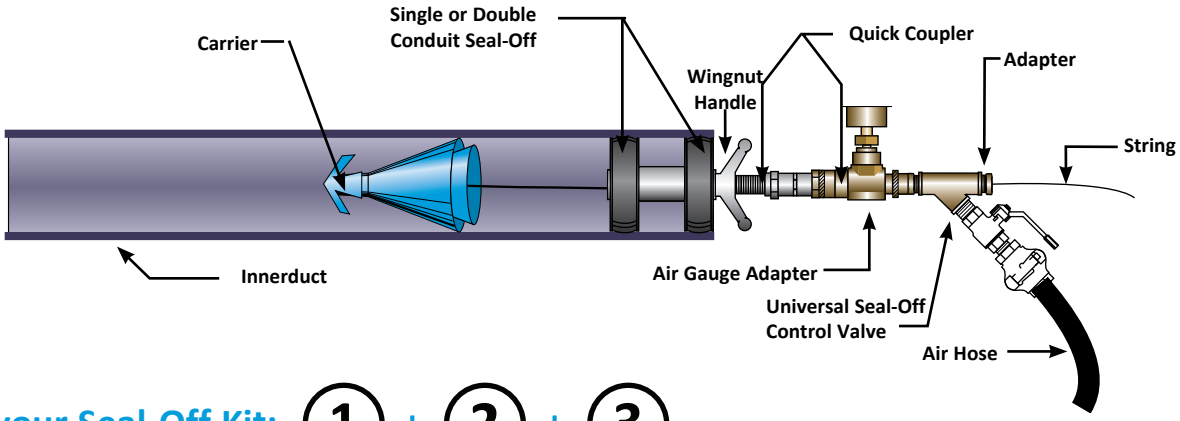
Part Number	Size/Type in (mm)
08036157	3/4"-10 male end for 5/8" (16 mm) rod
08036156	3/4"-10 female end for 5/8" (16 mm) rod
08035851	Epoxy Resin, Single Pack
08038300	Tapered Head 3/4"-10 Thread, 0.343" Hole

ORDER CAREFULLY
This item is made-to-order and is not returnable.

LOW PRESSURE SEAL-OFFS

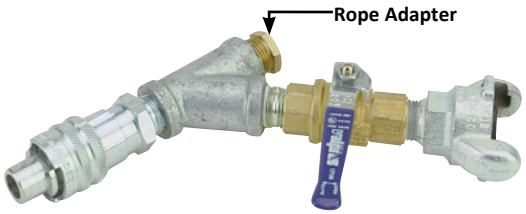
Conduit Seal-Offs

Conduit Seal-Offs utilize compressed air (up to 15 psi) to force Line Carriers, Cable Chutes or other projectiles (see page 16-17) thru the duct system while dragging a pull string or pull tape (page 21). Once the tape or string is installed, pulling rope or steel cable can be pulled back. In the case of small conductors or fiber cables, it's possible that the string or tape will handle the job. For your compressor needs, see page 100.



Create your Seal-Off Kit: 1 + 2 + 3

! **15 PSI MAX PRESSURE**



1 Universal Seal-Off Control Valve

The Seal-Off Control Valve Body combines with an Innerduct Seal-Off, Single Conduit Seal-Off or Double Conduit Seal-Off and recommended Air Gauge Adapter to form a complete Seal-Off Assembly. The interchangeable attachments provide flexibility by allowing the purchase of a single valve body that can be used in a variety of applications depending on conduit size. The Seal-Off Control Valve Body comes standard with an air valve to regulate flow, a standard claw type air fitting and a 3⁄16" (5 mm) Rope Adapter.

Part Number	Description
08032165	Seal-Off control valve body



2 Individual Innerduct Seal-Offs

The Innerduct Seal-Offs fit the Seal-Off Control Body and thread into Innerduct. See available sizes below.

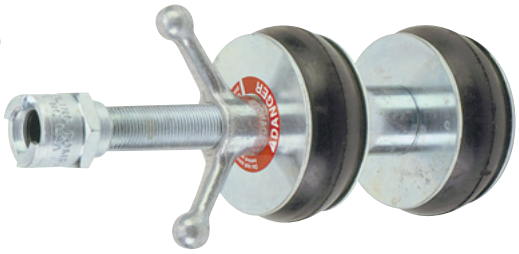
Part Number	Description	Nominal Duct Size (in)	Innerduct I.D. Range (in)	Innerduct I.D. Range (mm)
08034321	3⁄4" Innerduct Seal-Off	3⁄4	.72–.94	19–24
08034315	1" Innerduct Seal-Off	1	.93–1.19	24–30
08034316	1 1⁄4" Innerduct Seal-Off	1 1⁄4	1.18–1.44	30–37
08034317	1 1⁄2" Innerduct Seal-Off	1 1⁄2	1.31–1.69	33–43
08034318	2" Innerduct Seal-Off	2	1.93–2.31	49–59
08032999	Case, Innerduct Seal Off (Holds 4 Seal-Offs)			

Individual Double Seal-Offs

The Conduit Seal-Offs fit the Seal-Off Control Body and accommodate larger pipes. See available sizes below.

Part Number	Description	Nominal Duct Size (in)	Duct I.D. Range (in)	(mm)
08032940	2" Double Seal-Off	2	1.93–2.36	49–60
08032945	2½" Double Seal-Off	2½	2.40–2.76	61–70
08032950	3" Double Seal-Off	3	2.87–3.31	73–84
08032955	3½" Double Seal-Off	3½	3.50–3.75	89–95
08032960	4" Double Seal-Off	4	3.54–4.25	90–108
08032965	5" Double Seal-Off	5	4.72–5.37	120–136
08032970	6" Double Seal-Off	6	5.50–6.29	140–160
08032975	8" Double Seal-Off	8	7.83–8.27	199–210
08032997	Case, Conduit Seal Off Double (Holds 5 Seal-Offs)			

2



! **15 PSI MAX PRESSURE**

Air Gauge Adapter

The Air Gauge Adapter allows the monitoring of pressures reached when using a Seal-Off Assembly. While optional, it's highly recommended to avoid exceeding the 15 PSI maximum.

Part Number	Description
08032175	Air Gauge Adapter

3



Rope Adapter Kit

The interchangeable Rope Adapters for the Seal-Off Control Body allow larger strings and tapes to be utilized while minimizing back pressure air loss. Individual adapters are available in 3⁄16" (5 mm), 1⁄4" (6 mm) and 3⁄8" (10 mm) or they can be purchased as a kit – one of each.

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



Replacement Seals for Conduit Seal-Offs

The rubber seals on single and double Conduit Seal-Offs should be replaced when they no longer grip properly or in cases of significant air loss.

Part Number	Nominal Duct Size (in)
08082121	2
08082126	2½
08082131	3
08082136	3½
08082141	4
08082151	5
08082161	6



Replacement Handle for Single & Double Seal-Offs

The Replacement Handle allows the repair of Seal-Offs where the wing nut has broken or is missing. The handle fits both Single and Double Seal-Offs.

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



POWER DART® BLOWER



Power Dart® Blower

The Power Dart Blower provides a method to install Pull String or Pull Tape into longer duct runs without the need for an air compressor. Utilizing three independent, high volume blower motors, this unit delivers 300 CFM (8.5 m3/min) @ 3 PSI (.2 Bar) – more than enough to blow 1/2" (12.7 mm) pull string or pull tape 2000' (610 m) into conduit up to 6" (152 mm) in diameter. By running one, two or all three motors, the operator can regulate the speed of the installation. The Condux® Power Dart® Blower weighs only 31 lbs (14 kg) making it a breeze to carry from install to install.

*Requires 110V/220V AC Power or 3,000 Watt Generator. Comes w/30 Amp Twist Plug Installed.

Base Part No.	Description
08030003	**110V Power Dart Blower** (Includes: 110V Power Dart Blower Unit, Hose, Seal-Off Handle & Seal-Offs for ½" - 6" (13 mm-152 mm) conduit **Carriers not included.**
08030004	**220V/240V Power Dart Blower** (Includes: 220V/240V Power Dart Blower Unit, Hose, Seal-Off Handle & Seal-Offs for ½" - 6" (13 mm-152 mm) conduit **Carriers not included.**
08030060	**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.
08030011	**Power Dart Blower Carrier Kit**

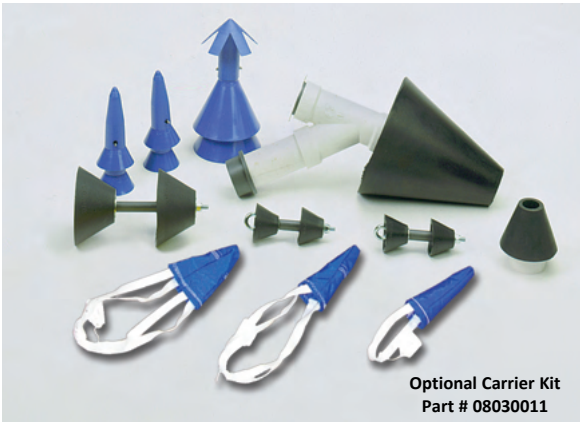
Qty	Part Number	Description
(2)	08067900	2" (51 mm) Line Carrier
(1)	08030300	4" (102 mm) Line Carrier
(2)	08031820	2" (51 mm) Duct Projectile
(1)	08031840	4" (102 mm) Duct Projectile
(1)	08033532	Carrier, Chute 2" (51 mm) Nylon
(1)	08033548	Carrier, Chute 3" (76 mm) Nylon
(1)	08033564	Carrier, Chute 4" (102 mm) Nylon
(1)	08039400	Seal-Off Body Handle
(1)	08066800	Power Dart Seal-Off 1½"– 2½" (38–64 mm)
(1)	08039500	Power Dart Seal-Off 2½"– 6" (64–152 mm)



Power Dart Blower
Part # 08030003



Accessory Bag
Part # 08030060



Optional Carrier Kit
Part # 08030011

Replacement Accessories

Power Dart Blower Seal-Off

Part Number	Duct Size (in)	(mm)
08039700*	½–1¼	13–32
08066800	1½–2½	38–64
08039500	2½–6	64–152

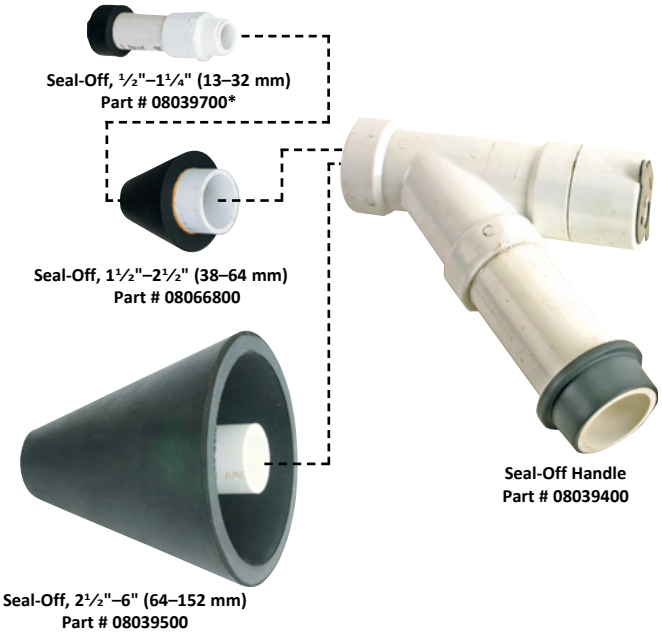
*Requires Part Number 08066800

Power Dart Blower Seal-Off Handle

Part Number	Duct Size (in)	(mm)
08039400	½–6	13–152

Power Dart Blower Hose

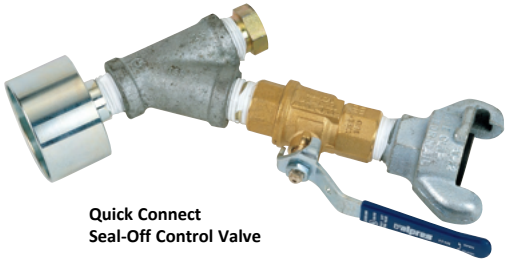
Part Number	Description
08039300	25' (7.6 m) x 2½" (64 mm) heavy duty hose
08039301	Replacement hose end fitting
08039302	Outlet Fitting on the power dart blower box

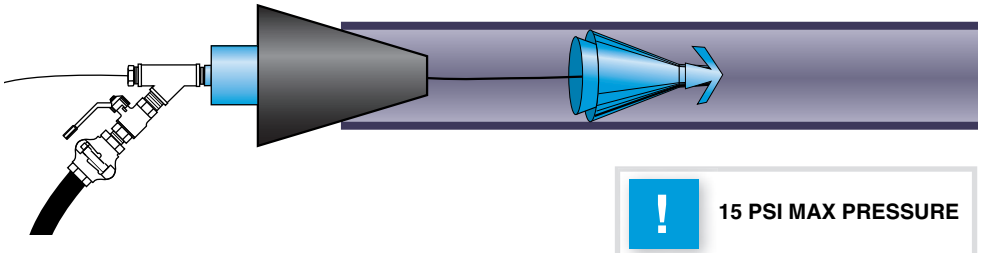


Quick Connect Seal-Off Control Valve

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. A 3⁄16" (5 mm) rope adapter included. See page 13 for additional rope adapter sizes.

Part Number	Description
08032185	Quick connect seal-off control valve





! 15 PSI MAX PRESSURE

CONDUIT CARRIERS



Foam Carriers

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

Part Number	Duct Size (in)	Max O.D. (in)	(mm)
08078200	½	.50	13
08078300	¾	.75	19
08032200	1	1.00	25
08032300	1¼	1.25	32
08039800	1½	1.50	38
08032400	2	2.00	51
08078400	2½	2.50	64
08032500	3	3.00	76
08032600	4	4.00	102
08059100	5	5.00	127
08059200	6	6.00	152



08067900 only

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 (in)	Max O.D. (in)	(mm)
08067900	2	2.06	52
08030100	3	3.06	78
08030300	4	4.06	103
08030400	5	5.06	129
08030500	6	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, tie a line 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 nylon fabric and attention to detail. All products are hand made and go through a series of quality checks prior to being shipped out.

Cable Chute Advantages

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







Part Number	Description	(mm)
08033512	Carrier, Chute 0.75 Nylon	19
08033516	Carrier, Chute 1.00 Nylon	25
08033520	Carrier, Chute 1.25 Nylon	32
08033524	Carrier, Chute 1.50 Nylon	38
08033532	Carrier, Chute 2.00 Nylon	51
08033548	Carrier, Chute 3.00 Nylon	76
08033564	Carrier, Chute 4.00 Nylon	102
08033580	Carrier, Chute 5.00 Nylon	127
08033596	Carrier, Chute 6.00 Nylon	152
08033648	Carrier, Chute 3.00 Nylon w/Spring	76
08033664	Carrier, Chute 4.00 Nylon w/Spring	102
08033680	Carrier, Chute 5.00 Nylon w/Spring	127
08033696	Carrier, Chute 6.00 Nylon w/Spring	152

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 (in)	Max O.D. (in)	(mm)
08031812	1¼	1.25	32
08031814	1⅜	1.37	35
08031815	1½	1.50	38
08031816	1⅝	1.62	41
08031820	2	2.00	51
08031825	2½	2.50	64
08031830	3	3.00	76
08031840	4	4.00	102
08031850	5	5.00	127
08031860	6	6.00	152
08031880	8	8.00	203



Replacement Cones For Duct Projectile

Original equipment replacement cones.

Part Number	Duct Size (in)	Max O.D. (in)	(mm)
08031805	1¼	1.25	32
08031803	1⅜	1.38	35
08031806	1½	1.50	38
08031804	1⅝	1.63	41
08031819	2	2.00	51
08031826	2½	2.50	64
08031831	3	3.00	76
08031841	4	4.00	102
08031851	5	5.00	127
08031861	6	6.00	152
08031881	8	8.00	203



WINCH LINE BLOWER

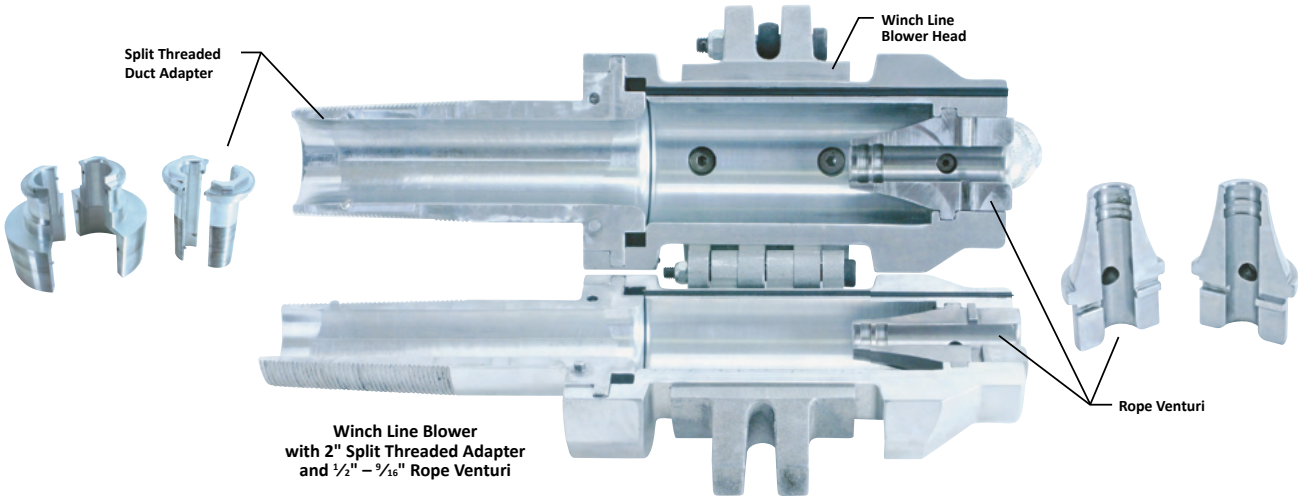


The Condux Winch Line Blower

The Condux Winch Line Blower is a tool for installing winch line, rope or pull tape into conduit. It turns the job of placing winch line into one easy step, eliminating the need to blow a string and pull back a rope.

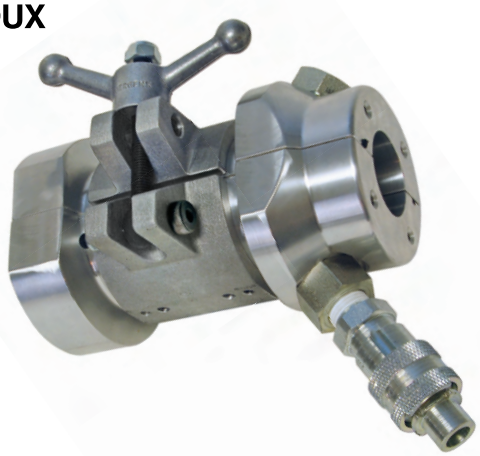
Using compressed air, 90 psi (6.2 bar) and 100 cfm (2.8 cmm), the winch line blower can propel steel winch line, rope or tape in conduit from 1" to 6" in diameter.

Installation is easy. No special tools are required.



Winch Line Blower with 2" Split Threaded Adapter and ½" – 9⁄16" Rope Venturi

Split Threaded Adapter Part No.	Duct Size (in)	(Duct I.D. Range)	Rope Venturi			Conduit Carrier
			1⁄4" - 3⁄8" (6 mm - 10 mm)	1⁄2" - 9⁄16" (12.7 mm - 14 mm)	7⁄8" (22 mm)	
08201108	.75	0.83" - .93" (21 mm - 24 mm)	08201089	08201086	08201090	Call Factory
08201110	1	0.90" - 1.13" (23 mm - 29 mm)	08201089	08201086	08201090	Call Factory
08201112	1.25	1.25" - 1.40" (32 mm - 36 mm)	08201089	08201086	08201090	Call Factory
08201115	1.5	1.40" - 1.65" (36 mm - 42 mm)	08201089	08201086	08201090	Call Factory
08201020	2	1.91" - 2.10" (49 mm - 53 mm)	08201089	08201086	08201090	08202020
08201025	2.5	2.29" - 2.47" (58 mm - 63 mm)	08201089	08201086	08201090	08202520
08201030	3	2.83" - 3.10" (72 mm - 78 mm)	08201089	08201086	08201090	08202920
08201035	3.5	3.25" - 3.60" (83 mm - 91 mm)	08201089	08201086	08201090	08203020
08201041	4	3.80" -4.06" (97 mm - 103 mm)	08201089	08201086	08201090	08203920
08201045	4.5	4.20" - 4.70" (107 mm - 119 mm)	08201089	08201086	08201090	08204020
08201051	5	4.71" - 5.08" (120 mm - 129 mm)	08201089	08201086	08201090	08204920
08201061	6	5.61" - 6.10" (142 mm - 155 mm)	08201089	08201086	08201090	08205920



WINCH LINE & ROPE INSTALLATION



Attach winch line or rope to carrier.



Install carrier into duct.



Close adapter around the winch line or rope. Install into duct.



Install Winch Line Body and tighten the clamp.

PULLING TAPE INSTALLATION AS AN OVERLAY



Change the Rope Plug on the Winchline Body to the Rope Adapter.



Thread pulling tape through the Rope Adapter.



Attach cable chute line carrier to Pull Tape.



Install cable chute line carrier into duct.



Close adapter around the pulling tape and existing cable. Install into duct.



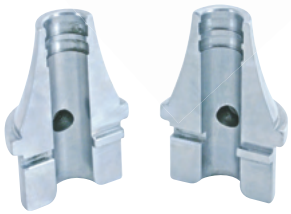
Attach body to the adapter. Close and tighten, running existing cable out of the back.

WINCH LINE BLOWER



Winch Line Body

Part No.	Description
08201080	Winch Line Body Assembly 2" - 6" (body includes 1/2" - 9/16" venturi set)



Venturis

Part No.	Description
08201089	Venturi, Winch Line 1/4" - 3/8" set
08201086*	Venturi, Winch Line 1/2" - 9/16" set
08201090	Venturi, Winch Line 7/8" set

* Comes standard with Winch Line Body



Plug

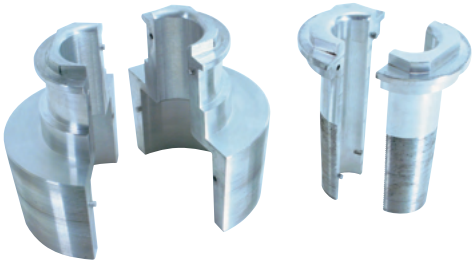
Part No.	Description
08781170	Venturi Air Plug

(Used to seal off back of Winch Line Blower to blow in pull tape or pea line)



Hose & Valve

Part No.	Description
08201015	Hose Valve Assembly



Adapters

Part No.	Description
08201108	Winch Line Duct Adapter .75"
08201110	Winch Line Duct Adapter 1"
08201112	Winch Line Duct Adapter 1.25"
08201115	Winch Line Duct Adapter 1.5"
08201020	Winch Line Duct Adapter 2"
08201025	Winch Line Duct Adapter 2.5"
08201030	Winch Line Duct Adapter 3"
08201035	Winch Line Duct Adapter 3.5"
08201041	Winch Line Duct Adapter 4"
08201045	Winch Line Duct Adapter 4.5"
08201051	Winch Line Duct Adapter 5"
08201061	Winch Line Duct Adapter 6"

! **Not for use in steel conduit.**

See ranges on page 18.

Carriers

Part Number	Description	Carrier OD
08202020	Carrier, Winch Line 2" SCH40&80, TC6	2.05" (53 mm)
08202520	Carrier, Winch Line 2.5" SCH40&80	2.50" (64 mm)
08202920	Carrier, Winch Line 3" SCH 40&80	3.13" (80 mm)
08203020	Carrier, Winch Line 3" SCH40, TC6&8	3.50" (89 mm)
08203420	Carrier, Winch Line 3.5" SCH 40&80	3.75" (95 mm)
08203520	Carrier, Winch Line 3.5" TC6&8	4.00" (102 mm)
08203920	Carrier, Winch Line 4" SCH40&80, TEL	4.25" (108 mm)
08204020	Carrier, Winch Line 4" SCH40,TEL	4.50" (114 mm)
08204920	Carrier, Winch Line 5" SCH 40&80	5.25" (133 mm)
08205020	Carrier, Winch Line 5" SCH40, TC6&8	5.50" (140 mm)
08205920	Carrier, Winch Line 6" SCH 40&80	6.25" (159 mm)
08206020	Carrier, Winch Line 6" SCH40, TC6&8	6.50" (165 mm)

Alternate carrier options available on pages 16-17. See: Line Carriers, Cable Chute Line Carriers and Duct Projectiles.



! **Not for use in steel conduit.**

Rope Adapter

Rope Adapter
08201091



Storage Case

Storage Case
08201093





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

*Pallet quantities of 80 available.

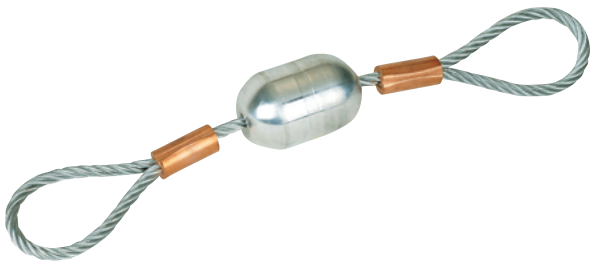
Polyester Woven Pre-Lubed Tape

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 (lbs)	Break Strength (N)	Approx Width (in)	Approx Width (mm)	Length (ft)	Length (m)
08075003	1,250	5,560	1/2	13	3,000	915
08075103	1,800	8,006	5/8	16	3,000	915
08096303	2,500	11,120	3/4	19	3,000	915



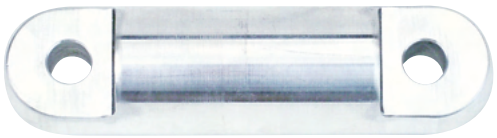
MANDRELS



Aluminum Test Mandrels

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

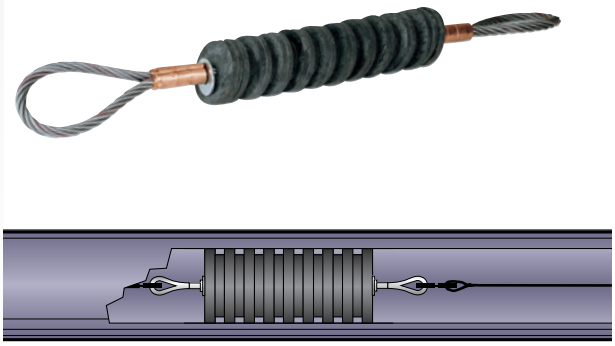
Part Number	Duct Size (in)	Body Length (in)	Body Length (mm)	Max O.D. (in)	Max O.D. (mm)	Load Capacity (lbs)	Load Capacity (N)
08059515	1½	1.74	44	1.18	30	2,200	9,786
08059520	2	2.40	61	1.58	40	2,200	9,786
08059525	2½	2.98	76	1.95	50	2,200	9,786
08059530	3	3.54	90	2.33	59	2,200	9,786
08059535	3½	4.10	104	2.70	69	4,500	20,016
08059540	4	4.84	123	3.20	81	4,500	20,016
08059550	5	5.98	152	3.95	100	4,500	20,016
08059560	6	7.08	180	4.70	119	4,500	20,016
08059580	8	9.44	240	6.38	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 (in)	Body Length (in)	Body Length (mm)	Max O.D. (in)	Max O.D. (mm)	Load Capacity (lbs)	Load Capacity (N)
08059005	1	1.71	43	0.860	22	2,200	9,786
08059015	1¼	2.17	55	1.086	28	2,200	9,786
08059025	1½	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 (in)	Body Length (in)	Body Length (mm)	Max O.D. (in)	Max O.D. (mm)
08028820*	2	10	254	2.00	51
08028830	3	10	254	3.00	76
08028700	3½	10	254	3.50	89
08028800	4	10	254	4.00	102
08058700	5	10	254	5.00	127
08058800	6	10	254	6.00	152
08022880	8	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 (in)	Body Length (in)	Body Length (mm)	Max O.D. (in)	Max O.D. (mm)
08082020	2	3.25	83	2.00	51
08082025	2½	3.25	83	2.50	64
08082030	3	3.25	83	3.00	76
08082035	3½	3.25	83	3.50	89
08082040	4	3.25	83	4.00	102
08082050	5	3.25	83	5.00	127
08082060	6	3.25	83	6.00	154
08082080	8	3.25	83	8.00	203



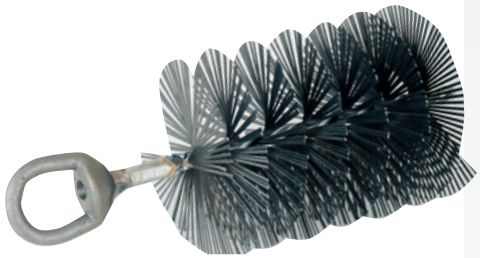
Wire Brush Mandrel

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.



08028904 & 08028905

Part Number	Duct Size (in)	Body Length (in)	Body Length (mm)	Overall Length (in)	Overall Length (mm)	Max O.D. (in)	Max O.D. (mm)
08028904	1¼	4.25	108	7.50	191	1.00	25
08028905	1½	4.25	108	7.50	191	1.25	32
08028900	2	4.25	108	9.16	232	1.75	44
08046000	2½	4.25	108	9.16	232	2.25	57
08067100	3	5.50	140	9.16	232	2.75	70
08067200	3½	5.00	127	9.16	232	3.25	82
08029000	4	6.75	171	9.16	232	3.75	95
08029100	5	6.50	165	9.16	232	4.75	121
08068100	6	6.75	171	9.16	232	5.75	146
08029080	8	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 (in)	Body Length (in)	Body Length (mm)	Max O.D. (in)	Max O.D. (mm)	Load (lbs)	Load (N)
08900546	2	3.5	89	1.75	44	1,240	5,516
08900547	2½	4.25	108	2.25	57	1,240	5,516
08900548	3	5.25	133	2.75	70	1,240	5,516
08900549	3½	5.25	133	3.25	82	2,240	9,964
08900550	4	5.25	133	3.75	95	2,240	9,964
08900551	5	5.00	123	4.75	121	2,240	9,964
08900552	6	5.00	123	5.75	146	2,240	9,964
08900553	8	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.

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

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

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



BALL BEARING SWIVELS



808 Champion Swivels

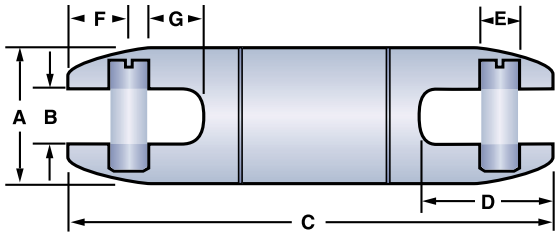
Designed specifically for underground and overhead cable pulling applications. Can handle all types of utility cables. Precision machined from high-strength stainless steel. Clevis pin is easily replaceable (see ordering information below).

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.

! Not designed to be pulled around bullwheels or sheaves.



	WORKING LOAD				DIMENSIONS													
	*Underground		** Aerial		A		B		C		D		E		F		G	
Part Number	(LBS.)	(N)	(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	.80	20	.16	4	.37	9	.34	9
08016000	2,500	11,120	1,500	6,672	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
08016000H***	2,500	11,120	1,500	6,672	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
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	.57	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	.57	14
08080913	7,000	31,137	4,200	18,682	1-3/8	35	.56	14	5.25	133	1.31	33	.43	11	.56	14	.54	14
08080913H***	7,000	31,137	4,200	18,682	1-3/8	35	.56	14	5.25	133	1.31	33	.43	11	.56	14	.54	14
08080916	10,000	44,482	6,000	26,689	1-5/8	41	.63	16	6.51	165	1.59	40	.56	14	.78	20	.54	14
08080916H***	10,000	44,482	6,000	26,689	1-5/8	41	.63	16	6.51	165	1.59	40	.56	14	.78	20	.54	14
08080920	15,000	66,723	9,000	40,033	2	51	.75	19	6.99	178	1.78	45	.62	16	.72	18	.75	19
08080920H***	15,000	66,723	9,000	40,033	2	51	.75	19	6.99	178	1.78	45	.62	16	.72	18	.75	19
08080925	25,000	111,205	15,000	66,723	2-1/2	64	1.00	25	10.20	259	2.80	71	.87	22	1.23	31	1.13	29
08080925H***	25,000	111,205	15,000	66,723	2-1/2	64	1.00	25	10.20	259	2.80	71	.87	22	1.23	31	1.13	29
08080930	30,000	133,446	18,000	80,068	3	76	1.31	33	12.04	306	3.56	90	1.12	28	1.38	35	1.60	41

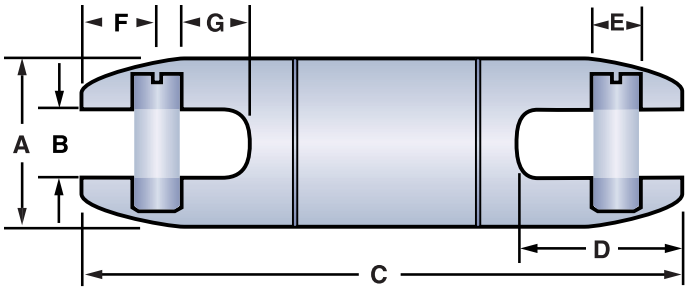
* 3:1 Safety Factor
** 5:1 Safety Factor
*** Comes standard with hex head clevis pin

Replacement Clevis Pins for 808 Champion Swivels

Part Number	Replacement Part Number, Slotted Pin	Part Number	Replacement Part Number, Hex Pin
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).





! **Not designed to be pulled around bullwheels or sheaves.**

	WORKING LOAD				DIMENSIONS													
	*Underground		** Aerial		A		B		C		D		E		F		G	
Part Number	(LBS.)	(N)	(LBS.)	(N)	(IN.)	MM	(IN.)	MM	(IN.)	MM	(IN.)	MM	(IN.)	MM	(IN.)	MM	(IN.)	MM
08210007	1800	8006	1080	4804	0.875	22	0.31	8	3.09	78	0.84	21	0.31	8	0.38	10	0.31	8
08210012	4000	17792	2400	10675	1.25	32	0.59	15	4.52	115	1.22	31	0.37	9	0.44	11	0.60	15
08210014	7500	33360	4500	20016	1.44	37	0.59	15	5.47	139	1.41	36	0.43	11	0.59	15	0.60	15
08210018	10000	44480	6000	26689	1.88	48	0.75	19	7.07	179	1.86	47	0.62	16	0.80	20	0.76	19

* 3:1 Safety Factor
**5:1 Safety Factor

Replacement Clevis Pins for 821 Champion Swivels

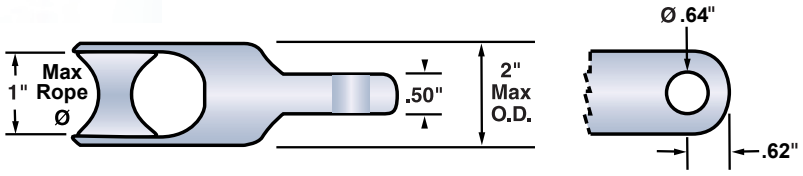
Part Number	Replacement Part Number, Slotted Pin
08210007	08210105
08210012	08210115
08210014	08210125
08210018	08210135

SWIVEL ACCESSORIES



Rope to Swivel Clevis Tang

Used to connect the swivel to rope up to 1" (25 mm) in diameter. To be used with 1¼"(32 mm), 1⅜" (35 mm), 1⅝" (41 mm) & 2" (51 mm) 808 Champion Swivels. Precision machined stainless steel.



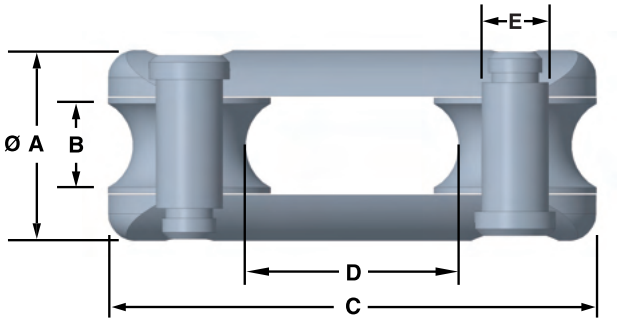
	Swivel Size		Max O.D.		Load Rating		Replacement Roller	Replacement Pin
Part Number	(in)	(mm)	(in)	(mm)	(lbs)	(N)	Part Number	Part Number
08091230	1¼-2	32-51	2	51	10,000	44,480	08091221	08091222



Rope to Rope/Grip Clevis

Versatile clevis provides efficient link for several applications. Stainless steel construction. Combinations of sheaves and pins allow the following connections:

- Rope to rope
- Rope to forged eye pulling grip
- Forged eye pulling grip to forged eye pulling grip
- Rope to flexible eye pulling grip



	FOR MAX ROPE Ø		DIMENSIONS										Replacement Roller	Replacement Pin	Load Capacity	
			A		B		C		D		E					
Part Number	(IN.)	MM	(IN.)	MM	(IN.)	MM	(IN.)	MM	(IN.)	MM	(IN.)	MM	Part Number	Part Number	(lbs)	(N)
08091200	7/8	22	1.75	44	0.91	23	4.50	114	1.96	50	0.62	16	08091202	08091201	10,000	44,482

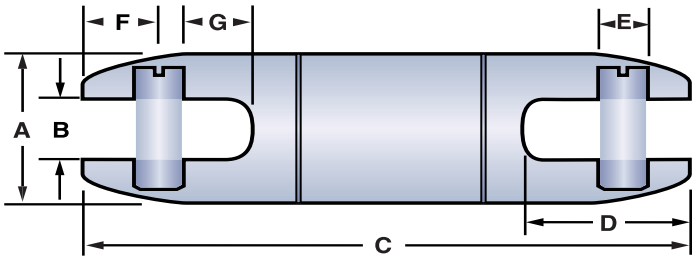
			SWIVEL COMPATIBILITY CHART				
			Pulling Eye Size Range			Pulling Harnesses	
Part Number	Swivel Size (in)	(mm)	Standard Head Reusable Power Pulling Eyes Cable Size	Fixed Head Innerduct Pulling Eyes (Part Number)	Eye to Eye Connectors Size (Part Number)	Separate Leg Ends	Large Front Link Size (Part Number)
08017000	5/8	16	-	-	-	1/8", 1/4"	-
08016000	7/8	22	-	-	-	1/8", 1/4"	-
08080912	1-1/4	32	1/0 AWG - 250 kcmil	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	1/0 AWG - 250 kcmil	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	-	-	(3/8") 08050300 (1/2") 08050500	All	(1/8"-08549200) (1/4"-08549230, 08549325, 08569910, 08549326) (1/2"-08549331)
08080920	2	51	350 kcmil - 1,000 kcmil	-	All	All	(1/8"-08549200) (1/4"-08549230, 08549325, 08569910, 08549326) (1/2"-08549331)
08080925	2-1/2	64	1250 kcmil - 3,000 kcmil	-	(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	1/0 AWG - 250 kcmil	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	1/0 AWG - 250 kcmil	All	(3/8") 08050300 (1/2") 08050500	All	(1/8"-08549200) (1/4"-08549230, 08549325, 08569910, 08549326) (1/2"-08549331)
08210018	1-7/8	48	350 kcmil - 1,000 kcmil	-	All	All	(1/8"-08549200) (1/4"-08549230, 08549325, 08569910, 08549326) (3/8"-08549333, 08549329) (1/2"-08549331)

BREAK-AWAY SWIVELS



Break-Away Swivels

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 ±5% 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).



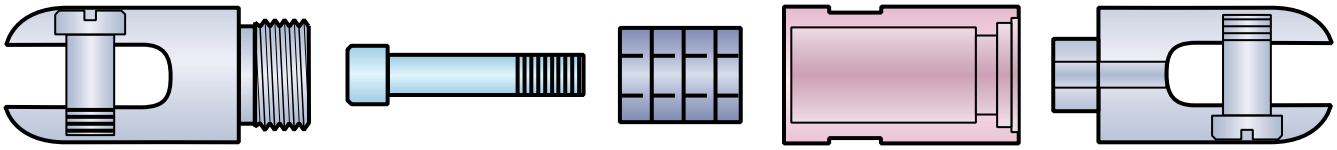
NOTE: Swivels are not designed to run around bullwheels.

! **The 10% break tolerance zone for pins used in 5/8" (16 mm) and 7/8" (22 mm) diameter break- away swivels is + / - 5% of the nominal break load, called out along with the swivel diameter, in the description of the pin.**

		Break Load		DIMENSIONS													
				A		B		C		D		E		F		G	
	Part Number	(LBS.)	(N)	(IN.)	MM	(IN.)	MM	(IN.)	MM	(IN.)	MM	(IN.)	MM	(IN.)	MM	(IN.)	MM
5/8 Swivels	08017300	200	890	5/8	16	.28	7	3.56	90	.80	20	.16	4	.37	9	.34	9
	08017400	250	1,112	5/8	16	.28	7	3.56	90	.80	20	.16	4	.37	9	.34	9
	08016900	450	2,002	5/8	16	.28	7	3.56	90	.80	20	.16	4	.37	9	.34	9
	08017200	600	2,669	5/8	16	.28	7	3.56	90	.80	20	.16	4	.37	9	.34	9
	08017500	650	2,891	5/8	16	.28	7	3.56	90	.80	20	.16	4	.37	9	.34	9
	08017900	750	3,336	5/8	16	.28	7	3.56	90	.80	20	.16	4	.37	9	.34	9
7/8 Swivels	08018100	150	667	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08018300	200	890	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08018000	250	1,112	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08017600	300	1,334	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08018400	350	1,557	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08075300	400	1,779	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08015800	450	2,002	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08076500	500	2,224	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08018500	550	2,446	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08015000	600	2,669	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08018600	650	2,891	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08076000	700	3,114	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08075500	750	3,336	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08018700	800	3,558	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08018800	850	3,781	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08076600	900	4,003	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08015700	1,000	4,448	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08018900	1,100	4,893	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08015200	1,200	5,338	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08019100	1,300	5,782	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08074600	1,400	6,227	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08076900	1,500	6,672	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08019200	1,600	7,117	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08019300	1,700	7,562	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9
	08017700	1,800	8,006	7/8	22	.38	10	4.41	112	1.03	26	.31	8	.53	13	.35	9

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

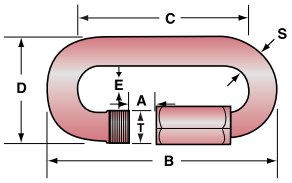
	Part Number	Break Load (LBS.)	Break Load (N)	Pin Color
5/8 Swivels	08017306	200	890	Green/ Black
	08017406	250	1,112	Blue/White
	08016905	450	2,002	Blue/Yellow
	08017205	600	2,669	Orange/Black
	08017505	650	2,891	Brown/White
	08017905	750	3,336	Orange/Violet
7/8 Swivels	08018106	150	667	White
	08018306	200	890	Green
	08018006	250	1,112	Blue
	08017606	300	1,334	Brown
	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	3,558	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 ACCESSORIES

Threaded Chain Connectors

Offers 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.





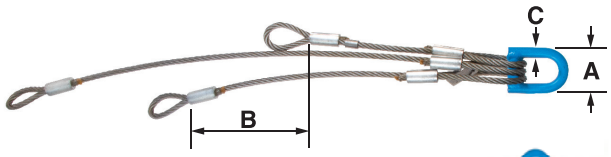
	Working Load Limit		Stock Diameter (S)		Threaded Shaft (T)		Opening Width (A)		Length (B)		Inside Length (C)		Width (D)		Inside Width (E)	
Part Number	(LBS.)	(N)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)
08581212	200	890	0.125	3.2	0.20	5	0.375	9.5	1.813	46.0	1.563	40	0.79	20	.37	9.4
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	.54	13.7
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	.52	13.2
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	.69	17.5
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	.74	18.8
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	.89	22.6

THREADED CHAIN CONNECTOR COMPATIBILITY CHART

Chain Connector Part Number	Size (in)	Size (mm)	Pulling Eye Size Range		Pulling Harnesses	
			Standard Head Reusable Power Pulling Eyes Cable Size	Fixed Head Innerduct Pulling Eyes	Separate Leg Ends	Large Front Link Size
08581212	1/8	3	-	-	1/8", 1/4"	-
08581218	3/16	5	1/0 - 500 kcmil	All	1/8", 1/4", 3/8"	1/8" (3 mm)
08581225	1/4	6	1/0 - 500 kcmil	All	1/8", 1/4", 3/8"	1/8" (3 mm)
08581231	5/16	8	600 kcmil - 1000 kcmil	All	All Cable	1/8" (3 mm), 3 x 1/4" (6 mm), 2 x 1/2" (13 mm), Chain
08581237	3/8	10	-	All	All Cable	1/8" (3 mm), 3 & 4 x 3/8" (10 mm), 2 x 1/2" (13 mm), Chain
08581250	1/2	13	1,250 kcmil - 2,000 kcmil	-	All	All

Multiple Pulling Harness

Allows staggered attachment to cable or innerduct when pulling through conduit systems or during directional drilling pull-back operations. Note: 10 & 12 Way 3/8" (10 mm) harnesses only have a single stagger. All other harnesses are sequentially staggered.



3 Way ½" Cable



4 Way ⅜" Cable

		Working Load Per Leg		Working Load Combined		Max Width (A)		Separation Between Legs (B)		Lead Ring Diameter (C)	
Part Number	Description	(LBS.)	(N)	(LBS)	(N)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)
08549200	3 Way 1/8" (3 mm) Cable	660	2,936	1,800	8,009	2.25	57	14	356	.37	9
08549230	3 Way 1/4" (6 mm) Cable	1,170	5,204	3,000	13,345	1.63	41	14	356	.37	9
08549325	4 Way 1/4" (6 mm) Cable	1,170	5,204	3,000	13,345	1.63	41	14	356	.37	9
08569910	5 Way 1/4" (6 mm) Cable	1,170	5,204	3,000	13,345	1.63	41	14	356	.37	9
08549326	6 Way 1/4" (6 mm) Cable	1,170	5,204	3,000	13,345	1.63	41	14	356	.37	9
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	2,400	10,676	6,000	26,689	4.50	114	6	152	.75	19
08549334	12 Way 3/8" (10 mm) Cable	2,400	10,676	6,000	26,689	4.50	114	6	152	.75	19
08549331	2 Way 1/2" (13 mm) Cable	8,000	35,586	8,000	35,586	2.50	64	12	305	.50	13
08549332	3 Way 1/2" (13 mm) Cable	8,000	35,586	15,000	66,720	3.75	95	12	305	.87	22
08549340	4 Way 1/2" (13 mm) Cable	8,000	35,586	15,000	66,720	3.75	95	12	305	.87	22

! See Swivel Compatibility Chart on page 27 to match up your multiple pulling harness with your swivels.

Multiple Pulling Harness for Micro Duct Installation

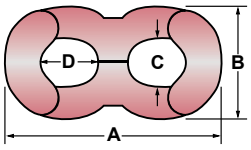
Six leg harness with swivel and 3-inch separation between legs for installing micro duct into existing innerduct.



Part Number	Description	Load Rating
08549350	Multiple Pulling Harnes	550 lbs (2,446 N)

Figure 8 Swing Links

For quick connections to winch line or pulling harnesses.
Note: To be used for cable stringing or pulling only.





	Size		Working Load		Length (A)		Width (B)		Eye ID (C)		Eye ID (D)	
Part Number	(IN)	(MM)	(LBS)	(N)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)
08580837	3/8	10	1,700	7,561	2.90	74	1.31	33	.50	13	.63	16
08580850	1/2	13	6,000	26,689	3.25	83	1.63	41	.69	18	.75	19
08580875	3/4"	19	10,000	44,482	5.00	127	2.50	64	.94	24	1.13	29
08580899	1	25	22,000	97,860	6.50	165	3.25	83	1.25	32	1.50	38

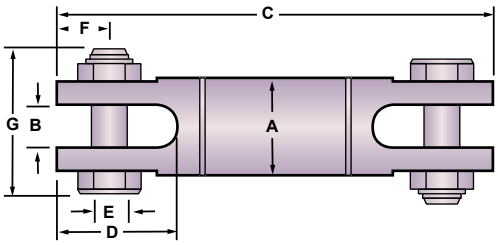
SWING LINK COMPATIBILITY CHART

Swing Link Part Number	Size (in)	Size (mm)	Pulling Eye Size Range	Pulling Harnesses	
			Standard Head Reusable Power Pulling Eyes Cable Size	Separate Leg Ends	Large Front Link Size
08580837	3/8	10	1/0 AWG - 250 kcmil	1/8" (3 mm), 1/4" (6 mm), 3/8" (10 mm), Chain	-
08580850	1/2	13	350 kcmil - 1,000 kcmil	All Cable	2 x 1/2" (13 mm)
08580875	3/4	19	1250 kcmil - 2000 kcmil	All Cable	1/8" (3 mm), 1/4" (6 mm), 3/8" (10 mm), 2 x 1/2" (13 mm), Chain
08580899	1	25	-	All Cable	All

DIRECTIONAL DRILLING SWIVELS

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. Condux Directional Drilling Swivels feature a 90 day warranty.

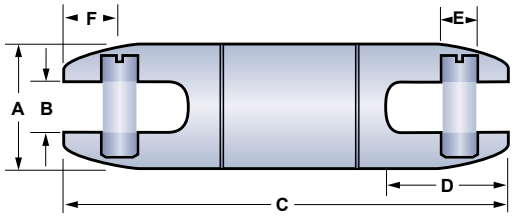
CAUTION: To be used for directional drilling only.

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 greased after each use to purge any contaminants that may have penetrated past the seals into the swivel while boring. See page 33 for calcium based lubricants.

	Working Load				A		B		C		D		E		F		G	
	Tension		Compression															
Part Number	(LBS)	(N)	(LBS)	(N)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)
08190016	8,500	37,808	2,800	12,454	1-5/8"	41	.63	16	6.86	174	1.59	40	.56	14	.78	20	2.36	60
08190020	10,000	44,480	3,300	14,678	2"	51	.75	19	7.86	200	1.81	46	.63	16	.75	19	2.89	73
08190025	20,000	88,960	6,600	29,357	2-1/2"	64	1.00	25	10.94	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	12.77	324	3.56	90	1.13	29	1.38	35	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	1.88	48	5.58	142
08190045	60,000	266,880	20,000	88,960	4-5/8"	117	1.75	44	17.48	444	4.63	118	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	2.19	56	6.59	167
08190080	120,000	533,760	40,000	177,920	7-3/4"	197	2.25	57	21.72	552	5.25	133	2.00	51	2.50	64	8.25	210

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. Condux Directional Drilling Swivels feature a 90 day warranty.

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 greased after each use to purge any contaminants that may have penetrated past the seals into the swivel while boring.

	Working Load				A		B		C		D		E		F	
	Tension		Compression													
Part Number	(LBS)	(N)	(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	10	4.83	123	1.03	26	.31	8	.53	13
08190412	4,000	14,641	1,300	4,758	1-1/4	32	.56	14	6.57	167	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	20
08190421	10,000	44,480	3,300	14,678	2	51	.75	19	8.68	220	2.00	51	.62	16	.82	21
08190426	20,000	88,960	6,600	29,357	2-1/2	64	1.00	25	11.44	291	2.80	71	.87	22	1.23	31
08190431	30,000	133,440	10,000	44,480	3	76	1.31	33	13.27	337	3.56	90	1.12	28	1.38	35

819 D.Drill® Replacement Parts

Part Number	Clevis Pin	Locking Nut
08190016	08190104	02250500
08190020	08190114	02250600
08190025	08190124	02250700
08190030	08190134	02250800
08190040	08190154	02263000
08190045	08190144	02250900
08190060	08190164	02251000
08190080	08190167	02279000



400 D.Drill® Replacement Parts

Part Number	Clevis Pin
08190408	08081065
08190412	08081042
08190416	21000381
08190421	08190542
08190426	08190547
08190431	08190552



D.Drill® 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 Case)



DIRECTIONAL DRILLING SWIVELS

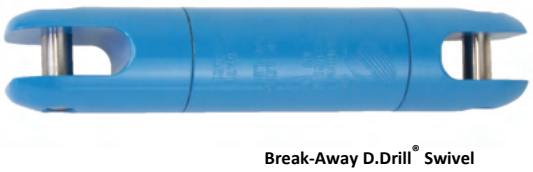
Break-Away Swivels for Directional Drilling

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 40,000 lbs. (111,250 N) and are designed to separate at +8/-2% of their rated break load. Order Replacement Pins as needed.

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

Condux Break-Away DDrill® Swivels are designed for use when directional drilling; however, they may be used in other applications where the swivel, product and pulling medium are segregated from personnel and a break would remain contained (a pipe or bore hole).



Break-Away D.Drill® Swivel
1¼"–1⅝" (32 mm - 41 mm)

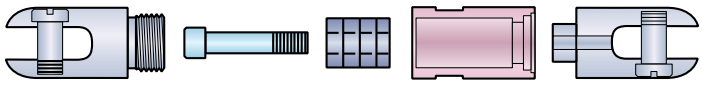


Break-Away D.Drill® Swivel
2"–4" (51 mm - 102 mm)

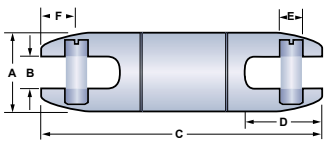
WARNING: Use in any manner other than that described above could result in severe personal injury or death.

	Break Load		Replacement Pin	
Part Number	**(LBS.)**	**(N)**	**Part Number**	**Color**
1-1/4" Swivel (32 mm)				
08021210	1,200	5,338	08021215	Brown/White
08021280	1,500	6,672	08021285	Green/Yellow
08021220	1,900	8,451	08021225	Violet/Black
08021230	2,000	8,896	08021235	Slate/White
08021240	2,500	11,120	08021245	Violet/Green
08021250	3,000	13,344	08021255	Slate/Red
08021260	3,400	15,123	08021265	Blue/Yellow
08021270	4,000	17,792	08021275	Red/Yellow
1-5/8" Swivel (41 mm)				
08021610	4,500	20,017	08021615	Slate/Yellow
08021620	5,000	22,241	08021625	Orange/Blue
08021630	5,500	24,465	08021635	Brown/Green
08021640	6,000	26,689	08021645	Blue/Brown
08021650	6,500	28,913	08021655	Red/Blue
08021660	7,000	31,136	08024505	Orange
08021670	7,500	33,360	08025505	Blue
08021680	8,000	35,584	08027905	Yellow
08021690	8,500	37,808	08028405	Slate

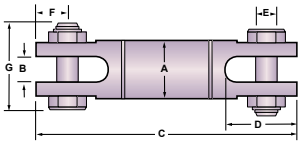
	Break Load		Replacement Pin	
Part Number	**(LBS.)**	**(N)**	**Part Number**	**Color**
2" Swivel (51 mm)				
08029200	9,000	40,032	08029205	Red
08029400	10,000	44,480	08029405	Green
2-1/2" Swivel (64 mm)				
08029600	12,000	53,376	08029605	White
08029700	14,000	62,272	08029705	Brown
3" Swivel (76 mm)				
08075600	18,500	82,288	08029720	Black
08075800	22,000	97,856	08075805	Yellow
08075820	25,000	111,250	08075825	Blue
4" Swivel (102 mm)				
08075940	40,000	177,928	08075945	Orange



Externally Threaded Head | Break Pin | Bearings | Body | Internally Threaded Head



Use these dimensions when ordering the 1¼" (32 mm), and the 1⅝" (41 mm) swivels.



Use these dimensions when ordering the 2" (51 mm), the 2½" (64 mm), the 3" (76 mm), and the 4" (102 mm) swivels.

Break-Away Swivel Dimensions

A		B		C		D		E		F		G	
(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)
1-1/4	32	.56	14	6.57	167	1.34	34	.37	9	.59	15	-	-
1-5/8	41	.63	16	7.22	183	1.59	40	.56	14	.78	20	-	-
2	51	.75	19	7.86	200	1.81	46	.63	16	.75	19	2.89	73
2-1/2	64	1.00	25	10.94	278	2.84	72	.88	22	1.25	32	3.67	93
3	76	1.31	33	12.77	324	3.56	90	1.13	29	1.38	35	4.50	114
4	102	1.63	41	15.25	387	4.00	102	1.25	32	1.88	48	5.58	142

7/8" (22 mm) Break-Away Swivels for Directional Drilling

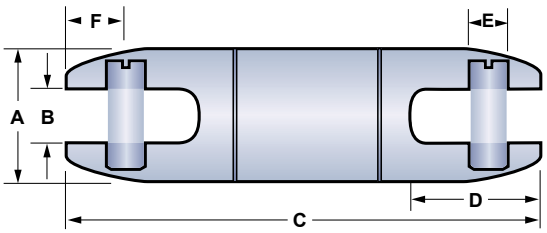
Avoid overstressing cable or conduit being pulled in during directional drilling operations. The Condux 7/8" (22 mm) Break-Away Swivel for directional drilling is designed exclusively to provide both the swivel and the break link for product pull-back. Eliminate the use of two or more components and shorten the gap between the reamer and pulling eye. No need to use "weak link" pipe sections or wire when using the 7/8" (22 mm) 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 ±5% 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	10	4.83	123	1.03	26	.31	8	.53	13

	Break Load		Replacement Pin	
Part Number	(LBS.)	(N)	Part Number	Color
7/8" Swivel (22 mm)				
08021015	150	667	08018106	White
08021020	200	890	08018306	Green
08021025	250	1,112	08018006	Blue
08021030	300	1,334	08017606	Brown
08021035	350	1,557	08018405	Black/Green
08021040	400	1,779	08075305	Blue/Black
08021045	450	2,002	08015805	Blue/Yellow
08021050	500	2,224	08076505	Orange/Red
08021055	550	2,446	08018505	Blue/Green
08021060	600	2,669	08015005	Orange/Black
08021065	650	2,891	08018605	Slate/Green
08021070	700	3,114	08076005	Orange/White

	Break Load		Replacement Pin	
Part Number	(LBS.)	(N)	Part Number	Color
7/8" Swivel (22 mm) continued				
08021075	750	3,336	08075505	Orange/Violet
08021080	800	3,559	08018705	Red/Yellow
08021085	850	3,781	08018805	Black/Yellow
08021090	900	4,003	08076605	Orange/Yellow
08021100	1,000	4,448	08015705	Green/White
08021110	1,100	4,893	08018905	White/Yellow
08021120	1,200	5,338	08015205	Brown/White
08021130	1,300	5,782	08019105	Brown/Yellow
08021140	1,400	6,227	08074605	Green/Red
08021150	1,500	6,672	08076905	Green/Yellow
08021160	1,600	7,117	08019205	Black/White
08021170	1,700	7,562	08019305	Red/White
08021180	1,800	8,006	08017705	Brown/Black

PE & PVC PULLING EYES

PE & PVC Pulling Eyes

The Condux PE & PVC Pulling Eyes feature two designs to suit your needs.

The non-sleeved design provides optimum gripping power, an extremely rigid center rod to prevent bending, and a steel tapered lead cone with the same O.D. as the conduit. The sleeved versions are water tight eyes that feature a multiple O-Ring configuration. These also have an extremely rigid center rod and sleeves designed to protect the outer leading edge of the conduit to form a water tight seal. Both the sleeved and non-sleeved designs feature split gripping segments with aggressive gripping threads, coupled with a steel expansion plug that grips the full range of conduit I.Ds.

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.

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

See chart on page 38 for swivel compatibility.
Replacement O-Rings on page 39.



Non Sleeved Pulling Eye
(page 36)



Short Sleeved Pulling Eye
(page 37)

PE & PVC Pulling Eyes Non-Sleeved Part Numbers

	Nominal Size	Length		Conduit ID				Lead Cone OD		Duct Type	Nominal Duct ID	
				Minimum		Maximum						
Part Number	(IN.)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)		(IN.)	(MM)
08220220	1.5	8.33	211	1.51	38	1.80	46	2.375	60	1.5 SDR 11.0-17.0	1.53-1.66	39-42
										1.5 SCH 40	1.59	40
										1.5 SIDR	1.61	41
08220020	2	8.18	206	1.88	48	2.15	55	2.375	60	2.0 SDR 11.0-17.0	1.92-2.08	49-53
										2.0 SCH 80	1.91	49
										2.0 SCH 40	2.05	52
										2.0 SIDR	2.07	53
08220030	3	11.89	302	2.69	68	3.13	79	4.00	102	3.0 SDR 11.0-17.0	2.83-3.06	72-78
										3.0 SCH 80	2.83	72
										3.0 SCH 40	3.04	77
										3.0 SIDR	3.07	78
08220611	4	14.11	358	3.50	89	4.20	106	4.81	122	4.0 SDR 11.0-17.0	3.63-3.94	92-100
										4.0 SCH 80	3.79	96
										4.0 SCH 40	4.00	102
										4.0 SIDR	4.03	102
08220050	5	18.45	469	4.25	108	5.06	129	5.56	141	5.0 SDR 11.0-21.0	4.49-5.03	114-128
										5.0 SCH 80	4.77	121
										5.0 SCH 40	5.02	128
08220060	6	19.6	498	5.06	129	6.00	152	7.00	178	6.0 SDR 11.0-21.0	5.35-5.96	136-151
										6.0 SCH 80	5.71	145

PE & PVC Pulling Eyes: Short Sleeved Part Numbers

	Nominal Size	Length		Conduit ID				Sleeve ID		Duct Type	Nominal Duct ID	
				Minimum		Maximum						
Short Sleeved Part Number	(IN.)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)		(IN.)	(MM)
08220612	1.0	6.23	158	1.00	25	1.25	32	1.415	36	1.0 SDR 11.0	1.06	27
										1.0 SDR 13.5	1.10	28
08220600	1.25	6.23	158	1.25	32	1.50	38	1.76	48	1.25 SDR 11.0	1.33	34
										1.25 SCH 40	1.34	34
										1.25 SDR 13.5	1.39	35
										1.25 SDR 15.5	1.43	36
										1.25 SDR 17.0	1.44	37
										1.25 SDR 21.0	1.50	38
08220601	1.5	6.23	158	1.50	38	1.75	44	2.01	51	1.50 SDR 11.0	1.53	39
										1.50 SDR 13.5	1.60	41
										1.50 SCH 40	1.59	40
										1.50 SDR 15.5	1.63	41
										1.50 SDR 17.0	1.66	42
										1.50 SDR 21.0	1.72	44
08220602	2.0	8.18	208	1.88	48	2.15	55	2.45	62	2.0 SDR 11.0	1.92	49
										2.0 SDR 13.5	2.00	51
										2.0 SDR 15.5	2.05	52
										2.0 SCH 40	2.05	52
										2.0 SDR 17.0	2.08	53
										2.0 SDR 21.0	2.15	55
08220609	2.5	8.80	224	2.31	59	2.56	65	3.01	76	2.5 SDR 11.0	2.32	59
										2.5 SDR 13.5	2.42	61
										2.5 SCH 40	2.45	62
										2.5 SDR 15.5	2.48	63
										2.5 SDR 17.0	2.52	64
08220603	3	11.89	302	2.69	68	3.13	79	3.63	92	3.0 SDR 11.0	2.83	72
										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	3.04	77
08220604	4	14.11	358	3.50	89	4.06	103	4.63	118	4.0 SDR 11.0	3.63	92
										4.0 SDR 13.5	3.79	96
										4.0 SCH 80	3.79	96
										4.0 SDR 15.5	3.89	99
										4.0 SDR 17.0	3.94	100
										4.0 SCH 40	4.00	102
										4.0 SDR 21.0	4.05	103
08220605	5	18.45	469	4.25	108	5.06	129	5.63	143	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 17.0	4.87	124
										5.0 SDR 21.0	5.00	127
										5.0 SCH 40	5.05	128
08220606	6	19.60	498	5.06	129	6.00	152	6.76	172	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 SDR 17.0	5.80	147
										6.0 SDR 21.0	5.96	151
08220608	8	21.53	547	6.63	168	7.69	195	8.84	224	8.0 SDR 11.0	6.96	177
										8.0 SDR 13.5	7.27	185
										8.0 SDR 15.5	7.45	189
										8.0 SDR 17.0	7.55	192

PE & PVC PULLING EYES



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

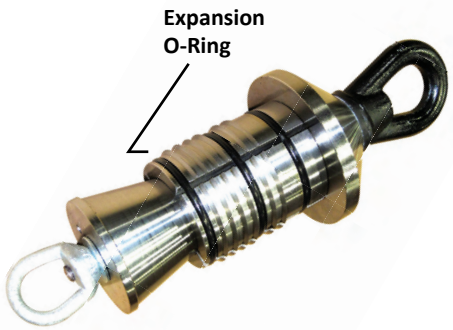
Swivel Part Number	Swivel Size		Compatible PE/PVC Eye Size (in)
	(in)	(mm)	
08190016	1-5/8	41	1.0 - 3.0
08190020	2	51	1.0 - 3.0
08190025	2-1/2	64	2.0 - 6.0
08190030	3	76	4.0 - 6.0
08190408	7/8	22	1.0 - 1.5
08190412	1-1/4	32	1.0 - 3.0
08190416	1-5/8	41	1.0 - 3.0
08190421	2	51	1.0 - 3.0
08190426	2-1/2	64	2.0 - 8.0
08190431	3	76	4.0 - 8.0



Replacement O-Ring Part Numbers

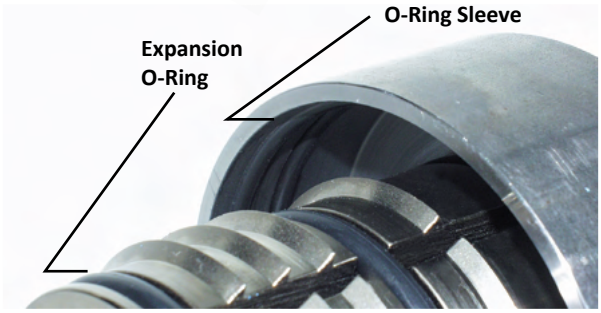
PE & PVC Pulling Eyes Non-Sleeved O-Rings

Pulling Eye Part Number	Expansion O-Ring Part Number	Quantity Per Eye
08220220	08010414	2
08220030	02269624	3
08220611	02269621	3
08220050	02269626	6
08220060	02269622	6



PE & PVC Pulling Eyes Short Sleeved O-Rings

Pulling Eye Part Number	Expansion O-Ring Part Number	Quantity Per Eye	O-Rings in Sleeve Part Number	Quantity Per Eye
08220612	02288918	2	02289886	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



INNERDUCT PULLING PRODUCTS



Swivel Head Innerduct Pulling Eye

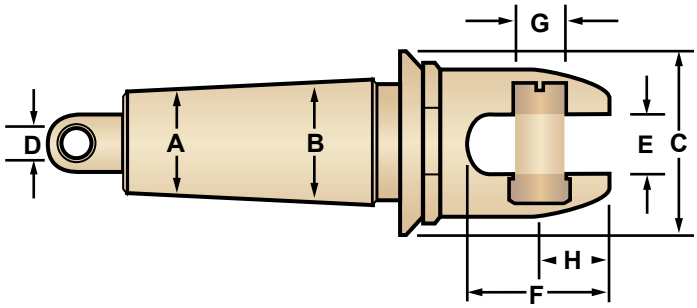
The Innerduct Pulling Eye is a hybrid tool that combines features from standard innerduct pulling eyes and Condux swivels. A swivel head prevents twisting and binding of the innerduct as it is installed. It eliminates the need for a separate swivel on each pulling eye when installing single innerducts 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 1⅜" 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





! **See compatibility chart on page 43 to determine what Innerduct Pulling Eyes work with various standard innerduct sizes.**

	Nominal Size	Innerduct ID Range		Max OD C		Hole Diameter D		Slot Width E		Slot Depth F		Pin Diameter G		Pin Center H	
Part Number	(IN.)	A - B (IN.)	A - B (MM)	(IN.)	MM	(IN.)	MM	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)
08960712	1 - 1.25	1.06 - 1.43	27 - 37	1.75	44	.44	11	.56	14	1.31	33	.43	11	.56	14
08960715	1.50	1.37 - 1.68	35 - 43	2.00	51	.44	11	.56	14	1.31	33	.43	11	.56	14
08960720	2.00	1.93 - 2.12	49 - 54	2.44	62	.44	11	.56	14	1.31	33	.43	11	.56	14

All Swivel Head Innerduct Pulling Eyes are compatible with all Condux pulling harness legs.

Clevis Head Innerduct Pulling Eye

With the same tapered threads as the fixed head innerduct pulling eyes, 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.



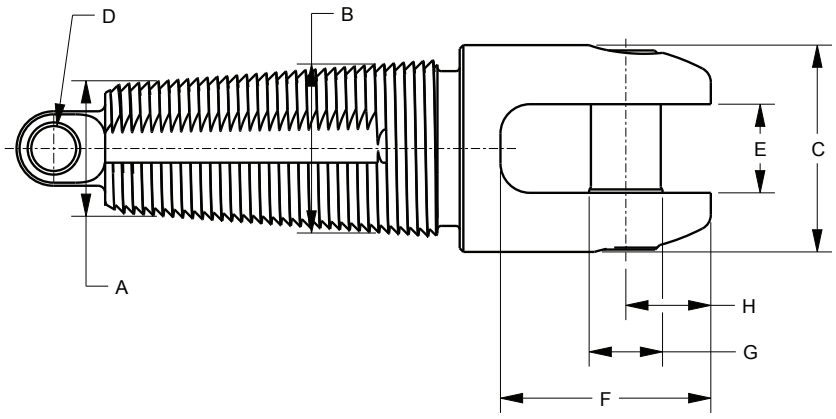
Replacement Clevis Pins for Clevis Head Innerduct Pulling Eyes

Part Number	Replacement Part Number
08914310	08081046
08914322	08081036
08914330	08210135
08914342	08081016
08914350	08081016
08914362	08081006

See compatibility chart on page 43 to determine what Innerduct Pulling Eyes work with various standard innerduct sizes.

	Nominal Size	Innerduct ID Range		Max OD C		Hole Diameter D		Slot Width E		Slot Depth F		Pin Diameter G		Pin Center H	
Part Number	(IN.)	A - B (IN.)	A - B (MM)	(IN.)	MM	(IN.)	MM	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)
08914310	0.75	.73 - .94	19 - 24	1.25	32	.25	6	.56	14	1.34	34	.37	9	.59	15
08914322	1.00	.97 - 1.14	25 - 29	1.38	35	.25	6	.56	14	1.34	34	.43	11	.56	14
08914330	1.25	1.16 - 1.43	29 - 36	1.75	44	.38	10	.75	19	1.78	45	.62	16	.72	18
08914342	1.50	1.50 - 1.67	38 - 42	2.00	51	.38	10	.75	19	1.78	45	.62	16	.72	18
08914350	1.75	1.72 - 1.85	44 - 47	2.25	57	.38	10	.75	19	1.78	45	.62	16	.72	18
08914362	2.00	1.88 - 2.07	48 - 53	2.50	64	.38	10	.75	19	2.50	64	.87	22	1.23	31

All Clevis Head Innerduct Pulling Eyes are compatible with all Condux pulling harness legs.



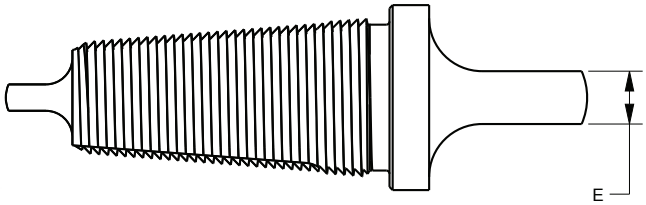
INNERDUCT PULLING PRODUCTS

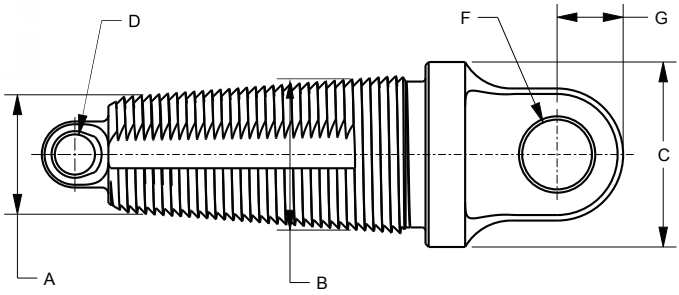


Fixed Head Innerduct Pulling Eye

Tapered buttress threads thread into the innerduct for maximum pulling strength. These eyes connect directly to a Condux swivel (see page 24). 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.





! See compatibility chart on page 43 to determine what Innerduct Pulling Eyes work with various standard innerduct sizes.

	Nominal Size	Innerduct ID Range		Max OD C		Hole Diameter D		Tang Thickness E		Tang Hole Diameter F		Tang Hole Location G	
Part Number	(IN.)	A - B (IN.)	A - B (MM)	(IN.)	MM	(IN.)	MM	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)
08914110 *	0.75	.73 - .94	19 - 24	1.25	32	.25	6	.38	10	.50	13	.50	13
08914122 *	1.00	.97 - 1.14	25 - 29	1.38	35	.25	6	.38	10	.50	13	.50	13
08914130 *	1.25	1.16 - 1.43	29 - 36	1.75	44	.38	10	.50	13	.66	17	.63	16
08914142 *	1.50	1.50 - 1.67	38 - 42	2.00	51	.38	10	.50	13	.66	17	.63	16
08914150 **	1.75	1.72 - 1.85	44 - 47	2.25	57	.38	10	.50	13	.66	17	.75	19
08914162 **	2.00	1.88 - 2.07	48 - 53	2.50	64	.38	10	.50	13	.81	21	.75	19

* Compatible with ¼"-⅜" Threaded Chain Connectors and Condux Swivels 08080912, 08080913, 08210012, and 08210014
** Compatible with 5⁄16"-½" Threaded Chain Connectors and Condux Swivels 08210012 and 08210014

Innerduct Compatibility Chart

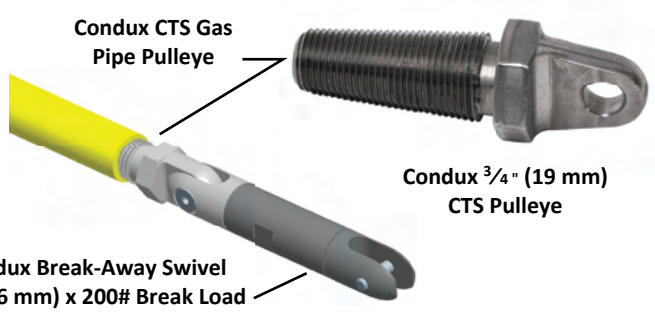
Use the chart to determine which Innerduct Pulling Eyes work with the different sizes of innerduct.

			Innerduct Eye Part No.	Innerduct I.D. Range	Compatible Innerduct				
					0.75"	1.00"	1.25"	1.50"	2.00"
		Swivel Head	08960712	1.06"-1.43" (27 mm-36 mm)	-	SDR 13.5 SDR 15.5 SDR 17 SDR 21	SDR 7 SDR 9 SDR 11 SDR 13.5	SDR 7	-
			08960715	1.37"-1.68" (35 mm-42 mm)	-	-	SDR 13.5 SDR 15.5 SDR 17 SDR 21	SDR 9 SDR 11 SDR 13.5 SDR 15.5	-
			08960720	1.93"-2.12" (49 mm-54 mm)	-	-	-	-	SDR 13.5 SDR 15.5 SDR 17
Fixed Head	08914110	Clevis Head	08914310	.73"-.94" (19 mm-24 mm)	SDR 9 SDR 11 SDR 13.5 SDR 15.5	-	-	-	-
	08914122		08914322	.97"-1.14" (25 mm- 29 mm)	-	SDR 9 SDR 11 SDR 13.5 SDR 15.5 SCH 40	-	-	-
	08914130		08914330	1.16"-1.43" (29 mm-36 mm)	-	SDR 21	SDR 7 SDR 9 SDR 11 SDR 13.5	SDR 7	-
	08914142		08914342	1.50"-1.67" (38 mm- 42 mm)	-	-	SDR 21	SDR 11 SDR 13.5 SDR 15.5 SDR 17 SCH 40	-
	08914150		08914350	1.72"-1.85" (44 mm-47 mm)	-	-	-	SDR 21	-
	08914162		08914362	1.88"-2.07" (48 mm- 53 mm)	-	-	-	-	SDR 11 SDR 13.5 SDR 15.5 SCH 40 SCH 80

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 5/8" 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
08914007	3/4 Inch CTS Gas Pipe Pulleye	.551"-.813" (14 mm-21 mm)



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 (10-13 mm ID)
08913538	Innerduct Eyes for Micro Duct (13-15 mm ID)



PULLING EYE SYSTEMS

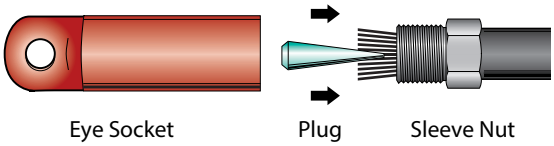


Reusable Power Cable Pulling Eyes

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.

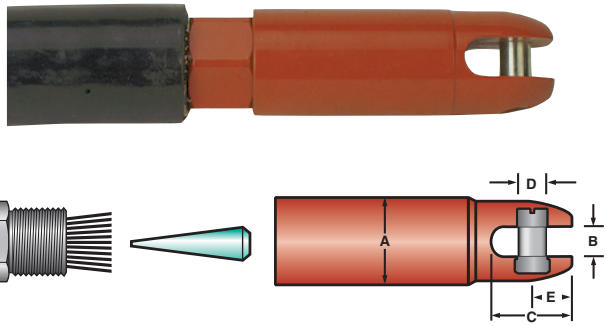
Three designs of Reusable Power Pulling Eyes are available: Clevis Head, Standard Head, and Swivel Head.

For ease of ordering and cost savings, kits are available for Clevis, Swivel and Standard Head Reusable Eyes. See pages 44 - 46 for information.



Reusable Power Pulling Eyes, Clevis Head

The Clevis Head Power Pulling Eyes feature a slotted head with clevis pin to allow direct attachment to a 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.



	Cable Size	Color	Maximum Conductor Diameter		Max Eye OD A		Slot Width B		Slot Depth C		Pin Diameter D		Pin Center E		Replacement Plug Part Number	Load Rating	
Part Number			(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)		LBS	KN
08918150*	2500 kcmil	Green	1.824	46	3.00	76	1.00	25	2.80	71	.88	22	1.23	31	08918123	25000	111
08918050*	2000 kcmil	Red	1.601	41	2.50	64	1.00	25	2.80	71	.88	22	1.23	31	08918023	25000	111
08917750*	1750 kcmil	Yellow	1.526	39	2.50	64	1.00	25	2.80	71	.88	22	1.23	31	08917723	25000	111
08917950*	1500 kcmil	Black	1.412	36	2.38	60	.75	19	1.78	45	.63	16	.72	18	08917923	15000	66.7
08917850*	1250 kcmil	Blue	1.289	33	2.25	57	.75	19	1.78	45	.63	16	.72	18	08917823	15000	66.7
08917150*	1000 kcmil	Orange	1.152	29	2.06	52	.75	19	1.78	45	.63	16	.72	18	08917123	15000	66.7
08917250*	750 kcmil	Brown	.998	25	1.75	44	.63	16	1.59	40	.56	14	.78	20	08917223	10000	44.5
08917350*	700 kcmil	Gray	.964	24	1.75	44	.63	16	1.59	40	.56	14	.78	20	08917323	10000	44.5
08918250*	600 kcmil	Green	.937	24	1.75	44	.63	16	1.59	40	.56	14	.78	20	08918223	10000	44.5
08917450*	500 kcmil	Yellow	.813	21	1.44	37	.59	15	1.41	36	.44	11	.59	15	08917423	7000	31.1
08918350*	400 kcmil	Black	.713	18	1.44	37	.59	15	1.41	36	.44	11	.59	15	08918323	5000	22.2
08917550*	350 kcmil	White	.681	17	1.25	32	.56	14	1.34	34	.38	10	.59	15	08917523	2500	11.1
08960350**	250 kcmil	Blue	.575	15	1.13	29	.38	10	1.06	27	.31	8	.53	13	08960323	2500	11.1
08960450**	4/0 AWG	Green	.528	13	1.00	25	.38	10	1.06	27	.31	8	.53	13	08960423	2500	11.1
08960950**	3/0 AWG	Orange	.475	12	1.00	25	.38	10	1.06	27	.31	8	.53	13	08960923	2500	11.1
08960850**	2/0 AWG	Black	.419	11	1.00	25	.38	10	1.06	27	.31	8	.53	13	08960823	2500	11.1
08960550**	1/0 AWG	Red	.373	9	0.88	22	.38	10	1.06	27	.31	8	.53	13	08960523	2500	11.1

* - Compatible with all Condux pulling harness legs.
** - Compatible with ⅛" (3 mm) and ¼" (6 mm) Condux pulling harness legs.

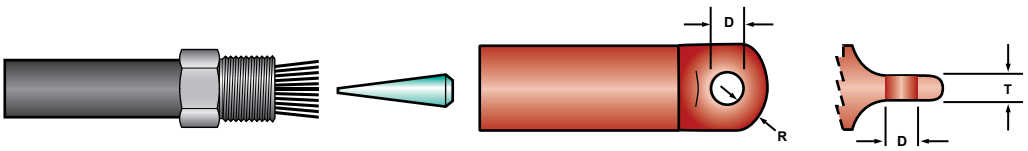
! Will not work on flat aluminum stranded conductor.

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.



For swivel compatibility, refer to compatibility chart on page 27.



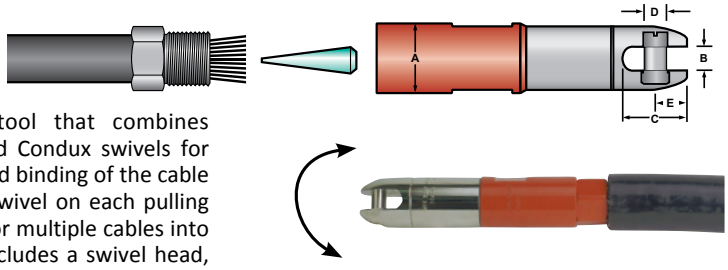
	Cable Size	Color	Maximum Conductor Diameter		Max Eye OD		Hole Diameter D		Eye Thickness T		Eye Width R		Replacement Plug Part Number	Working Load	
Part Number			(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)		LBS	KN
08918455	6000 kcmil	Orange	2.785	71	4.50	114	1.31	33	1.50	38	1.22	31	08918423	59,000	262.4
08918440	5000 kcmil	Blue	2.500	64	4.50	114	1.31	33	1.50	38	1.22	31	08918423	59,000	262.4
08918450	4000 kcmil	Yellow	2.220	56	4.00	102	1.25	32	1.50	38	1.25	32	08918423	42,500	189.0
08918445	3500 kcmil	Black	2.160	55	4.00	102	1.25	32	1.50	38	1.25	32	08918423	42,500	189.0
08918430	3000 kcmil	Gray	2.030	52	4.00	102	0.88	22	.94	24	.81	21	08918423	26,000	115.6
08918585	2750 kcmil	White	1.964	50	4.00	102	0.88	22	.94	24	.81	21	08918423	26,000	115.6
08918580	2500 kcmil	Green	1.923	49	4.00	102	0.88	22	.94	24	.81	21	08918123	26,000	115.6
08918575	2000 kcmil	Red	1.700	43	2.63	67	1.00	25	.88	22	.75	19	08918023	25,000	111.2
08918570	1750 kcmil	Yellow	1.625	41	2.63	67	1.00	25	.88	22	.75	19	08917723	25,000	111.2
08918565	1500 kcmil	Black	1.469	37	2.63	67	1.00	25	.88	22	.75	19	08917923	25,000	111.2
08918560	1250 kcmil	Blue	1.328	34	2.63	67	1.00	25	.88	22	.75	19	08917823	25,000	111.2
08918555	1000 kcmil	Orange	1.203	31	2.00	51	0.69	17	.63	16	.59	15	08917123	13,500	60.0
08918550	750 kcmil	Brown	1.031	26	2.00	51	0.69	17	.63	16	.59	15	08917223	13,500	60.0
08918545	700 kcmil	Gray	1.00	25	2.00	51	0.69	17	.63	16	.59	15	08917323	13,500	60.0
08918540	600 kcmil	Green	.906	23	2.00	51	0.69	17	.63	16	.59	15	08918223	13,500	60.0
08918535	500 kcmil	Yellow	.843	21	1.88	48	0.69	17	.50	13	.59	15	08917423	8,500	37.8
08918530	400 kcmil	Black	.750	19	1.88	48	0.69	17	.50	13	.59	15	08918323	8,500	37.8
08918525	350 kcmil	White	.718	18	1.88	48	0.69	17	.50	13	.59	15	08917523	8,500	37.8
08918520	250 kcmil	Blue	.640	16	1.25	32	0.50	13	.50	13	.38	10	08960323	6,500	28.9
08918515	4/0 AWG	Green	.531	13	1.25	32	0.50	13	.50	13	.38	10	08960423	6,500	28.9
08918510	3/0 AWG	Orange	.475	12	1.25	32	0.50	13	.50	13	.38	10	08960923	6,500	28.9
08918505	2/0 AWG	Black	.431	11	1.25	32	0.50	13	.50	13	.38	10	08960823	6,500	28.9
08918500	1/0 AWG	Red	.390	10	1.25	32	0.50	13	.50	13	.38	10	08960523	6,500	28.9

3:1 Safety Factor

! Will not work on flat aluminum stranded conductor.

PULLING EYE SYSTEMS

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.

	Cable Size	Color	Maximum Conductor Diameter		Max Eye OD A		Slot Width B		Slot Depth C		Pin Diameter D		Pin Center E		Replacement Plug Part Number	Load Rating	
Part Number			(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)		LBS	KN
08918175*	2500 kcmil	Green	1.824	46	3.00	76	1.00	25	2.80	71	.88	22	1.23	31	08918123	25000	111
08918075*	2000 kcmil	Red	1.601	41	2.50	64	1.00	25	2.80	71	.88	22	1.23	31	08918023	25000	111
08917775*	1750 kcmil	Yellow	1.526	39	2.50	64	1.00	25	2.80	71	.88	22	1.23	31	08917723	25000	111
08917975*	1500 kcmil	Black	1.412	36	2.38	60	.75	19	1.78	45	.63	16	.72	18	08917923	15000	66.7
08917875*	1250 kcmil	Blue	1.289	33	2.25	57	.75	19	1.78	45	.63	16	.72	18	08917823	15000	66.7
08917175*	1000 kcmil	Orange	1.152	29	2.06	52	.75	19	1.78	45	.63	16	.72	18	08917123	15000	66.7
08917275*	750 kcmil	Brown	.998	25	1.75	44	.63	16	1.59	40	.56	14	.78	20	08917223	10000	44.5
08917375*	700 kcmil	Gray	.964	24	1.75	44	.63	16	1.59	40	.56	14	.78	20	08917323	10000	44.5
08918275*	600 kcmil	Green	.9367	24	1.75	44	.63	16	1.59	40	.56	14	.78	19	08918223	10000	44.5
08917475*	500 kcmil	Yellow	.813	21	1.44	37	.56	14	1.31	33	.44	11	.56	14	08917423	7000	31.1
08918375*	400 kcmil	Black	.7125	18	1.44	37	.56	14	1.31	33	.44	11	.56	14	08918323	7000	31.1
08917575*	350 kcmil	White	.681	17	1.25	32	.56	14	1.34	34	.38	10	.59	15	08917523	5000	22.2
08960375**	250 kcmil	Blue	.575	15	1.13	29	.38	10	1.03	26	.31	8	.53	13	08960323	2500	11.1
08960475**	4/0 AWG	Green	.528	13	1.00	25	.38	10	1.03	26	.31	8	.53	13	08960423	2500	11.1
08960975**	3/0 AWG	Orange	.475	12	1.00	25	.38	10	1.03	26	.31	8	.53	13	08960923	2500	11.1
08960875**	2/0 AWG	Black	.419	11	1.00	25	.38	10	1.03	26	.31	8	.53	13	08960823	2500	11.1
08960575**	1/0 AWG	Red	.373	10	.88	22	.38	10	1.03	26	.31	8	.53	13	08960523	2500	11.1

* - Compatible with all Condux pulling harness legs.
** - Compatible with ⅛" (3 mm) and ¼" (6 mm) Condux pulling harness legs.

! Will not work on flat aluminum stranded conductor.

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 600kcmil.
08917060	Kit for 1/0 AWG to 250 kcmil power pulling eyes with clevis ends. Includes three each of the eyes for 1/0 AWG to 250 kcmil cable. **NOTE:** Does not include 3/0 AWG.

Standard Head Kits

Part Number	Description
08918595	Kit for 350 to 1000 kcmil power pulling eyes with eye ends. Includes three each of the eyes for 350 to 1000 kcmil cable. **NOTE:** Does not include 400 or 600kcmil.
08918590	Kit for 1/0 AWG to 250 kcmil power pulling eyes with eye ends. Includes three each of the eyes for 1/0 AWG to 250 kcmil cable. **NOTE:** Does not include 3/0 AWG.

Swivel Head Kits

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

Replacement Case

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

Crimp-On Cable Pulling Eyes and Accessories

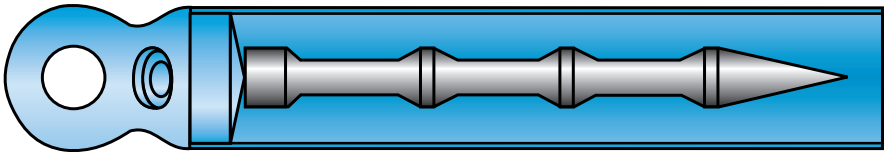
Visit www.condux.com for product literature.

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, available online at www.condux.com, lists complete information on different styles of pulling eyes available and serves as an ordering guide. Minimum order quantities apply.



Crimp-on Pulling Eye Crimper Kit and Accessories



CABLEGLIDER® LW CABLE PULLER



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 (13,345 N) of pulling force.

Design features include a pivoting arm, split conduit adapters and a foot switch for operator convenience and safety, it is recommended that the CableGlider LW be used with 3/8" - 1/2" (9.5 mm - 12.7 mm) 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)

Adapters sold separately. See page 50.

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	



1" – 5" Conduit Adapters



Adapters Split for Easy Removal



Retaining Fork

CONDUX

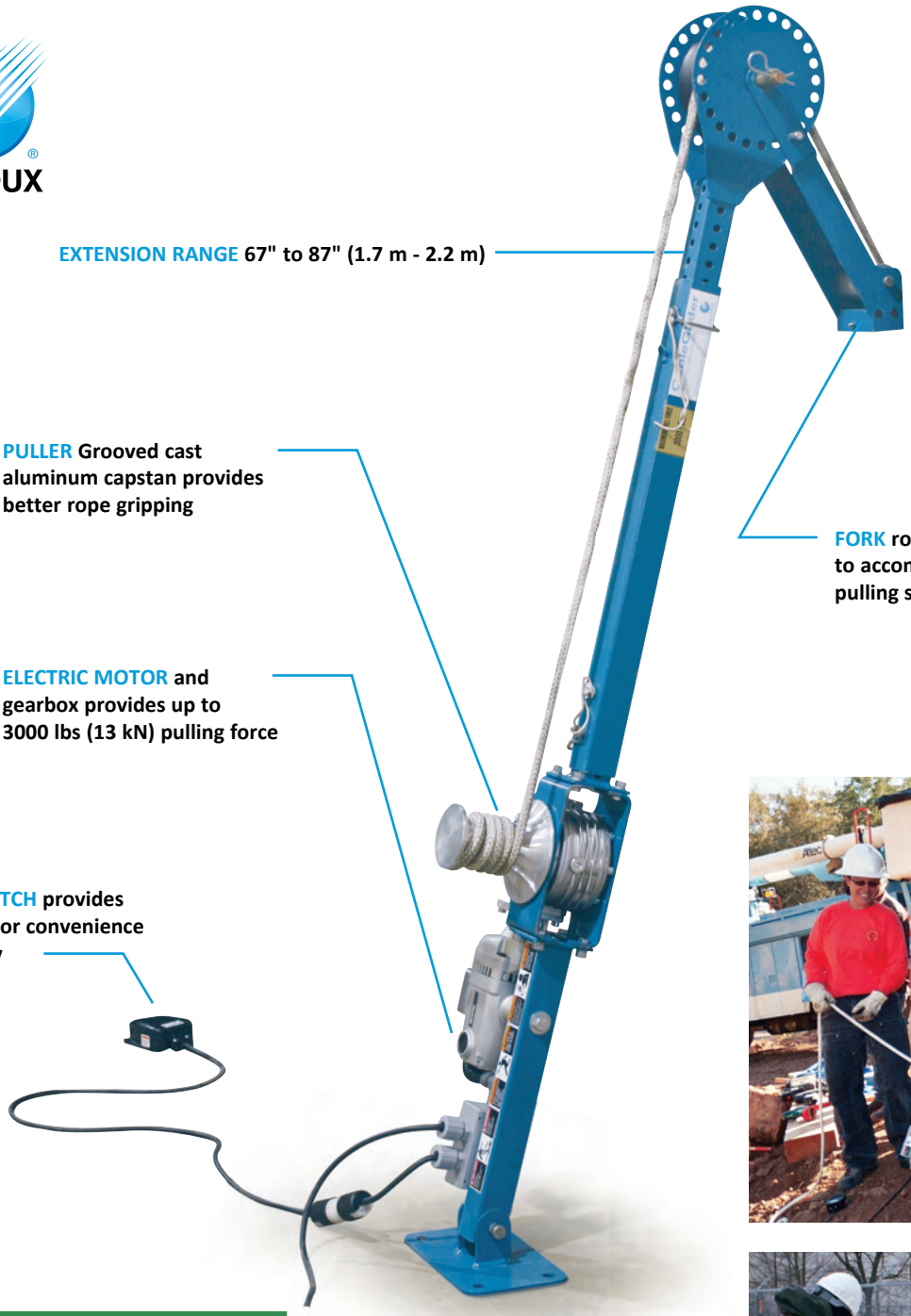
EXTENSION RANGE 67" to 87" (1.7 m - 2.2 m)

PULLER Grooved cast aluminum capstan provides better rope gripping

FORK rotates on head to accommodate different pulling situations

ELECTRIC MOTOR and gearbox provides up to 3000 lbs (13 kN) pulling force

FOOT SWITCH provides for operator convenience and safety









Can be used for Vertical or Horizontal Pulls

CABLEGLIDER® LW ACCESSORIES



CableGlider LW® Tripod

Pull an additional 5' (1.5 m) of slack with the Condux LW CableGlider Tripod.

NOTE: LW CableGlider sold separately.

Part No.	Description
08678350	3,000 lb (13,345 N) CG Tripod
08678370	3,000 lb (13,345 N) CG Tripod Retro Kit

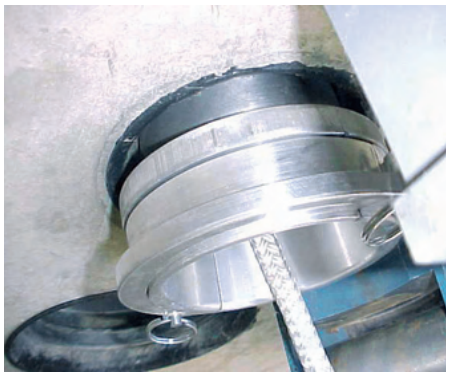
LW Conduit Adapters

Adapters are available, which allow pulling into conduit up to 6" (152 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.



LW 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



LW 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

For cost savings and ease of ordering, Condux has prepared kits for the CableGlider LW Adapters.

LW 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

LW 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



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 ±20%) Amp usage is then translated into a tension reading shown on the display.

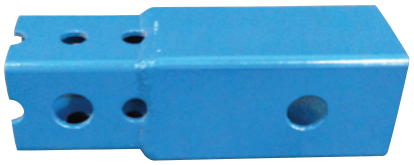
Part Number	Description
08674110	110 Volt Amp-Type Tensiometer (LW model)



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 CableGlider power pack to the floor, steel conduit, I-beams or a wood pole. Typically 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.

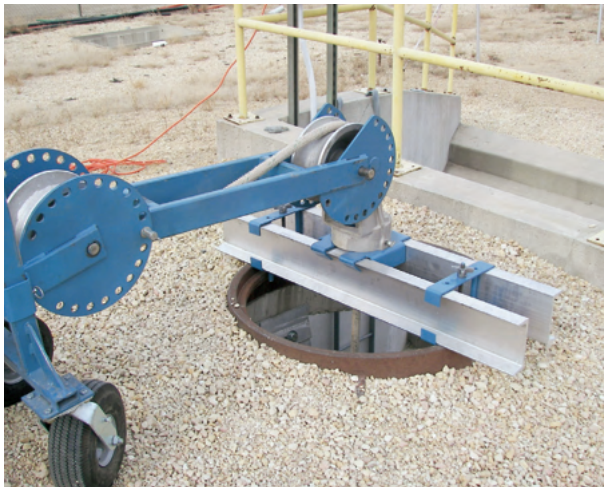
NOTE: 24" (610 mm) diameter maximum pole.

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® ACCESSORIES



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" (457 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. (53,379 N).

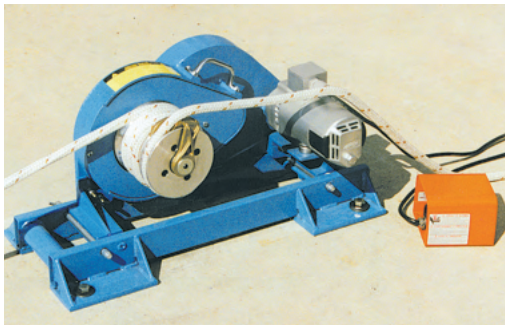
Part Number	Description
08674750	Adjustable Manhole Adapter (comes standard with 4" plate)
08674752	6" Plate - Required when using 6" retaining fork (page 59)

Floor Mount Frame

Fastens to the floor of a vault, manhole, or utility room. The power pack easily pins to the frame. Requires 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 (HD model)



Floor/Conduit/Pole Mount Frame

Makes it possible to attach the power pack to the floor, steel conduit, I-beams or a wood pole. Typically 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.

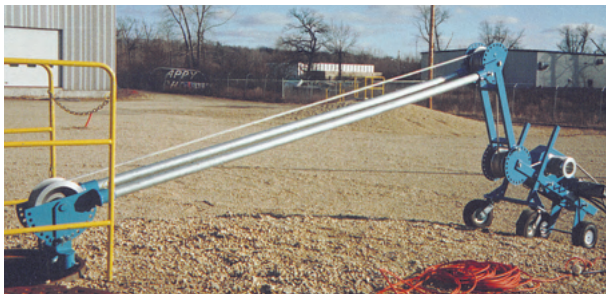
WARNING: CableGlider Cable Pullers are not to be used as a hoist or for lifting, supporting or transporting people or loads.

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





CABLEGLIDER® ACCESSORIES



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.

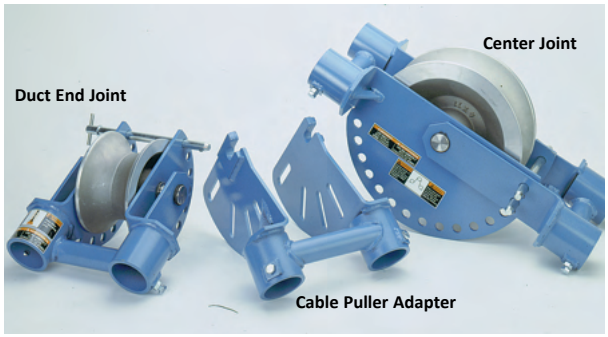
Ideal for cable pulling in deep manholes where added reach is necessary. Also, high overhead ducts can be reached without compromising the stability of the cable puller.

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.

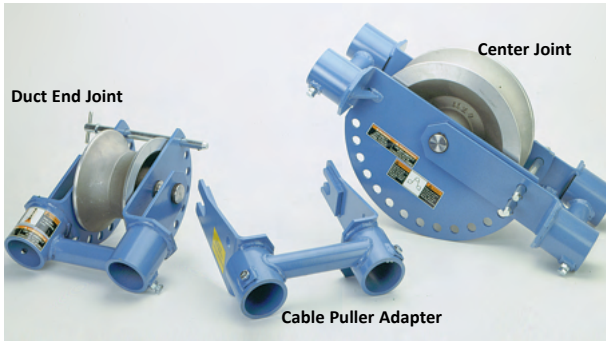
Extension Frames are available in kits that configure to Condux CableGlider Standard and Heavy Duty Cable Pullers. Each kit contains:

- 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 Kit for CableGlider HD Model

Extension Frame Kits

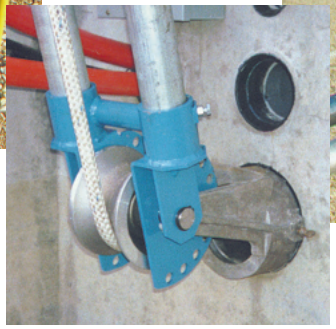
Part Number	Description
08674940	Kit for CableGlider STD model
08674960	Kit for CableGlider HD model

Replacement Parts/Individual Components

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



Center Joint



Duct End Joint



Cable Puller Adapter



Conduit Adapters

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

Adapters for 2", 3", 3½", and 4" conduit are included in a tool box that comes standard with all cable pullers. Order additional adapters separately below, or order a complete toolbox.

Duct Size (in)	Straight Adapter Part Number	Split Adapter Part Number
1¼	08610642	08611001
1½	08610623	08611002
2	08610643*	08611003+
2½	08610647	08611004
3	08610644*	08611005+
3½	08610645*	08611006+
4	08610646*	08611007+
5	08610648	08611008
6	08610649	08611009

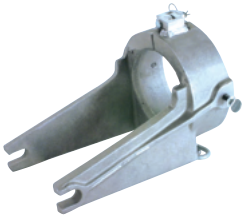


Accessories

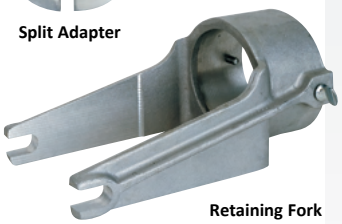
Part #	Description
02276000*+	Tool box only for accessories
08674021*	Retaining fork for 2"–4" conduit adapters
08611012+	Split adapter retaining fork for 2"–4" conduit adapters
08674022	Retaining fork for 5"–6" conduit adapters
08611013	Split adapter retaining fork for 5"–6" conduit adapters
08674017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



Split Adapter



Split Adapter Retaining Fork



Retaining Fork

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" 45° Elbow adapter
08611011	4" 45° Split Elbow adapter



Elbow Adapter



Split Elbow Adapter



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 model)
08674501	110 Volt Amp-Type Tensiometer (HD model)
08674502	220/240 Volt Amp-Type Tensiometer (STD model)
08674502-AU	220/240 Volt Amp-Type Tensiometer AU (STD model)

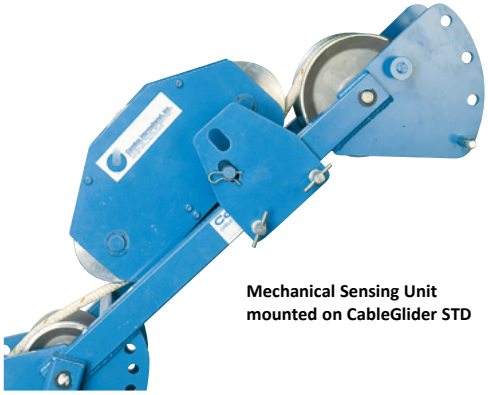


Amp-Type Tensiometer for HD Model

Amp-Type Tensiometer for STD Model

RUNNING LINE TENSIOMETER





Mechanical Sensing Unit mounted on CableGlider STD



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 ⅞" diameter with an accuracy of ±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 28,913 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
08677350	110 Volt RLT for CableGlider STD w/data recorder

Running Line Tensiometer, CableGlider HD

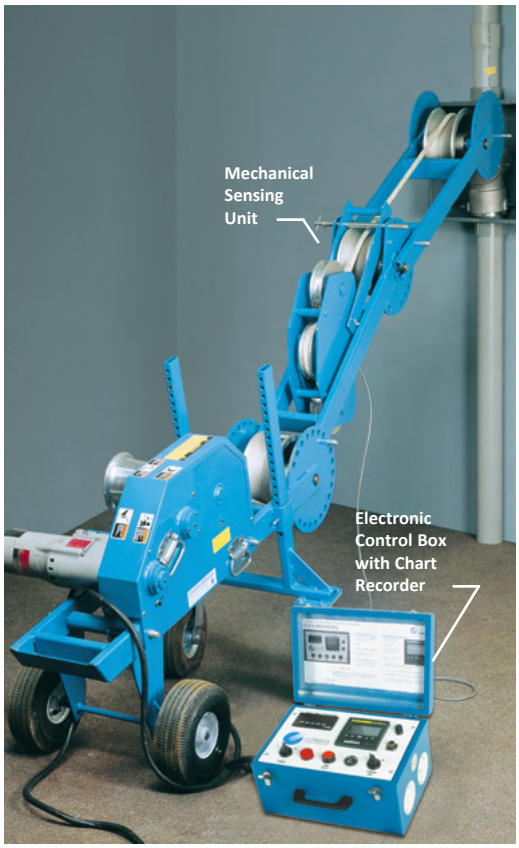
Measures loads of 0 to 12,000 lbs. (0 to 53,379 N) with an accuracy of ±600 lbs. (2,669 N).

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/chart recorder
08677365	110 Volt RLT for CableGlider HD w/chart recorder and nylatron rollers



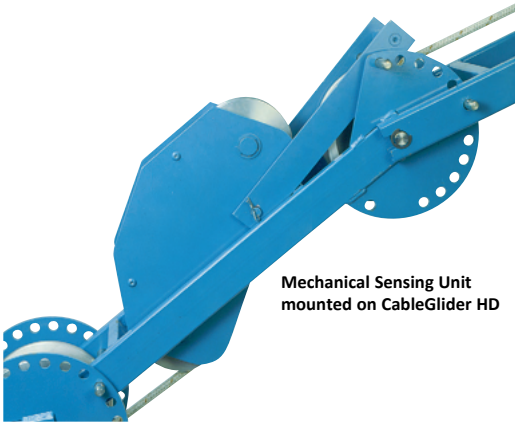
Replacement Mechanical Sensing Units

Part Number	Description
08677373	Mechanical Sensing Unit for STD
08677374	Mechanical Sensing Unit for HD

Remote Mount Stand for Mechanical Sensing Unit

Required for use of the Running Line Tensiometer when the power pack is not mounted to the standard frame, such as when floor-mounted (pg. 53).

Part Number	Description
08677385	Remote Mount Stand for Mechanical Sensing Unit



Mechanical Sensing Unit mounted on CableGlider HD



Running Line Tensiometer Electronic Control Box



Paperless Chart Recorder with Flash Drive and USB Interface

THE BLUE OX™ CABLE PULLER

The Blue Ox™ Cable Puller

Combining years of experience, field research and end user feedback, The Condux Blue Ox™ Cable Puller has been designed to excel in the most demanding utility applications. Featuring 8,500 lbs of continuous pull force, a heavy duty steel frame and hydraulically controlled boom and outriggers, The Blue Ox does not require the arm to be supported during pulling operations. The extendable - up to 90" - steel boom arm boasts 150° of lateral adjustment, providing easy access in even the most confined areas.

Part Number	Description
08773001	The Blue Ox Cable Puller without Compressor
08775500	The Blue Ox Cable Puller with Compressor

SELF SUPPORTED BOOM ARM
150° lateral movement and 85° vertical movement.

ANTI-TWIST ROPE
3,000' of 3/8" rope comes standard with The Blue Ox.

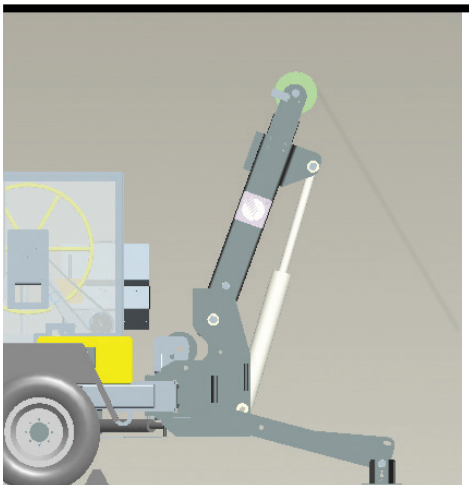
NYLATRON®* ROLLERS
have a super-hard surface and last longer than conventional cast rollers.

***Nylatron is a registered trademark of DSM.**

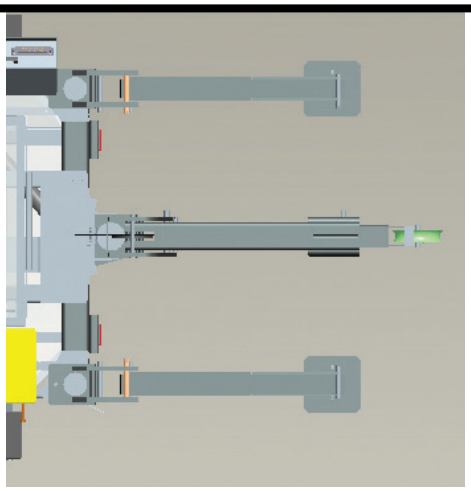




HEAVY DUTY
Outriggers for maximum stability



The Boom Arm features the ability to pull 85° from the manhole; eliminating the need for an A-Frame.



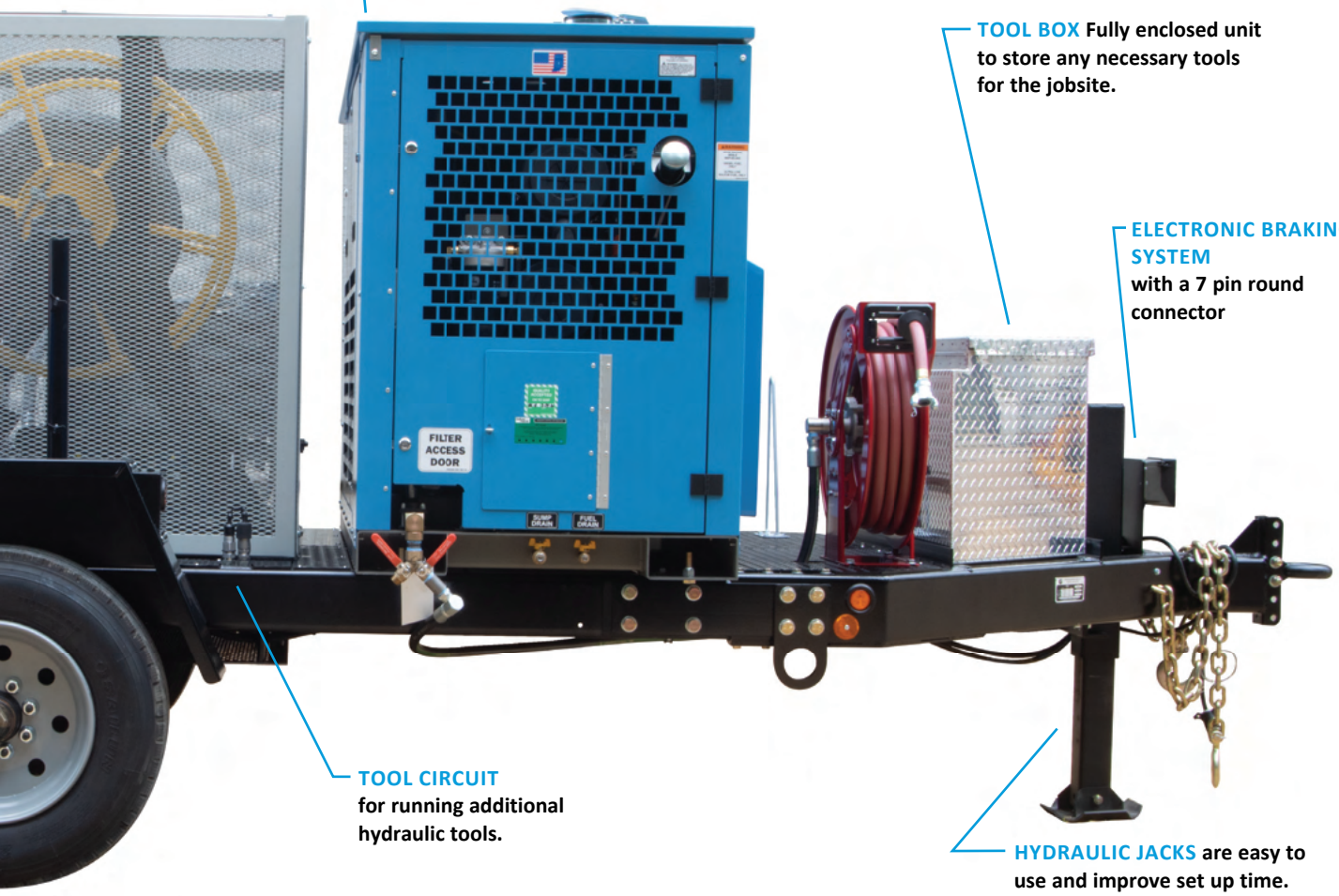
Outriggers allow The Blue Ox to pull directly over the hydraulics without being hooked to a tractor or a truck.

THE BLUE OX™ CABLE PULLER

OIL COOLER Hydraulic puller units with oil cooler provide a smooth operation throughout the pull.

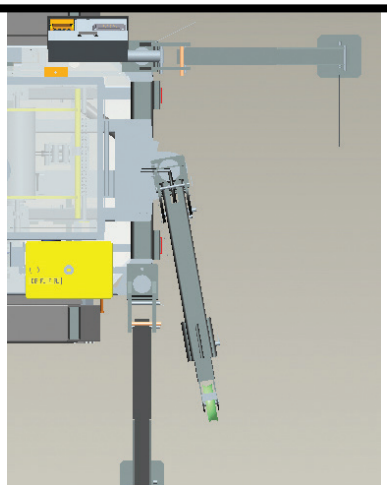
TOOL BOX Fully enclosed unit to store any necessary tools for the jobsite.

ELECTRONIC BRAKING SYSTEM with a 7 pin round connector

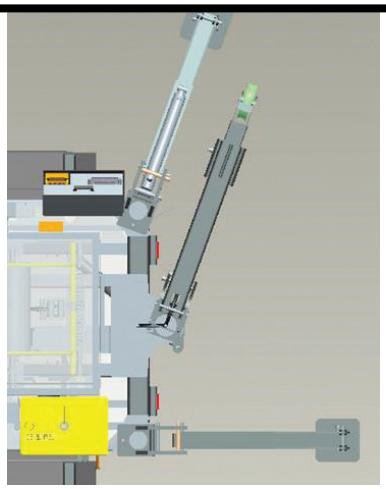


TOOL CIRCUIT for running additional hydraulic tools.

HYDRAULIC JACKS are easy to use and improve set up time.



The combination of the outrigger and the boom arm allows for easy pulling 75° from the right or left of center



THE BLUE OX™ CABLE PULLER





7" COLOR DISPLAY
gives all of the information you need during the pull



WIRELESS REMOTE
with 50' range provides flexibility for the installer.

Control Box

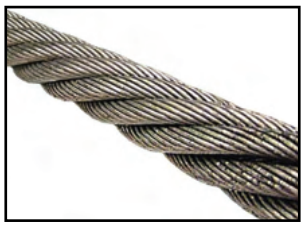
- Real Time Tension Monitoring
- Downloadable Pull Data
- Wireless/Bluetooth Remote Control

Replacement Rope

Part Number	Description
08771275	3/8" x 2450' Antitwist Rope with woven eye
08773112	3/8" x 3000' Antitwist Rope with woven eye
08773189	3/8" x 2600' IWRC 6x25 Rope with eye
08773190	3/8" x 3000' IWRC 6x25 Rope with eye
08773196	3/8" x 3600' IWRC 6x25 Rope with eye



Antitwist Rope



IWRC Rope

Replacement Parts

Part Number	Description
02291362	Hitch Pin (Outrigger - up/down)
08772016	Clevis Pin with Cotter Pin (Outrigger - left/right)
08772017	Clevis Pin with Cotter Pin (Boom Arm)
08773084	Clevis Pin with Cotter Pin (Foot pin)
08773317	Levelwind Brass Pawl
08773020	Remote and Receiver Kit
02292756	Replacement Remote Only (requires original black chip)
08773110	18gal Fuel Tank Upgrade Kit (to aluminum tank)

For a list of replacement filters, visit condux.com

THE BLUE OX™ CABLE PULLER

THE BLUE OX™ CABLE PULLER SPECIFICATIONS		
	Standard	w/Compressor
Performance		
Maximum Line Pull (lbs)	8,500	
Maximum Speed (fpm)	175	
Engine		
Engine Type	Diesel	
Horsepower	49	74
Electrical System	12 volt	
Fuel Tank (g)	18	22
Bullwheel		
Dimensions	8 inch diameter with 7 grooves	
Rope Reel w/Built in Level Wind		
Antitwist Rope	3000 feet of ⅜ inch	
Hydraulics		
Tool Circuit	7 gpm @ 2000 psi	
Dimensions		
Width	95 inches	
Height	108 inches	
Length	192 inches	
Weight	9,000 Pounds (Wet)	10,500 Pounds (Wet)
Axle	Single	
Air Compressor		
Velocity		210 cfm @ 125 psi
Compressor Hose with Couplings		¾" x 50' air hose reel





APS75 CABLE PULLER

APS75 Cable Puller

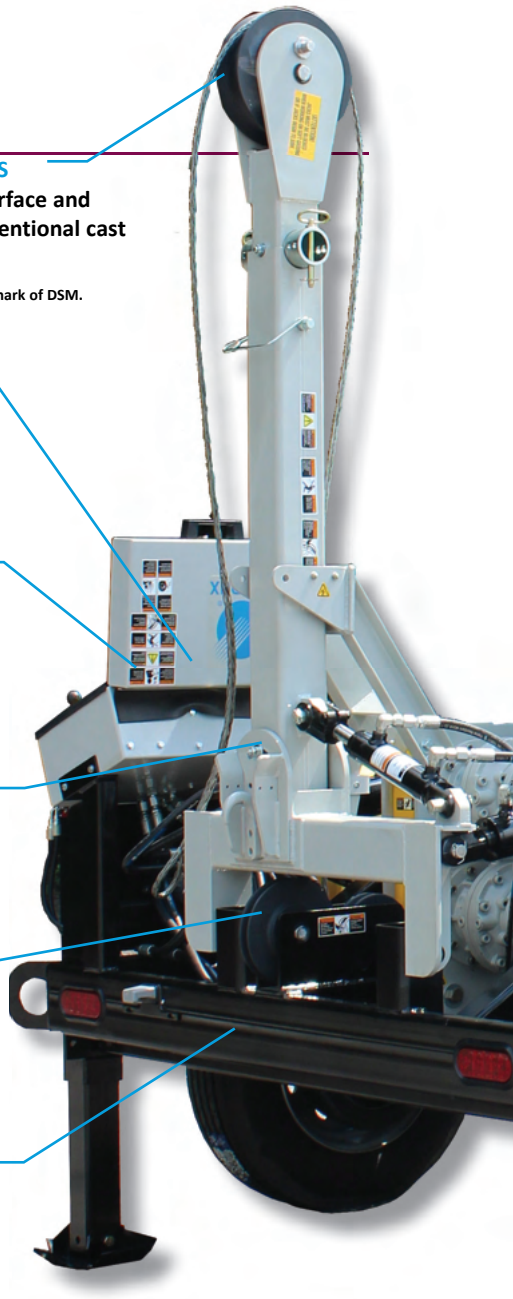
The Condux APS75 Hydraulic Underground Cable Puller provides up to 7,500 lbs of continuous pulling power to tackle some of the toughest pulling applications.

Designed for installing underground cable, the APS75 is completely self-contained and transports easily from jobsite to jobsite. Features like antitwist rope, digital monitoring, a rotating pulling arm and wired remote control make the APS75 an economical choice to meet a wide array of underground cable pulling needs.

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
08773501	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.

PULL TENSION MONITORING integrated into the puller including adjustable limit to control pull limits to manufacturer specs.

ROTATING ARM pivots 30° in either direction aligning easily and accurately.

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

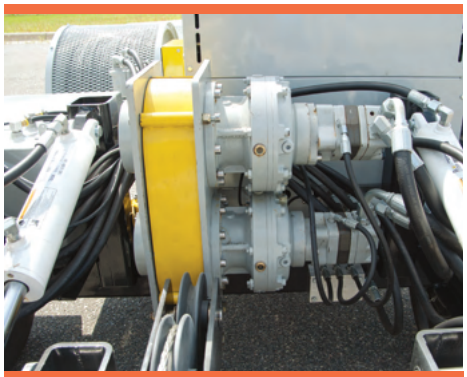
DOT CERTIFIED TRAILER

Features:



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.



THE BRANDS YOU KNOW

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



STABILITY

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

APS75 CABLE PULLER

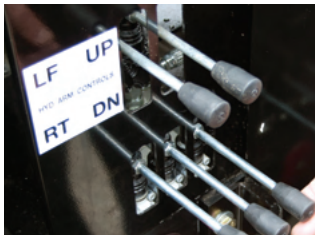
TIER4 Final DIESEL ENGINE provides 49 HP and features easy access maintenance. Water cooled.

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





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

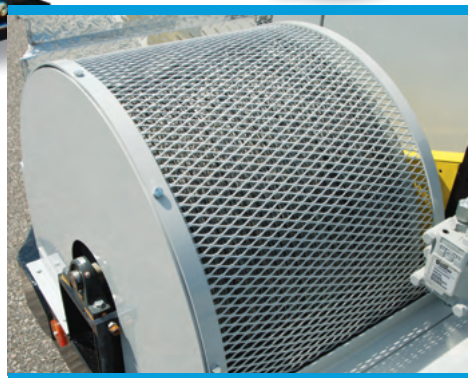


FULLY ENCLOSED UNIT
The APS75 is safe, convenient and reliable.

ON BOARD TOOLBOX
is also fully enclosed.

ELECTRIC BRAKES with a 7 pin round connector standard.

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



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.



ANTITWIST ROPE WITH LEVEL WIND

Comes standard with 2450 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.



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.

APS75 CABLE PULLER





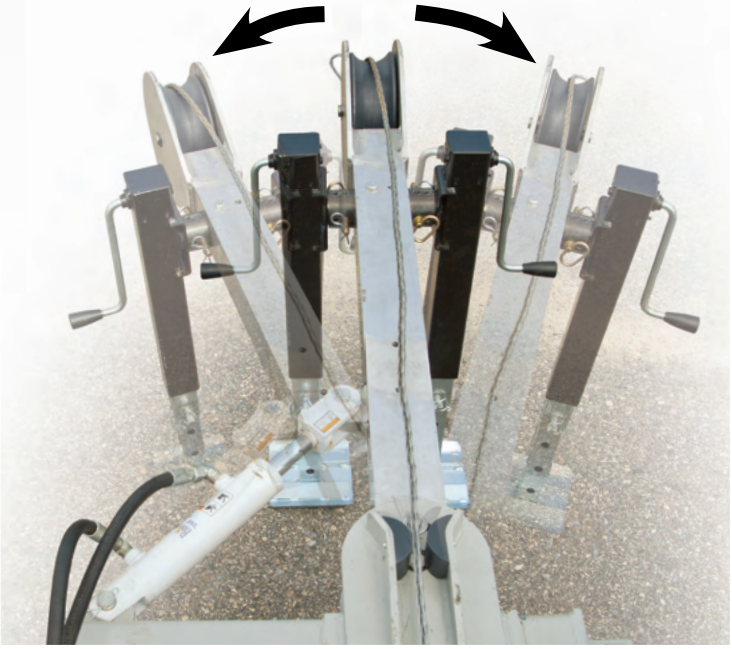
Electronic Information Center

A 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 on the display.

- Control lever for pull in, neutral and payout
- Digital tension readout 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
- Standard USB connection allows users to record and download pulling operations onto a flash drive. Information is downloaded as a .csv file and can be copied onto any computer, then printed, saved and/or emailed.

Other Standard Features:

- Easy to operate control panel
- DOT Certified Trailer
- Electric Brakes with a 7 pin connector standard
- Tension readout integrated in the puller to control pull limits.



APS75 SPECIFICATIONS	
	Standard
Performance	
Maximum Line Pull (lbs)	7500
Maximum Speed (fpm)	175
Engine	
Engine Type	Diesel
Horsepower	49
Electrical System	12 volt
Fuel Tank (g)	18
Bullwheel	
Dimensions	8.4 inch dia with 6 grooves
Rope Reel w/Built in Level Wind	
Antitwist Rope	2450 feet of ⅜ inch
Hydraulics	
Tool Circuit	7 gpm @ 2000 psi
Dimensions	
Width	94 inches
Height	104 inches
Length	176 inches
Weight	6,100 Pounds (Wet)

Aluminum A-Frame

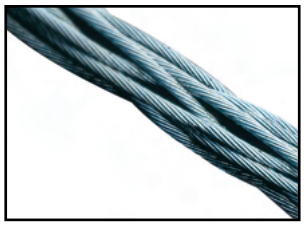
The APS75 A-frame extension adds productivity by adjusting quickly to difficult pulling situations. Added reach for pulling extra slack is ideal for manhole applications and challenging job site conditions.

Part Number	Description
08771350	Aluminum A-frame APS75

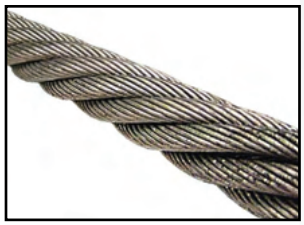


Replacement Rope

Part Number	Description	Break Strength
08771275	⅜" x 2450' Antitwist Rope with woven eye	16,800 lbs.
08773189	⅜" x 2600' IWRC 6x25 Rope with eye	15,100 lbs.



Antitwist Rope



IWRC Rope

Replacement Parts

Part Number	Description
08771341	Boom Arm Transport Retainer Pin
02291018	Boom Arm Extension Lock Pin
08763155	Boom Jack (hand crank)
02289141	Hitch Pin for Boom Jack
08773317	Levelwind Brass Pawl
08773111	Fuel Tank Upgrade Kit (to aluminum tank)

For a list of replacement filters, visit condux.com

FLEXIBLE CABLE GUIDES

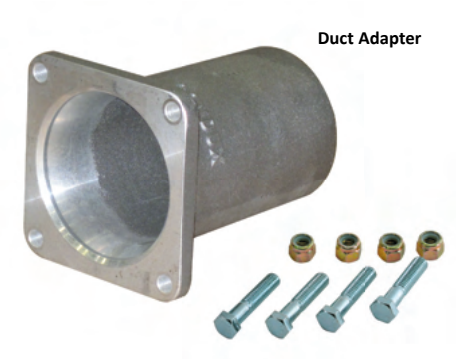


Flexible Cable Guides with Aluminum Adapters

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.

	Diameter		Length	
Part Number	(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

! **ORDER CAREFULLY! This item is made-to-order and is not returnable.**



Duct Adapter

Duct Adapters (includes mounting bolts)

	Diameter		Duct Size		OD		ID	
Part Number	(IN.)	(MM)	(IN.)	(MM)	(IN.)	MM	(IN.)	MM
08931010	2	51	1.00	25	0.90	23	0.72	18
08931013	2	51	1.25	32	1.22	31	1.00	25
08931015	2	51	1.50	38	1.44	37	1.19	30
08934020	4	102	2.00	51	1.91	49	1.65	42
08934030	4	102	3.00	76	2.94	75	2.69	68
08934035	4	102	3.50	89	3.44	80	3.13	87
08935020	5	127	2.00	51	1.98	50	1.75	44
08935030	5	127	3.00	76	2.98	76	2.76	70
08935035	5	127	3.50	89	3.45	88	3.25	83
08935040	5	127	4.00	102	3.93	100	3.30	95
08936040	6	152	4.00	102	3.93	100	3.50	89
08936050	6	152	5.00	127	4.94	125	4.63	118
Replacement Duct Adapters								
08931020	2	51	2.00	51	1.91	49	1.66	42
08934040	4	102	4.00	102	3.94	100	3.69	94
08935050	5	127	5.00	127	4.93	125	4.50	114
08936060	6	152	6.00	152	5.94	151	5.50	143
08988080	8	203	8.00	203	7.94	202	7.62	194



Bell Adapter

Replacement Bell Adapters (includes mounting bolts)

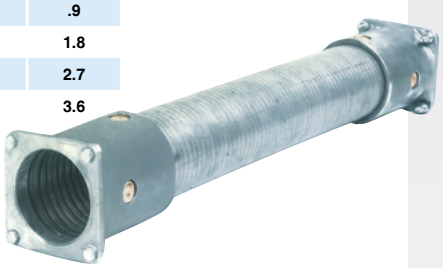
	Size		ID	
Part Number	(IN.)	(MM)	(IN.)	(MM)
08931000	2	51	2.00	51
08934000	4	102	4.00	102
08935000	5	127	5.00	127
08936000	6	152	6.00	152
08988000	8	203	8.00	203

Extensions (includes mounting bolts)

Part Number	Diameter (IN.)	Diameter (MM)	Length (FT.)	Length (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

Part Number	Diameter (IN.)	Diameter (MM)	Length (FT.)	Length (M)
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

ORDER CAREFULLY!
This item is made-to-order and is not returnable.



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)	Bell Size (mm)
08041910	4-way Spreader, Cable Bell Adapter	4	102
08041915	4-way Spreader, Cable Bell Adapter	5	127
08041920	4-way Spreader, Cable Bell Adapter	6	152

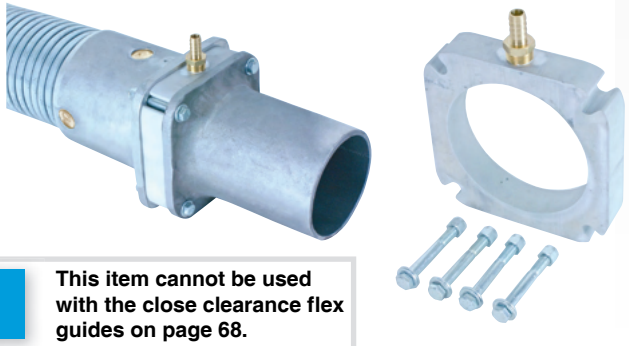


Lube Adapter Plates for Flex Guides

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)	Size (mm)
08934075	Lube Adapter Plates for Flex Guides	4	102
08935075	Lube Adapter Plates for Flex Guides	5	127
08936075	Lube Adapter Plates for Flex Guides	6	152

This item cannot be used with the close clearance flex guides on page 68.



5 or 6 Gallon Lube Pump

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

Part Number	Description
08931100	5 or 6 Gallon Lube Pump



FLEXIBLE CABLE GUIDES

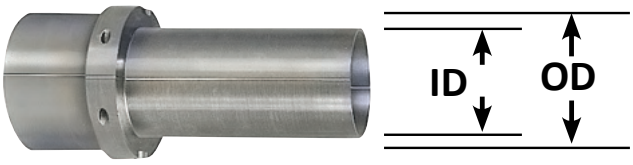


! **ORDER CAREFULLY! This item is made-to-order and is not returnable.**

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. **Close Clearance Flexible Cable Guides require use of a Steel Duct Adapter, which must be ordered separately.**

	Diameter		Length	
Part Number	(IN.)	(MM)	(FT)	(M)
08040109	4	102	9	2.28
08041009	5	127	9	2.28
08044509	6	152	9	2.28



Steel Duct Adapter

Steel Duct Adapters (required for use of close clearance flex guides)

	Duct Adapter Diameter		Duct Size		OD		ID	
Part Number	(IN.)	(MM)	(IN.)	(MM)	(IN.)	MM	(IN.)	MM
08040300	4	102	3.00	76	2.93	74	2.68	68
08040400	4	102	3.25	83	3.06	74	2.81	71
08040600	4	102	3.50	89	3.43	87	3.18	81
08040800	4	102	4.00	102	3.81	97	3.62	92
08087200	4	102	5.00	127	4.81	122	4.63	118
08040900	5	127	4.00	102	3.87	98	3.69	94
08041300	5	127	5.00	127	4.81	122	4.62	117
08041200	5	127	6.00	152	5.81	148	4.62	117
08087000	6	152	5.00	127	4.81	122	4.62	117
08086800	6	152	6.00	152	5.81	148	5.62	143



Close Clearance Flex Guide Extensions

	Diameter		Length	
Part Number	(IN.)	(MM)	(FT)	(M)
08040203	4	102	3.5	1.1
08041103	5	127	3.5	1.1
08044603	6	152	3.5	1.1

Jamb Skid

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

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 1¼" (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 to 8" (203 mm). 10,000 lbs. (44,480 N) cable tension load rated.

NOTE: Order base section, extension, and sheave separately for a complete Jamb Skid unit. Sheave pin and locking pins are included with the base section.

Part Number	Description	Manhole Height Range (in)	(m)
08097000	58" (1.17 m) (Base Section)		
08097001	43" (1.09 m) Extension	63–80	1.24 - 2.03
08097002	76" (1.93 m) Extension	78–109	1.98 - 2.77
08097003	109" (2.8 m) Extension	107–138	2.72 - 3.51

Replacement Pins

Part Number	Description
08097040	1¼" (32 mm) diameter sheave pin
08097060	Locking Pin Kit (includes two locking pins)

Sheaves

Refer to the chart on page 75 for specifications on sheave products for use with the Condux Jamb Skid.

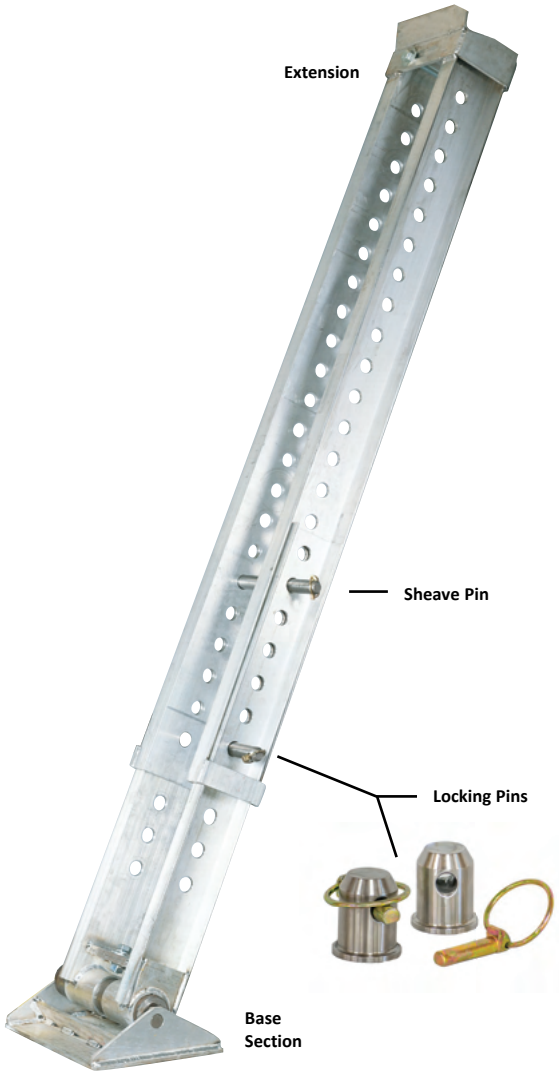
20,000 lbs. Jamb Skid

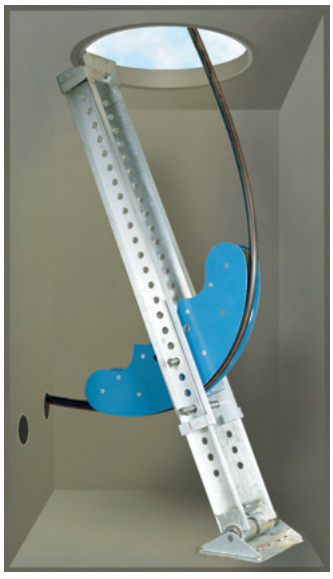
Constructed of steel and rated for 20,000 lbs (88,964 N) cable tension. Base section includes sheave pin and locking pins.

Part Number	Description
08097509	Base Section
08097532	43" (1.09 m) Extension
08097529	76" (1.93 m) Extension
08097508	109" (2.8 m) Extension

Sheaves for 20,000 lbs. Jamb Skid

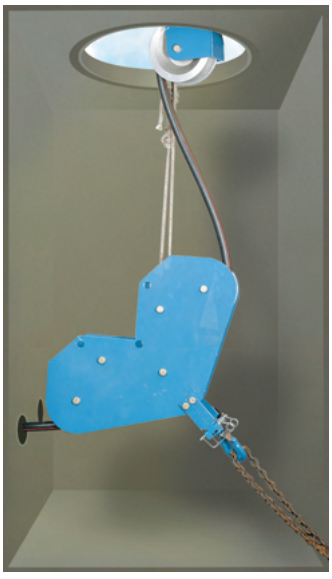
Part Number	Sheave Size
08097504	8 x 11 in (203 x 279 mm)





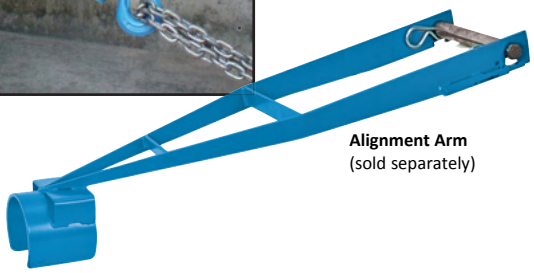






CABLE GUIDES





Alignment Arm
(sold separately)

Heavy Duty Hanger Sheaves

Tie off in the manhole to guide cable into the duct. 12,000 lbs. (53,378 N) cable tension load capacity. Includes light duty arm which conveniently stores inside the heavy duty arm when not in use. Also may be used with alignment arm for cable removal (5" sheaves only). Alignment arm sold separately.

Part Number	Sheave Size (in)	(mm)
08042800	5x11	127x279
08042830	6x11	152x279
08042840	8x11	203x279
08045901	Alignment Arm for 5" (127 mm) Sheave	



Replacement Parts for Heavy Duty Hanger Sheaves



Hanger Arm w/Hook



Second Arm



Axle



Sheave

Sheave Size (in)	Sheave Size (mm)	Hanger Arm w/Hook Part Number	Second Arm Part Number	Axle Part Number	Sheave Part Number
5 x 11	127 x 279	08042801	08042809*	02291808	08042734
5 x 20	127 x 508	08042811	08042819*	02291808	08042735
8 x 11	203 x 279	08042841	08042849*	02291809	08042738

*1,000lb (4,448N) load rating

4,000 lb. Hooked Hanger Sheaves

Tie off in manhole to guide cable into and out of duct. 4,000 lbs (17,793 N) cable tension load capacity. For less demanding cable pulling applications than Condux heavy duty sheaves. Replacement sheaves available; see chart with specifications on page 75.

- Steel welded frame
- Nylon cable protectors
- Lightweight
- Cast aluminum sheaves
- Forged hook with 1.12" (28.45 mm) opening



5 x 11

4,000 lb. Hooked Hanger Sheaves

Part Number	Sheave Size (in)	(mm)	Sheave Material
08042611	5 x 11	127 x 279	Aluminum
08042610	5 x 11	127 x 279	Nylatron

08042670 Second arm for 8"x26" (203 x 660 mm) sheave 1,000 lb (4448 N) rating for hanging only

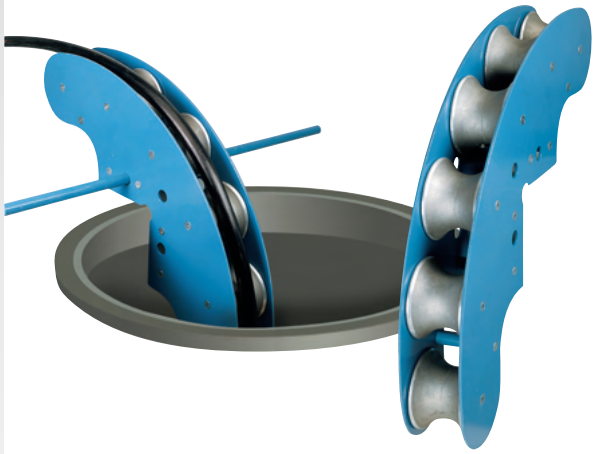








CABLE GUIDES



Heavy Duty Quadrant Block

A series of six cast aluminum or six Nylatron® sheaves on bronze bearings allow cable to make a gradual 90° turn for easy pulling through manhole opening. Can also be suspended in manhole to provide alignment to duct run. Support Bar sold separately (see pg. 82). Replacement Sheaves available. See Specifications and Selection Charts on page 75.

		Size		Radius		Load Capacity	
Part Number	Nylatron Part Number	(IN.)	(MM)	(IN.)	(MM)	(LBS)	(N)
08539100	08539110	4	102	24.25	616	4,800	21,351
08539200	08539210	5	127	24.25	616	4,800	21,351
	08539650	6	152	26.00	660	10,000	44,482
08539710	08539700	8	200	37.75	959	10,000	44,482

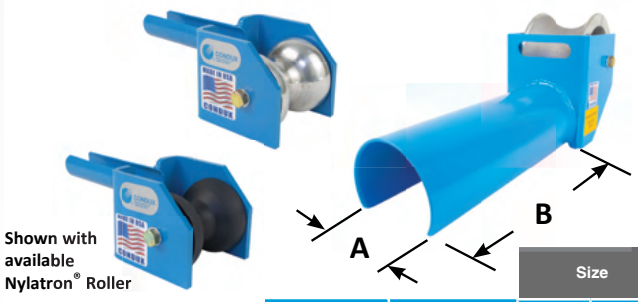


Hanger Arms

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

Part Number	Used With
08042425	4" HD Quad Block
08539240	5" HD Quad Block
08539660	6" HD Quad Block
08082885	8" HD Quad Block

1.5" (38 mm) Cable Feeding Sheave



Shown with available Nylatron® Roller

Cable Feeding Sheaves

Plugs into conduit in manhole wall, guiding cable safely into the conduit regardless of the pulling angle. Sizes 3.5" and larger have a handle slot in the frame for easy carrying. Replacement Sheaves available. See Specifications and Selection Charts on page 75.





		Size		Tube Slot Width (A)		Tube Length (B)		Tube I.D.		Tube O.D.		Load Capacity	
Part Number	Nylatron Part Number	(IN.)	(MM)	(IN.)	(MM)	(IN.)	MM	(IN.)	MM	(IN.)	MM	(LBS)	(N)
08617312	-	1.25	32	0.88	22	5	127	1.06	27	1.19	30	1,000	4,448
08617215	08617415	1.50	38	1.04	26	5	127	1.26	32	1.44	37	1,500	6,672
08617220	08617420	2	51	1.38	35	6	152	1.69	43	1.88	48	2,600	11,565
08617225	08617425	2.50	63	1.44	37	8	203	2.14	54	2.38	60	2,600	11,565
08617230	08617430	3	76	2.24	57	12	305	2.63	67	2.87	73	4,800	21,351
08617270*	-	3	76	2.24	57	12	305	2.50	63	2.75	70	4,800	21,351
08617200	08617440	4	102	3.00	76	12	305	3.50	89	3.88	100	6,500	28,913
08617340*	08617441*	4	102	2.98	76	12	305	3.23	82	3.65	93	6,500	28,913
08617250	08617450	5	127	3.75	95	14	356	4.50	114	4.90	125	6,500	28,913
08617260	08617460	6	152	4.50	114	14	356	5.38	137	5.90	150	6,500	28,913
08617360*	08617461*	6	152	4.50	114	14	356	5.00	127	5.56	141	6,500	28,913
08617280	08617480	8	203	6.00	152	14	356	7.07	180	7.81	198	6,500	28,913

*Fits sch 80 pipe. NOTE: Nylatron® is a registered trademark of DSM

60 Degree Quad Block

A series of six 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.

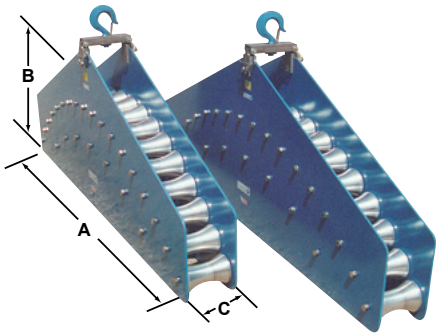
Part Number	Size (in)	(mm)
08539220	8	203



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 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. (44,482 N) capacity. Replacement sheaves available, contact factory for information. **Item is not returnable.**

Part Number	Description	A (in)	A (mm)	B (in)	B (mm)	C (in)	C (mm)
08094500	Fairlead Quadrant Block w/ aluminum rollers	96	2438	36	914	9	229
08094510	Fairlead Quadrant Block w/ Nylatron rollers	96	2438	36	914	9	229

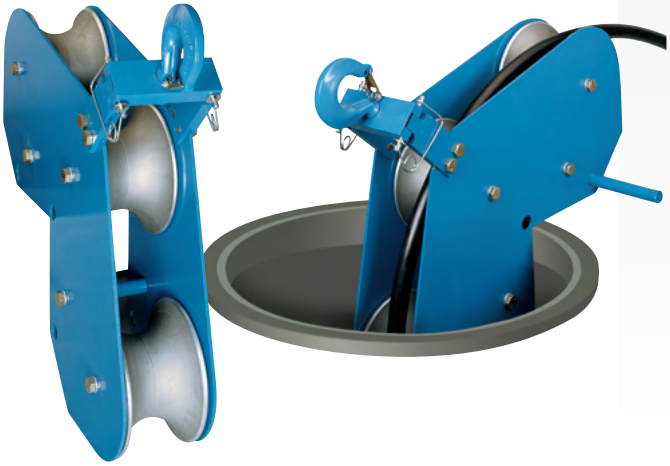


Three Sheave Cable Guide

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. (44,482 N) cable tension load capacity. Support bar sold separately (see pg. 74). Replacement sheaves available; see Specifications and Selection Charts on page 75.

Part Number	Nylatron Part Number	Size (IN.)	Size (MM)
08539600	08539610	6	152
08539800*	08539810*	8	203

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



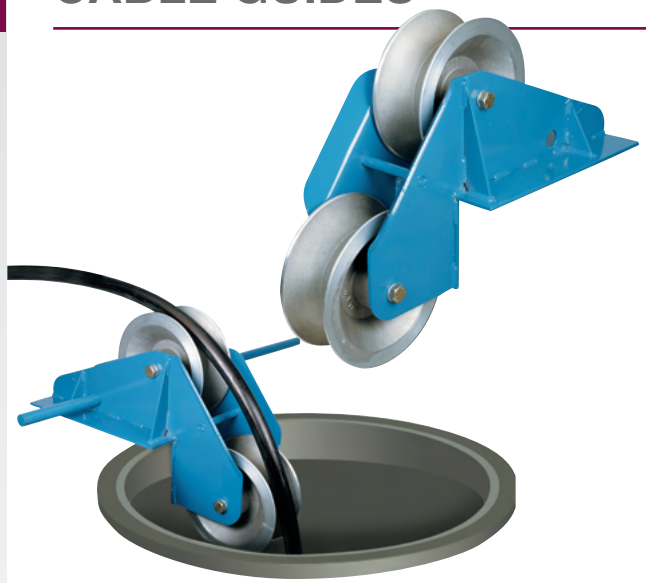
Mini Corner Cable Guide

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. (44,482 N) cable tension load capacity. Replacement sheaves available, contact factory for information.

Part Number	Description
08045000	Mini Corner Cable Guide
08045010	Mini Corner Cable Guide w/o hook



CABLE GUIDES



Corner Cable Guides

Aluminum and Nylatron® sheaves for pulling cable into manholes. 5,000 lbs. (22,241 N) cable tension load capacity. See Specifications and Selection Charts on page 75 for Replacement Sheaves. Support bar sold separately (see below).

Part Number	Nylatron Part Number	Size (IN.)	Size (MM)
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. Bend radius of 20" (508 mm). Rugged, high-impact plastic.

Part Number	Description	ID (in)	ID (mm)	OD (in)	OD (mm)
08042100	Plastic Bending Shoe	3.19	81	3.44	87



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, 3/8" (9 mm) Alloy Links, 7,100 lbs. (31,581 N) capacity
08066300	8' (2.4 m) Chain, Double Hook, 3/8" (9 mm) Alloy Links, 7,100 lbs. (31,581 N) capacity

Aluminum Split Bells

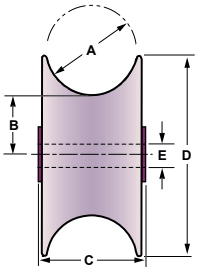
Plugs into conduit in manhole wall, guiding cable safely into the conduit regardless of the pulling angle.

	Size		Tube Length		Tube I.D.		Tube O.D.	
Part Number	(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
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	305	5.625	143	5.875	149
08041570	8	203	12	305	7.500	191	7.875	200



Replacement Sheaves

Refer to this chart for specifications on sheave sizes for these products: 4,000 lb. (17,793 N) Hooked Hanger Sheaves, Cable Feeding Sheaves, Corner Cable Guides, Heavy Duty Quadrant Blocks, Three Sheave Cable Guides, and Jamb Skid.





Sheaves Specifications

		Sheave Size		Maximum Cable O.D. (A)		Min. Bending Radius (B)		Max. Sheave Width (C)		Maximum Sheave O.D. (D)		Shaft Diameter (E)	
Part Number	Nylatron Part Number	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)	(IN.)	(MM)
08539308	08539304	1 x 3	25 x 76	1.50	38	0.75	19	3.19	81	3.00	76	0.63	16
08539136	08539137	4 x 7	102 x 178	4.00	102	2.25	57	4.35	110	7.00	178	1.25	32
08539236	08539237	5 x 7	127 x 178	5.00	127	2.25	57	4.93	125	7.00	178	1.25	32
08046711	08046712	4 x 11	102 x 279	4.00	102	3.75	95	4.94	125	11.00	279	1.25	32
08046811	08046812	5 x 11	127 x 279	5.00	127	3.25	83	5.94	151	11.00	279	1.25	32
08087811	08087812	6 x 11	152 x 279	6.00	152	3.13	79	6.94	176	11.00	279	1.25	32
08087911	08087912	8 x 11	203 x 279	8.25	210	2.75	70	8.94	227	11.00	279	1.25	32

4,000 lb Sheaves

		Sheave Size		Maximum Cable O.D. (A)		Min. Bending Radius (B)		Max. Sheave Width (C)		Maximum Sheave O.D. (D)		Shaft Diameter (E)	
Part Number	Nylatron Part Number	(IN.)	(MM)	(IN.)	(MM)	(IN.)	MM	(IN.)	MM	(IN.)	MM	(IN.)	(MM)
08042612	08046812	5 x 11	127 x 279	5.00	127	3.25	83	5.94	151	11.00	279	1.25	32

NOTE: Nylatron® is a registered trademark of DSM.

FIBER OPTIC CABLE BLOWING METHOD



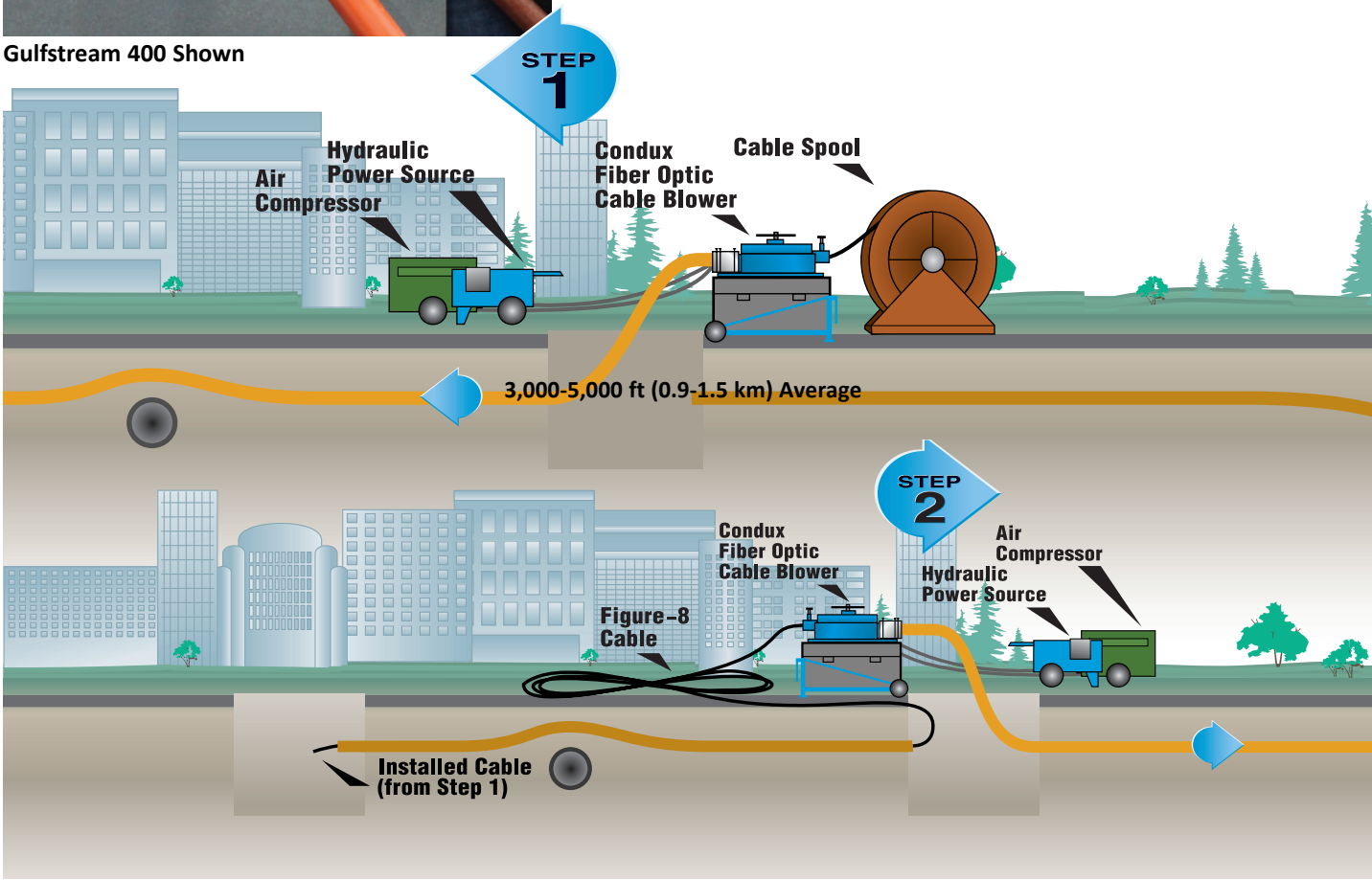
Gulfstream 400 Shown

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 more evenly distributed along the length of the cable.



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.

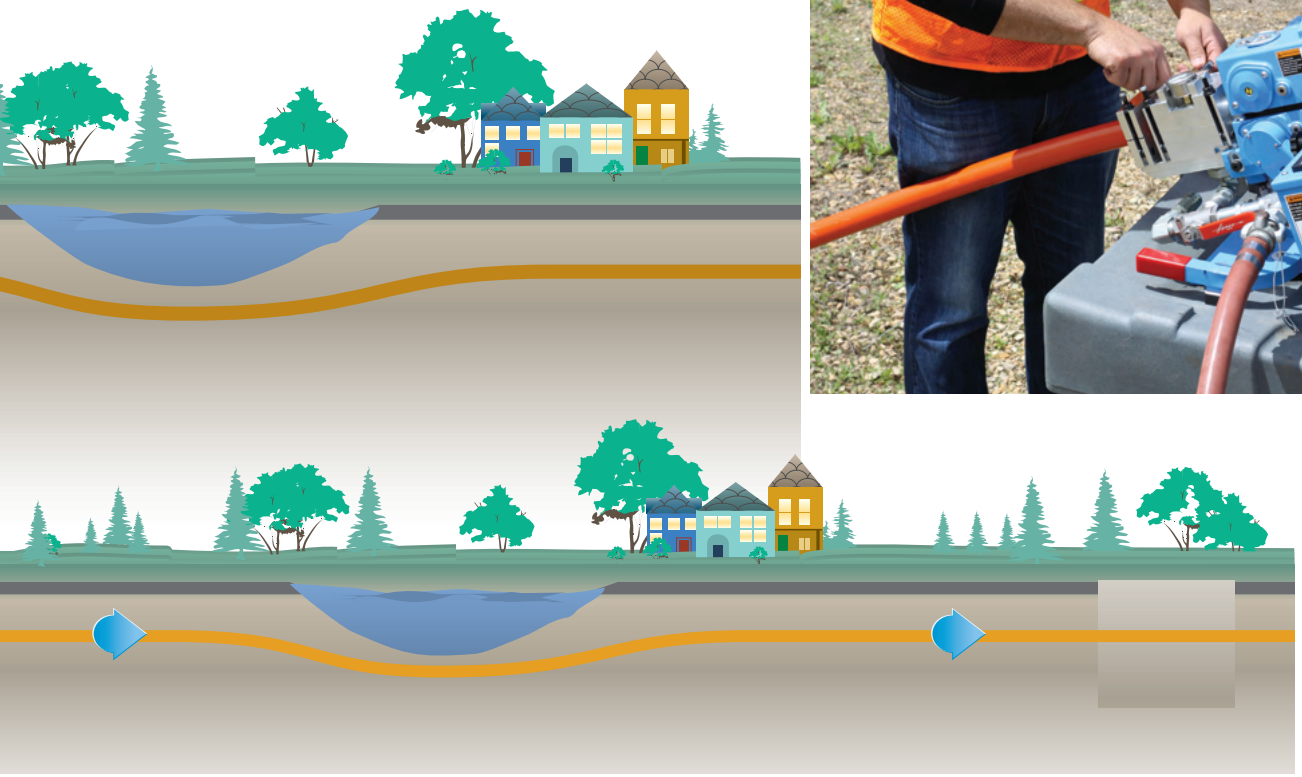
Second, the cable is prepared for installation. A cable carrier is attached to the end of the fiber optic cable. Corresponding size cable carriers are available to match the specific duct ID. The cable is fed through the cable blower and into the duct.

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

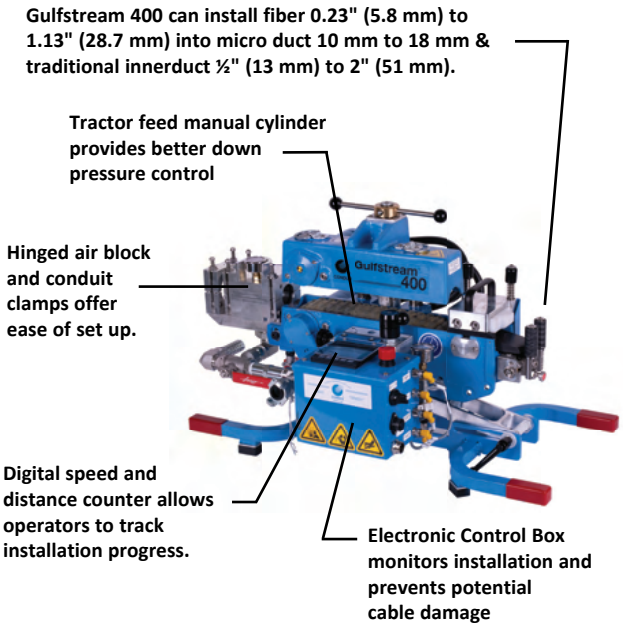
Fourth, the blowing process begins. Pressure (compressed air) is applied to the duct behind the cable carrier. As the pressure tries to equalize, it seeks out the path of least resistance and creates a pushing force on the cable carrier, causing forward motion. The moving cable carrier, in turn, exerts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

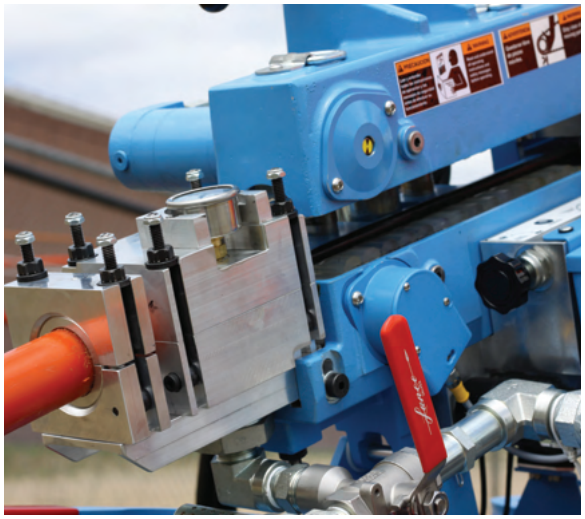
Meanwhile, an additional pushing force is applied to the cable by a hydraulic powered belt drive on the cable blower. Use of a hydraulic belt drive reduces air consumption requirements from the air compressor. Plus, the push force from the belt drive provides cable slack, reduces back tension and keeps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





GULFSTREAM™ 400







Gulfstream 400 Fiber Blower

The Condux Gulfstream™ 400 Fiber Optic Cable Blower is ideal for 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.

Fast

Install fiber optic cable up to 300 fpm (100 mpm) (recommended 180-220 fpm (55-67 mpm)). A carrier can be attached to the front of the cable to help propel the fiber down an air-tight sealed duct. Because air flow and belt drive speed can be adjusted, you can install fiber at the rate which best suits your application.

Total Control

The Condux Gulfstream 400 Fiber Optic Cable Blower features a long belt grip area for less stress on the cable, and a manual cylinder on the belt 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 are detected.

Versatility

The Condux Gulfstream 400 Fiber Optic Cable Blower operates efficiently with most common combinations of cable and innerduct sizes. The Condux Gulfstream 400 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 traditional innerduct ½" (13 mm) to 2" (51 mm) with metric sizes available.

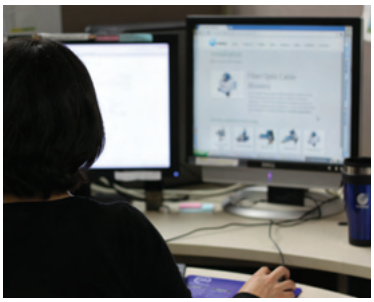
The correct size cable seals and venturi must be determined for the cable being installed. Also necessary are the correct size innerduct seals, clamps and carrier for the innerduct being occupied.

Use the charts on page 90-91 to determine the correct size components for your specific cable and innerduct installation project.

CE

Superior Service & Support

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



Smart Design, Easy to Operate

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

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



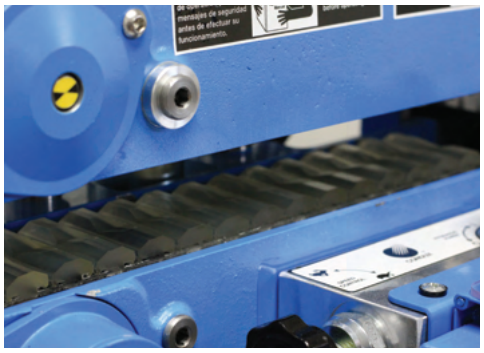
Lightweight & Portable, Everything's Inside

The Condux Gulfstream 400 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.





GULFSTREAM™ 400



Belt Drive

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

Part Number	Description
08780904	Gulfstream 400 Replacement Belt

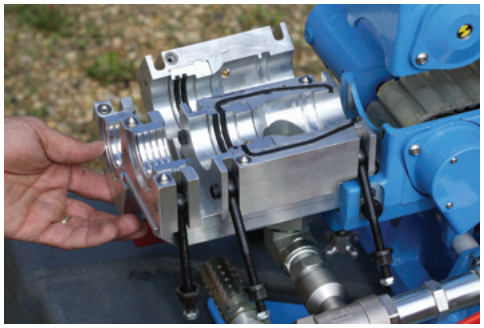


Advanced Electronic Controls

Standard system monitors and displays the cable and belt drive speeds. When using traction control it will automatically shut off the blower in these conditions:

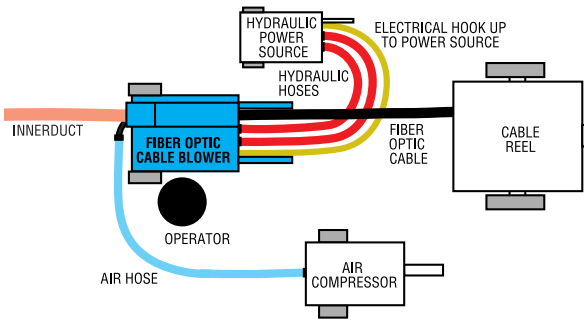
- Over pressure limit
- Slippage
- Cable stoppage

Part Number	Description
08781020	Electronic Control Box
08781022	Electronic Control Box & Transducer Update
08781023	Transducer
02290843	ECB Fuse



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 belt 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.

Part Number	Description
08780384	Hydraulic Hose with flow control manifold

The Condux Gulfstream™ 400 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 Kit." Complete the order by specifying the cable pack(s) and duct pack(s) necessary to meet your exact job requirements. See pages 82-83 for full descriptions. You may order additional cable and duct packs at any time.

Part Number	Description
08782000	Fiber Optic Cable Blower
08782000INTL	Fiber Optic Cable Blower w/ Int'l Fittings
08782010	Fiber Optic Cable Blower Package 1A (includes Cable Packs #1-7 and Duct Packs #2-5)
08782008	Fiber Optic Cable Blower Package 1B (includes Cable Packs #1-7 and Duct Packs #4, 5, 6)

Mechanical Version (No Electronic Control Box or Sensors)

Part Number	Description
08782004	Fiber Optic Cable Blower
08782004INTL	Fiber Optic Cable Blower w/Int'l Fittings
08782046	Fiber Optic Cable Blower Package 2A (includes Cable Packs #1-7 and Duct Packs #2-5)
08782048	Fiber Optic Cable Blower Package 2B (includes Cable Packs #1-7 and Duct Packs #4, 5, 6)
08782054	Fiber Optic Cable Blower Package 2C (includes Cable Packs #1-7 and Duct Packs #9, 10, 14)
08782056	Fiber Optic Cable Blower Package 2D (includes Cable Packs #1-7 and Duct Packs #14, 15, 17)

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

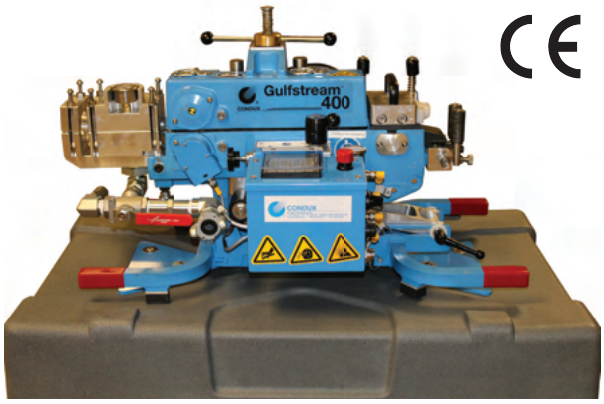
Cable Packs include Cable Grips (for end of cable), Pneumatic Venturies and Cable Seals. See page 83 for ordering information.

Part Number	Description
08780393	Cable Pack #1 — 0.23-0.34 in (5.8-8.8 mm)
08780394	Cable Pack #2 — 0.35-0.48 in (8.9-12.2 mm)
08780512	Cable Pack #3 — 0.49-0.60 in (12.4-15.2mm)
08780395	Cable Pack #4 — 0.61-0.73 in (15.3-18.5 mm)
08780513	Cable Pack #5 — 0.74-0.85 in (18.8-21.6mm)
08780396	Cable Pack #6 — 0.86-0.97 in (22.0-24.5 mm)
08780514	Cable Pack #7 — 0.98-1.13 in (24.9-28.7 mm)
08781117	Cable Pack #8 — 10.4 x 5.5 mm (Nylatron Venturi for flat fiber cables)
08781118	Cable Pack #9 — 15.2 x 6.7 mm (Nylatron Venturi for flat fiber cables)

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

Duct Packs include Cable Grip (for end of innerduct), Cable Carrier, Innerduct Clamps, Innerduct Seals, Innerduct Pulling Eye & Foam Carriers. See page 82 for ordering information.

Part Number	Description
08780795	Duct Pack #1 — .5" SDR 11/13.5
08780680	Duct Pack #2 — .75" (27 mm) 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
08781153	Duct Pack #8 — 22 mm
08780240	Duct Pack #9 — 25 mm
08780385	Duct Pack #10 — 32 mm
08780387	Duct Pack #11 — 36 mm
08780388	Duct Pack #12 — 37 mm
08780389	Duct Pack #13 — 1.25" TRUE
08780390	Duct Pack #14 — 40 mm
08780391	Duct Pack #15 — 42 mm
08780545	Duct Pack #16 — 44 mm
08780575	Duct Pack #17 — 50 mm



Common Parts Kit:

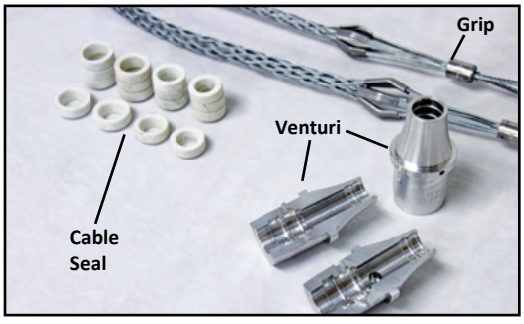
(included with all blower units)

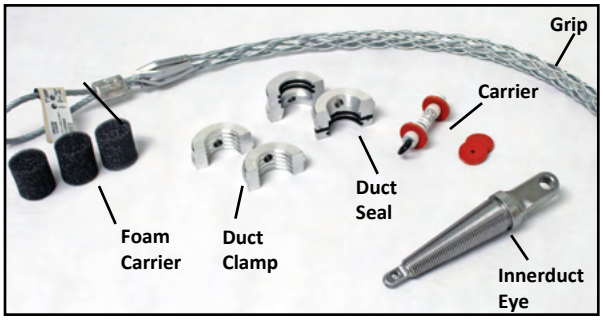
Part Number	Description
08780120	Common Parts Kit (included with all ECB units)
08780952	Common Parts Kit (for Mechanical Version)

Kits include the following:

02290222	Small Case
08780506	Foam Insert for Small Case
02284600	Small Divided Case
02288774	Parts Label for Small Divided Case
08780126	O-Ring Seal Kit
02286416*	2 Pin Extension Cord
08230800	Canvas Bag
08017000	5/8" x 600 lb Swivel (16 mm x 2,669 N)
08780424	Capscrew Set (12-M04-07)
08761248*	Power Cord Assembly with Lighter Plug
02289620	Wrench, 3/4"
02290168	Standard & Metric Hex Key Set
02283800	Hex Ball Driver 3/32"
02288787	Hex Ball-Point Driver 2.5mm
02291090	9/16" Comb-Ratchet Wrench
08781170	Venturi Air Plug

*Not included in kit 08780952





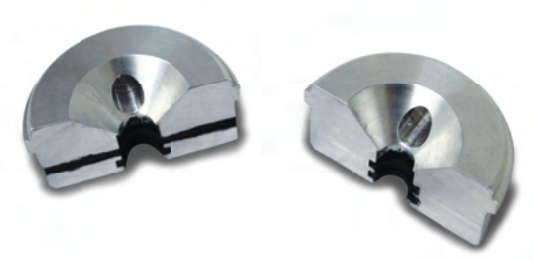
GULFSTREAM™ 400 DUCT PACKS

Gulfstream™ 400 & Mini-Blower Pusher Duct Packs

Pack	Duct Pack		Duct Clamp		Duct Seal		Carrier		Foam Carrier		Cable Grip		Innerduct Eye
	Duct Size	Part Number	Duct OD (mm)	Part Number	Duct OD (mm)	Part Number	Carrier OD (mm)	Part Number	Carrier OD (mm)	Part Number	Duct OD (mm)	Part Number	Part Number and ID Range (mm)
1	1/2" SDR 11-13.5	08780795	0.840" (21.3)	08780791	0.840" (21.3)	08780786	0.688" (17.50)	08780793	0.75" (19.0)	08078300	0.75-0.99" (19-25)	08643131	08913342 .71-.77" (18-20)
2	3/4" SDR 11-13.5	08780680	1.050" (26.6)	08780682	1.050" (26.6)	08780685	0.750" (19.0)	08780690	0.75" (19.0)	08078300	1.00-1.24" (25.4-31.5)	08643137	08761840 .71-.87" (18-22)
3	1" SDR 11/13.5	08780386	1.315" (33.4)	08780369	1.315" (33.4)	08780307	1.121" (28.5)	08761250	1.25" (31.8)	08761439	1.25-1.49" (32-38)	08643143	08913343 .75-1.00" (19-25)
4	1.25" SDR 11/13.5	08780392	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	08761842 1.06-1.43" (27-36)
5	1.5" SDR 11/13.5	08780397	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	08761844 1.37-1.68" (35-43)
6	2" SDR 11/13.5	08780930	08780920 2" Duct Adapter				2.023" (51.4)	08761265	2.00" (50.8)	08761442	2.00-2.49" (50.8-63.2)	08643155	08761846 1.80-2.19" (46-56)
7	20mm	08781120	0.787" (20.0)	08781122	0.787" (20.0)	08781121	0.688" (17.5)	08780793	1.00" (25.4)	08761444	0.75-0.99" (19.0-25.1)	08643131	08914007 .551-.813" (14-20)
8	22mm	08781153	0.866" (22.0)	08781154	0.866" (22.0)	08781155	0.688" (17.5)	08780793	1.00" (25.4)	08761444	0.75-0.99" (19.0-25.1)	08643131	08914007 .551-.813" (14-20)
9	25mm	08780240	0.984" (25.0)	08780099	0.984" (25.0)	08780134	0.787" (20.0)	08780230	1.25" (31.8)	08761439	1.25-1.49" (31.8-37.8)	08643137	08761840 .71-.87" (18-22)
10	32mm	08780385	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	08761842 1.06-1.43" (27-37)
11	36mm	08780387	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	08761842 1.06-1.43" (27-37)
12	37mm	08780388	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	08761842 1.06-1.43" (27-37)
13	1.25" TRUE	08780389	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	08761842 1.06-1.43" (27-37)
14	40mm	08780390	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	08761842 1.06-1.43" (27-37)
15	42mm	08780391	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	08761844 1.37-1.68" (35-43)
16	44mm	08780545	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	08761844 1.37-1.68" (35-43)
17	50mm	08780575	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	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	End Stop Connector
10	08764140	08764142	08764143	08566325
12	08764110	08764112	08764113	08566327
12.7	08764150	08764151	08764153	08566338
14	08764120	08764122	08764123	08566328
16	08764130	08764132	08764133	08566329
18	08781110	08781106	08781101	08566334



Gulfstream™ 400 Cable Packs

Pack	Cable Pack		Venturi		Cable Seal		Cable Grip	
	Cable OD	Part Number	Cable OD	Part Number	Cable OD	Part Number	Cable OD	Part Number
1	0.23" - 0.34" (5.8 - 8.8 mm)	08780393 Pack #1	0.23" - 0.34" (5.8 - 8.8 mm)	08780281	0.23" - 0.28" (5.8 - 7.2 mm)	08780406	0.21" - 0.35" (5.3 - 8.9 mm)	08643754
					0.29" - 0.34" (7.3 - 8.8 mm)	08780407		
2	0.35" - 0.48" (8.9 - 12.2 mm)	08780394 Pack #2	0.35" - 0.48" (8.9 - 12.2 mm)	08781115	0.35" - 0.42" (8.9 -10.7 mm)	08761424	0.32" - 0.48" (8.1 - 12.2 mm)	08643755
					0.43" - 0.48" (10.8 -12.2 mm)	08761425		
3	0.49" - 0.60" (12.3 - 15.2 mm)	08780512 Pack #3	0.49" - 0.60" (12.3 - 15.2 mm)	08781116	0.49" - 0.55" (12.3 -14.0 mm)	08761426	0.42" - 0.61" (10.7 - 15.5 mm)	08643756
					0.56" - 0.60" (14.1 -15.2 mm)	08761427		
4	0.61" - 0.73" (15.3 - 18.5 mm)	08780395 Pack #4	0.61" - 0.73" (15.3 - 18.5 mm)	08780284	0.61" - 0.67" (15.3 -17.0 mm)	08761428	0.53" - 0.74" (13.5 - 18.8 mm)	08643757
					0.68" - 0.73" (17.1 -18.5 mm)	08761429		
5	0.74" - 0.85" (18.6 - 21.6 mm)	08780513 Pack #5	0.74" - 0.85" (18.6 - 21.6 mm)	08780285	0.74" - 0.79" (18.6 -20.1 mm)	08761430	0.64" - 0.87" (16.3 - 22.1 mm)	08643758
					0.80" - 0.85" (20.2 -21.8 mm)	08761431		
6	0.86" - 0.97" (21.7 - 24.6 mm)	08780396 Pack #6	0.86" - 0.97" (21.7 - 24.6 mm)	08780286	0.86" - 0.92" (21.7 -23.4 mm)	08761432	0.75" - 1.00" (19.1 - 25.4 mm)	08643759
					0.93" - 0.97" (23.5 -24.6 mm)	08761433		
7	0.98" - 1.13" (24.7 - 28.7 mm)	08780514 Pack #7	0.98" - 1.13" (24.7 - 28.7 mm)	08780446	0.98" -1.04" (24.7 -26.4 mm)	08761434	1.00" - 1.24" (25.4 - 31.5 mm	08643137
					1.05" -1.13" (26.5 -28.7 mm)	08761435		
8	10.4 x 5.5 mm	08781117	(Nylatron venturi for flat fiber cables)					
9	15.2 x 6.7 mm	08781118	(Nylatron venturi for flat fiber cables)					

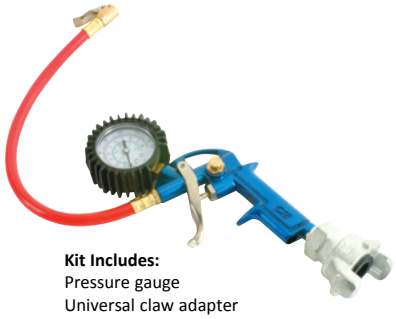
Compressed Air Recommendations

For best installation results, we recommend a 375 CFM compressor or larger with at least 100 psi. A compressed air water separator and aftercooler are also highly recommended-- whether built-in to the compressor or as an additional unit in line between the compressor and fiber blower.

Condux Gulfstream™ Series Comparison Chart

	Cable OD				Duct Size			
	Millimeters		Inches		Millimeters		Inches	
Condux Fiber Blower	Min	Max	Min	Max	Min	Max	Min	Max
GS 150	1	2.5	0.049	0.098	5	8	0.197	0.315
GS 250	2.5	8	0.098	0.315	5	18	0.197	0.709
GS 300	2.5	8	0.098	0.315	5	18	0.197	0.709
GS 350+	4	16.5	0.157	0.65	8	42	0.315	1.653
Mini-Blower/Pusher	5.8	12.7	0.23	0.50	10(M) or 12.7(T)	18(M) or 50.8(T)	0.50	2
GS 400	6	28.7	0.25	1.125	10	50	0.398	2
GS 400XL	12.5	39	0.49	1.54	32	63	1.25	2

GULFSTREAM™ 400 MICRODUCT ACCESSORIES

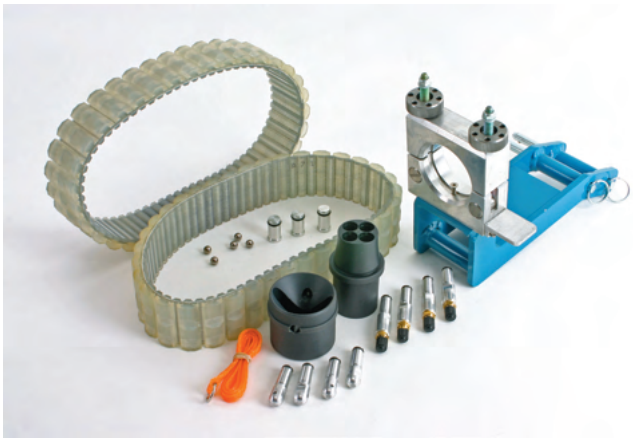


Kit Includes:
Pressure gauge
Universal claw adapter

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. (Required and sold separately from Micro Duct Installation Kits)

Part Number	Description
08780705	Micro Duct Pressure Gauge
08780705INTL	Micro Duct Pressure Gauge, international

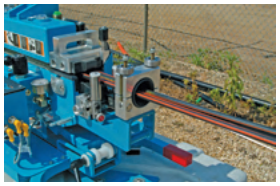


Multiple Micro Duct Installation Kits

Condux Multiple Micro Duct Installation Kits allow you to install up to 5 - 10/8 micro ducts, 4 - 12/10 micro ducts or other multiple micro duct configurations into an existing innerduct when used with the Condux Gulfstream™ 400 Fiber Optic Cable Blower. Microduct pressure gauge kit is required (sold separately).

Part Number	Description
08780710	10/8 mm Multiple Micro Duct Installation Kit
08780712	12/10 mm Multiple Micro Duct Installation Kit
08780770	12.7 mm Multiple Micro Duct Installation Kit
08780797	16 mm Multiple Micro Duct Installation Kit
08780878	14/10 mm Multiple Micro Duct Installation Kit
08780747	1-16 mm & 2-12/10 mm Multiple Micro Duct Installation Kit
08780723	Flat Belt for Flat Fiber





10/8 mm Kit (up to 5) 08780710

Part Number	Description
08645705	Cable Grip
08780720	Lower Belt
08780721	Upper Belt
08780724	Rear Guide Assembly
08780735	5-Hole Venturi
08780739	Venturi Plugs
08780740	Duct-Fill Plugs
08780741	Duct-Cap Plugs
08780742	Rear Guide
08780748	Proofing Balls

12/10 mm Kit (up to 4) 08780712

Part Number	Description
08645705	Cable Grip
08780722	Lower Belt
08780722	Upper Belt
08780724	Rear Guide Assembly
08780725	4-Hole Venturi
08780729	Venturi Plugs
08780730	Duct-Fill Plugs
08780731	Duct-Cap Plugs
08780732	Rear Guide
08780750	Proofing Balls

12.7 mm Kit (up to 4) 08780770

Part Number	Description
08645705	Cable Grip
08780722	Lower Belt
08780722	Upper Belt
08780724	Rear Guide Assembly
08780732	Rear Guide
08780750	Proofing Balls
08780771	4-Hole Venturi
08780772	Venturi Plugs
08780774	Duct-Cap Plugs
08780776	Duct-Fill Plugs

16 mm Kit (up to 2) 08780797

Part Number	Description
08645710	Cable Grip
08783383	Proofing Balls
08780721	Upper Belt
08780723	Lower Belt
08780796	2-Hole Venturi
08780734	Rear Guide
08780743	Duct-Fill Plugs
08780745	Duct-Cap Plugs
08780724	Rear Guide Assembly

14/10 mm Kit (up to 3) 08780878

Part Number	Description
08645710	Cable Grip
08783382	Proofing Balls
08780883	Upper Belt
08780882	Lower Belt
08780879	3-Hole Venturi
08780886	Rear Guide
08780730	Duct-Fill Plugs
08780731	Duct-Cap Plugs
08780724	Rear Guide Assembly

1-16 mm & 2-12/10 mm Kit 08780747

Part Number	Description
08645710	Cable Grip
08017000	Swivel
08783383	Proofing Balls 16/13
08783382	Proofing Balls 12/10
08780733	3-Hole Venturi
08780734	Rear Guide
08780743	Duct-Fill Plugs 16/13
08780745	Duct-Cap Plugs 16/13
08780730	Duct-Fill Plugs 12/10
08780731	Duct-Cap Plugs 12/10
08780724	Rear Guide Assembly

Y-Block

The Condux "Y"-Block is designed for installing a micro duct or fiber cable into an existing occupied duct, when coupled to the Gulfstream 400 Fiber Optic Cable Blower.

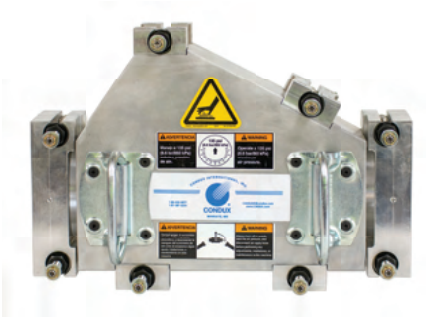
Part Number	Description
08761850	Y-Block

Common Parts Package: (Included with all Y-Blocks).

Part Number	Description
02283800	All Wrench $^{3}/_{32}$
02283900	Socket Hex Deep Well $^{11}/_{16}$"
02284000	Ratchet, $^{3}/_{8}$" Drive 6.75 in Long
08761443	Seal Kit Replacement
08761868	Inflatable Shuttle for 1.00-1.25
08761869	Inflatable Shuttle for 1.50-2.00
08761884	Cable Seal for .35-.50 Cable
08761885	Cable Seal for .51-.90 Cable
08761438	Capscrew Set

Y-Block Duct Packs (sold separately)
(Each duct pack comes with 2-seals & 2-clamps).

Part Number	Description	Duct OD
08761386	Y Block Duct Pack - 1.315 (33.4)	1.315"
08761826	Y Block Duct Pack - 1.570 (40.0)	1.570"
08761387	Y Block Duct Pack - 1.660 (42.2)	1.660"
08761388	Y Block Duct Pack - 1.900 (48.3)	1.900"
08761389	Y Block Duct Pack - 2.375 (60.3)	2.375"



Features & Benefits

- Portable
- Easy to Use
- Duct Range 1.315" – 2.375" (33 mm - 60 mm) OD
- Cable Seal Range 0.35" –0.90" (9 mm - 23 mm) OD
- Aluminum Construction
- Built-in Carrying Handles
- Canvas Storage Bag

Low PSI Shuttles

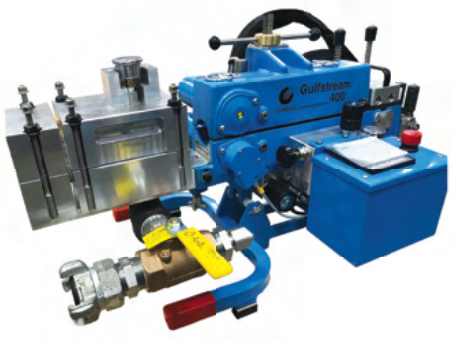
These unique, flexible shuttles are available in triple parachute configuration, making rope, pull tape and fiber optic cable installation in occupied duct a breeze. These shuttles can be used on their own or in series allowing for up to six parachutes to capture the air within the conduit, which can help increase installation distances. The parachutes collapse without constant air pressure allowing for easy pullback. Rated for 3 psi.



	Duct Size	
Part Number	(in)	(mm)
08761868	1.00-1.25	25-32
08761869	1.50-2.00	38-50

Gulfstream™ 400XL

The Condux Gulfstream™ 400XL is an enhanced version of the Gulfstream 400, specifically designed for the installation of ultra-high density OSP fiber into HDPE duct. While maintaining all the features of the Gulfstream 400's proven design, the Gulfstream 400XL boasts a larger air block to accommodate fiber cable ranging from 0.49" - 1.54" (12mm - 39mm) and duct 1" - 2.48" (32mm - 63mm).



Gulfstream™ 400XL Fiber Optic Cable Blower

Part Number	Description
08782625	Gulfstream 400XL Fiber Blower Upgrade Kit

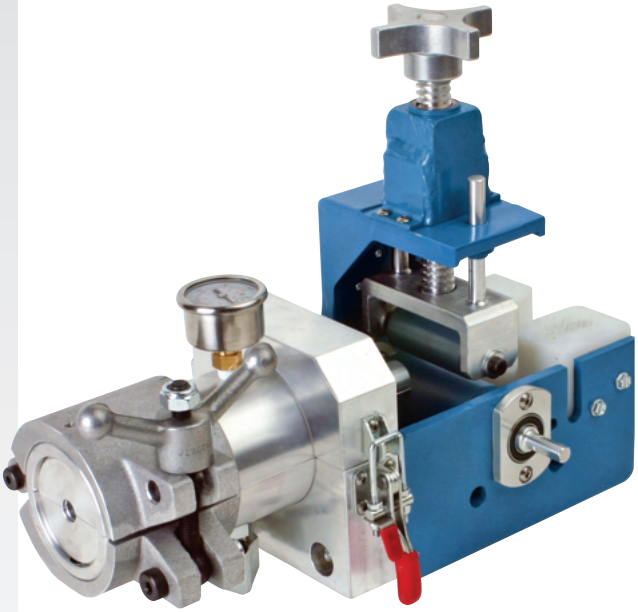
Duct Packs (minimum of one required)

Part Number	Description	
08761370	Duct Pack - 1"	SDR 11/13.5
08761375	Duct Pack - 1.25"	SDR 11/13.5
08761380	Duct Pack - 1.5"	SDR 11/13.5
08761385	Duct Pack - 2"	SDR 11/13.5

Cable Packs (minimum of one required)

Part Number	Description	
08782638	0.49"-0.60"	(12.4-15.3 mm)
08782637	0.61"-0.73"	(15.4-18.5 mm)
08782636	0.74"-0.85"	(18.6-21.6 mm)
08782635	0.86"-0.97"	(21.7-24.6 mm)
08782634	0.98"-1.13"	(24.7-28.7 mm)
08782633	1.14"-1.25"	(28.8-31.8 mm)
08782632	1.26"-1.34"	(31.9-34.0 mm)
08782631	1.35"-1.54"	(34.1-39.1 mm)

MINI-BLOWER PUSHER

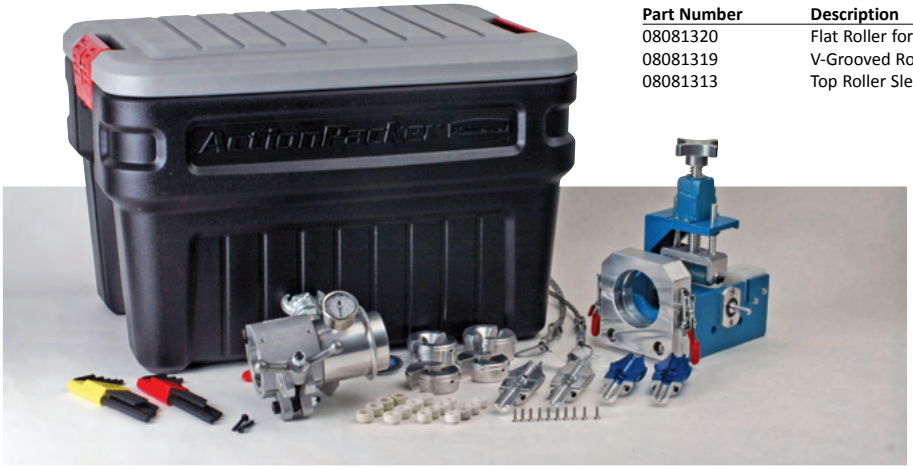


Mini-Blower/Pusher

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.

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
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 87 (08780802, 08780804)
08780865	Mini-Blower/Pusher Job Box with Kit for ¾" & 1¼" duct and includes cable packs 1, 2 & 3 in the Mini-Blower/Pusher cable pack chart on page 87 (08780802, 08780804, 08780806)
08780860	Job Box Only



Replacement Parts

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

See page 87 for Cable Packs and page 82 for Duct Packs.



Heavy Duty Tripod

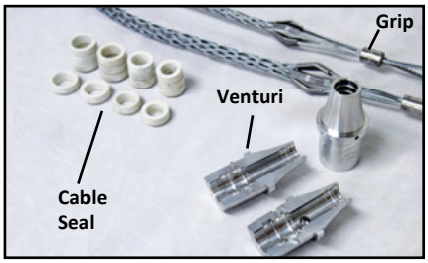
The Mini-Blower/Pusher mounts easily to the surveyor style tripod, which adds stability and versatility to fiber optic cable installations.

Part Number	Description
08780850	Heavy Duty Tripod



Cable Packs: Mini-Blower/Pusher

Pack	Cable Pack		Venturi		Cable Seal		Cable Grips
	Cable OD	Part Number	Cable OD	Part Number	Cable OD	Part Number	Part Number
1	0.23" - 0.34" (5.8 mm - 8.8 mm)	08780802	0.23" - 0.34" (5.8 - 8.8)	08780803	0.23" - 0.28" (5.8 - 7.2)	08780406	08643754
					0.29" - 0.34" (7.3 - 8.8)	08780407	
2	0.35" - 0.48" (8.9 mm - 12.2 mm)	08780804	0.35" - 0.48" (8.9 - 12.2)	08780805	0.35" - 0.42" (8.9 - 10.7)	08761424	08643755
					0.43" - 0.48" (10.8 - 12.2)	08761425	
3	0.49" - 0.60" (12.3 mm - 15.2 mm)	08780806	0.49" - 0.60" (12.3 - 15.2)	08780807	0.49" - 0.55" (12.3 - 14.0)	08761426	08643756
					0.56" - 0.60" (14.1 - 15.2)	08761427	
4	(10.4 mm x 5.5 mm)	08781117	Nylatron Venturi for Flat Fiber Optic Cables				
5	(15.2 mm x 6.7 mm)	08781118	Nylatron Venturi for Flat Fiber Optic Cables				

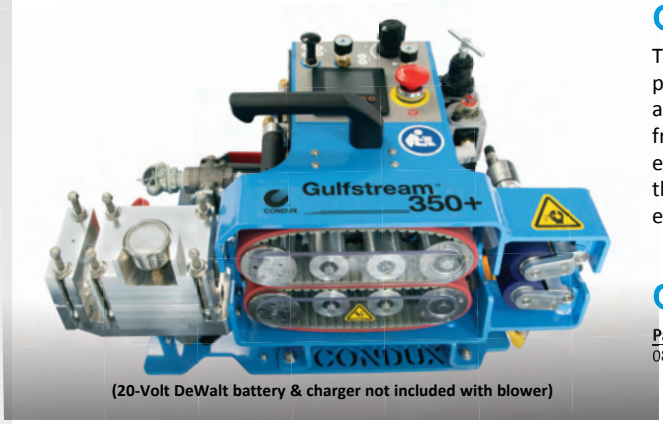


(See page 82 for Duct Packs)

Condux Gulfstream™ Series Comparison Chart

	Cable OD				Duct Size			
	Millimeters		Inches		Millimeters		Inches	
Condux Fiber Blower	Min	Max	Min	Max	Min	Max	Min	Max
GS 150	1	2.5	0.049	0.098	5	8	0.197	0.315
GS 250	2.5	8	0.098	0.315	5	18	0.197	0.709
GS 300	2.5	8	0.098	0.315	5	18	0.197	0.709
GS 350+	4	16.5	0.157	0.65	8	42	0.315	1.653
Mini-Blower/Pusher	5.8	12.7	0.23	0.50	10(M) or 12.7(T)	18(M) or 50.8(T)	0.50	2
GS 400	6	28.7	0.25	1.125	10	50	0.398	2
GS 400XL	12.5	39	0.49	1.54	32	63	1.25	2

GULFSTREAM™ 350+



(20-Volt DeWalt battery & charger not included with blower)

Gulfstream™ 350+ Blower

The new Condux Gulfstream 350+ Fiber Optic Cable Blower is all pneumatic and comes complete with a convenient storage case. With the ability to install fiber from 0.16" - 0.65" (4 - 16.5 mm) into duct ranging from 0.50" - 1.25" (8 - 42 mm), the Gulfstream 350+ provides an electronic counter, speed indicator, and maximum belt visibility. Complete the order with cable packs and duct packs on page 88 and 89 to meet the exact job requirements.

Gulfstream™ 350+ Micro Fiber Blower

Part Number	Description
08784801	Gulfstream™ 350+ Pneumatic Blower

Gulfstream™ 350+ Cable Packs

Cable Pack		Venturi		Cable Seal		Cable Grip	
Cable OD	Part Number	Cable OD	Part Number	Cable OD	Part Number	Cable OD	Part Number
0.16" - 0.18" (4.0 - 4.5 mm)	08781160	0.16" - 0.18" (4.0 - 4.5 mm)	08781165	4.0 mm	08780960K	0.10" - 0.22" (2.5 - 5.6 mm)	08643753
				4.5 mm	08780961K		
0.18" - 0.31" (4.6 - 8.0 mm)	08781161	0.18" - 0.31" (4.6 - 8.0 mm)	08781166	5.0 mm	08780962K	0.10" - 0.22" (2.5 - 5.6 mm)	08643753
				5.5 mm	08780963K		
				6.0 mm	08780964K		
				6.5 mm	08780965K	0.21" - 0.35" (5.3 - 8.9 mm)	08643754
				7.0 mm	08780966K		
				7.5 mm	08780967K		
				8.0 mm	08780968K		
0.32" - 0.47" (8.1 - 12.0 mm)	08781162	0.32" - 0.47" (8.1 - 12.0 mm)	08781167	8.5 mm	08780969K	0.32" - 0.48" (8.1 - 12.2 mm)	08643755
				9.0 mm	08780970K		
				9.5 mm	08780971K		
				10.0 mm	08780972K		
				10.5 mm	08780973K		
				11.0 mm	08780974K		
				11.5 mm	08780975K		
				12.0 mm	08780976K		
0.48" - 0.61" (12.1 - 15.5 mm)	08781163	0.48" - 0.61" (12.1 - 15.5 mm)	08781168	12.5 mm	08780977K	0.42" - 0.61" (10.7 - 15.5 mm)	08643756
				13.0 mm	08780978K		
				13.5 mm	08780979K		
				14.0 mm	08780980K		
				14.5 mm	08780981K		
				15.0 mm	08780982K		
				15.5 mm	08780983K		
0.61" - 0.65" (15.6 - 16.5 mm)	08781164	0.61" - 0.65" (15.6 - 16.5 mm)	08781169	16.0 mm	08780984K	0.53" - 0.74" (13.5 - 18.8 mm)	08643757
				16.5 mm	08780985K		
10.4 x 5.5 mm	08781117	(Nylatron venturi for flat fiber cables)					
15.2 x 6.7 mm	08781118	(Nylatron venturi for flat fiber cables)					

Gulfstream™ 350+ Duct Packs

Duct Size OD (MM)	Part Number	Duct Clamp	Duct Seal	End Stop Connector
8	08764160	08764162	08764163	08566336
8.5	08764175	08764169	08764171	08566323
10	08764140	08764142	08764143	08566325
12	08764110	08764112	08764113	08566327

Duct Size OD (MM)	Part Number	Duct Clamp	Duct Seal	End Stop Connector
12.7	08764150	08764151	08764153	08566338
14	08764120	08764122	08764123	08566328
16	08764130	08764132	08764133	08566329
18	08781110	08781106	08781101	08566334

Gulfstream™ 350+ Duct Packs (continued)

Duct Pack		Duct Clamp		Duct Seal		Carrier		Foam Carrier		Cable Grip		Innerduct Eye
Duct Size	Part Number	Duct OD (mm)	Part Number	Duct OD (mm)	Part Number	Carrier OD (mm)	Part Number	Carrier OD (mm)	Part Number	Duct OD (mm)	Part Number	Part Number and ID Range (mm)
1/2" SDR 11-13.5	08780795	0.840" (21.3)	08780791	0.840" (21.3)	08780786	0.688" (17.50)	08780793	0.75" (19.0)	08078300	.75-.99" (19-25)	08643131	08913342 .71-.77" (18-20)
3/4" (27mm) SDR 11-13.5	08780680	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	08761840 .71-.87" (18-22)
1" SDR 11/13.5	08780386	1.315" (33.4)	08780369	1.315" (33.4)	08780307	1.121" (28.5)	08761250	1.25" (31.8)	08761439	1.25-1.49" (32-38)	08643143	08913343 .75-1.00" (19-25)
1.25" SDR 11/13.5	08780392	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	08761842 1.06-1.43" (27-37)
20mm	08781120	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	08914007 .551-.813" (14-20)
22mm	08781153	0.886" (22.0)	08781154	0.886" (22.0)	08781155	0.688" (17.5)	08780793	1.00" (25.4)	08761444	.75-.99" (19.0-25.1)	08643131	08914007 .551-.813" (14-20)
25mm	08780240	0.984" (25.0)	08780099	0.984" (25.0)	08780134	0.787" (20.0)	08780230	1.25" (31.8)	08761439	1.25-1.49" (31.8-37.8)	08643137	08761840 .71-.87" (18-22)
32mm	08780385	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	08761842 1.06-1.43" (27-37)
36mm	08780387	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	08761842 1.06-1.43" (27-37)
37mm	08780388	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	08761842 1.06-1.43" (27-37)
1.25" TRUE	08780389	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	08761842 1.06-1.43" (27-37)
40mm	08780390	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	08761842 1.06-1.43" (27-37)
42mm	08780391	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	08761844 1.37-1.68" (35-43)

Gulfstream™ 350+ Size

- Dimensions: 23.6" (l) x 13.9" (w) x 13.1" (h)
  599 mm (l) x 351 mm (w) x 331 mm (h)
- Weight: 55 lbs/25 kg

Duct Range

- .50" - 1.25" (8 mm - 42 mm)

Fiber Cable Range

- .16" - .65" (4 mm - 16.5 mm)

Features

- Electronic Counter/Real Time Distance (Feet and Meters)
- Speed Indicator (ft/min and m/min)
- No Tools Required for Belt Replacement
- Maximum Belt Visibility, Transparent Covers for Easy Monitoring
- Emergency Stop Button
- Air Conditioning: Filter, Regulator, and Lubricator
- Robust, Rolling Carrying Case

Drive

- Pneumatic Drive System
- Maximum Push Force: 105 lbs. (467 N)
- Dynamic Push Force: 70 lbs. @ 150 ft/min (312 N @ 45.7 m/min)

Air Compressor Requirements

Microduct:

- Minimum Air Pressure: 100 PSI (7 Bar)*
- Recommended Air Pressure: 150-205 PSI (10-14 Bar)*
- Minimum Flow Rating: 35 CFM (1.0 CMM)*

Traditional Duct:

- Minimum Air Pressure: 100 PSI (7 Bar)*
- Recommended Air Pressure: 115-150 PSI (7-10 Bar)*
- Recommended Flow Rating: 185-375 CFM (5-11 CMM)*

* Air pressure and flow requirements depend on the size of duct and the size of fiber being installed into that duct.

GULFSTREAM™ 300

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 2.5 mm to 8 mm into duct from 7 mm to 18 mm, the Gulfstream 300 offers the portability, convenience and power for standard middle mile projects in a cost effective package. Weighing just 9 lbs. (4.1 kg), the Gulfstream 300 is easily transported and can be mounted on a tripod for optimum productivity.

***The Gulfstream 300 no longer uses batteries for power. 48v power supply included with kits**

Gulfstream™ 300 Micro Fiber Blower Kits

Part Number	Description
08787001	Gulfstream 300™ Micro Fiber Blower Standard Kit, US*
08787002	Gulfstream 300™ Micro Fiber Blower Standard Kit, Int'l*

Included in standard kits:

Part Number	QTY	Description
02290961	1	Plastic Case
02291020	1	Hex Key Set
08784011	1	Large V-Groove Belt, GS300 QC
08783076	1	Seal Kit
08783519	1	O-Ring Kit (qty 5)
08787018	1	Flat Belt, GS300 QC
08787021	1	Rear Insert Guide (3-4mm)
08787022	1	Rear Insert Guide (5-7mm)
08787023	1	Rear Insert Guide (8-10mm)
08787060	1	AC Power Supply, 48v - US
08783508	1	AC Power Supply, 48v - Int'l (must install appropriate plug)
08782212	1	Tripod Plate, 5/8" to 1/4" Adapter
02290383	1	Adjustable HD Tripod, 42"- 65"
08787066	1	Quick Change Tool

Cable Seals and Duct Packs noted with (*) on page 91 included in kits

CE



Blower Size

- Dimensions: 11" (l) x 8" (w) x 6" (h)
  279 mm (l) x 203 mm (w) x 152 mm (h)
- Weight: 9 lbs/4.1 kg

Microduct Range

- 7 – 18 mm
- Built in clamping system with interchangeable seals

Fiber Cable Range

- 2.5 – 8 mm

Power System

- Electric drive motor
- **48v AC Power Supply (Plugged into wall or 1000 w Generator)**

Drive

- Belt drive
- Maximum push force of 30 lbs (133 N)
- Speed: 0-230 fpm (0 – 70mpm) with 48V inverter

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 adjustment

Pressure and Flow

- Air connections: 3/8" EU or US Coupling
- Air Pressure Requirements (BAR)*: 10-15 Bar
- Air Pressure Requirements (PSI)*: 150-205 PSI
- Flow Requirements (CMM)*: 0.5-1.5 CMM
- Flow Requirements (CFM)*: 10-35 CFM

*Air pressure and flow requirements depends on the size of duct and the size of fiber being installed into that duct.

Gulfstream™ 300
Micro Fiber Blower Replacement Parts

Replacement Cable Seals



Part Number	Description
08783792	2.5 mm Cable Seal Kit (6 pcs)*
08783644	3.0 mm Cable Seal Kit (6 pcs)*
08783737	3.25 mm Cable Seal Kit (6 pcs)
08783645	3.5 mm Cable Seal Kit (6 pcs)*
08783739	3.75 mm Cable Seal Kit (6 pcs)
08783646	4.0 mm Cable Seal Kit (6 pcs)*
08783741	4.25 mm Cable Seal Kit (6 pcs)
08783647	4.5 mm Cable Seal Kit (6 pcs)*
08783743	4.75 mm Cable Seal Kit (6 pcs)
08783648	5.0 mm Cable Seal Kit (6 pcs)*
08783649	5.5 mm Cable Seal Kit (6 pcs)*
08783650	6.0 mm Cable Seal Kit (6 pcs)*
08783651	6.5 mm Cable Seal Kit (6 pcs)*
08783652	7.0 mm Cable Seal Kit (6 pcs)*
08783653	7.5 mm Cable Seal Kit (6 pcs)*
08783654	8.0 mm Cable Seal Kit (6 pcs)*
08783655	8.5 mm Cable Seal Kit (6 pcs)*
08783656	9.0 mm Cable Seal Kit (6 pcs)*
08783657	9.5 mm Cable Seal Kit (6 pcs)*
08783658	10.0 mm Cable Seal Kit (6 pcs)*
08783659	10.5 mm Cable Seal Kit (6 pcs)*
08783660	Cable Seal Kit Blanks (6 pcs)*
08783666	Flat Cable Seal Kit 8.1 mm x 4.5 mm (6 pcs)

**Included in Gulstream 300 standard blower kit*

Replacement Duct Packs



Part Number	Description
08787035	7.0mm Duct Pack Assembly (includes 10 O-Rings)*
08787055	8.0mm Duct Pack Assembly (includes 10 O-Rings)*
08787037	8.5mm Duct Pack Assembly (includes 10 O-Rings)*
08787038	10.0mm Duct Pack Assembly (includes 10 O-Rings)*
08787042	12.0mm Duct Pack Assembly (includes 10 O-Rings)*
08787043	12.7mm Duct Pack Assembly (includes 10 O-Rings)*
08787028	14.0mm Duct Pack Assembly (includes 10 O-Rings)*
08787029	16.0mm Duct Pack Assembly (includes 10 O-Rings)*
08787045	18.0mm Duct Pack Assembly (includes 10 O-Rings)*

**Included in Gulstream 300 standard blower kit*

Replacement O-Rings

Part Number	Description
08783192	7.0 mm Duct O-Ring Kit (12 pcs)
08783193	8.0 mm Duct O-Ring Kit (12 pcs)
08783194	8.5 mm Duct O-Ring Kit (12 pcs)
08783195	10.0 mm Duct O-Ring Kit (12 pcs)
08783196	12.0 mm Duct O-Ring Kit (12 pcs)
08783197	12.7 mm Duct O-Ring Kit (12 pcs)
08783641	14.0 mm Duct O-Ring Kit (12 pcs)
08783642	16.0 mm Duct O-Ring Kit (12 pcs)
08783643	18.0 mm Duct O-Ring Kit (12 pcs)

Gulfstream™ 300
Micro Fiber Blower Accessories





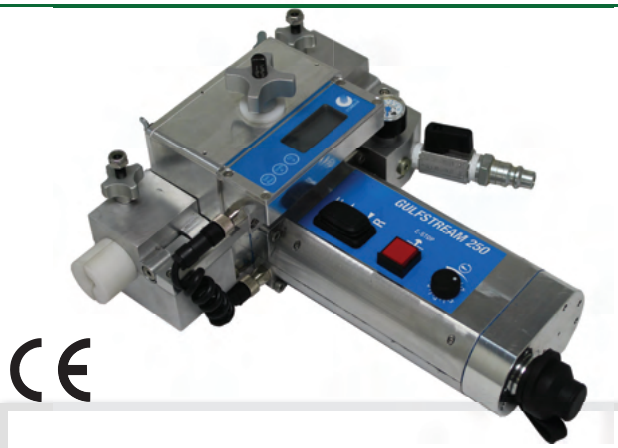
Part Number	Description
02290383	Adjustable HD Tripod, 42"- 65"
08782212	Tripod Plate, 5/8" to 1/4" Adapter
08787060	AC Power Supply, 48v - US
08783508	AC Power Supply, 48v - Int'l (must install appropriate plug)
08783392	GS250/300 Flow Regulator Kit
08783393	GS250/300 Flow Regulator Kit - Int'l Fittings
08783301	GS250/300 Proof/Pressure Test Kit
08783878	Wet Fat Belt with Groove QC (qty 2 req'd)

GULFSTREAM™ 250

Gulfstream™ 250 Micro Fiber Blower

The Gulfstream 250 is an effective and economical approach to middle mile fiber installations. Able to install fiber optic cable ranging in size from 2.5 mm - 8mm into duct from 5 mm - 18 mm, the Gulfstream 250 offers 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.

***The Gulfstream 250 no longer uses batteries for power.**
48v power supply included with kits



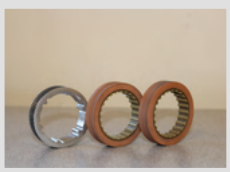
Gulfstream™ 250
Micro Fiber Blower Complete Kit

Part Number	Description
08783805-50	Gulfstream 250™ Micro Fiber Blower Standard Kit, US*
08783805-51	Gulfstream 250™ Micro Fiber Blower Standard Kit, Int'l*

Included in standard kits:

Part Number	Description
02290961	Plastic Case
02291020	Hex Key Set
08783427	Large Groove Green Belt
08783076	Seal Kit
08783519	O-Ring Kit (qty 5)
08783425	Flat Orange Belt
08783770	Rear Insert Guide (3-4 mm)
08783771	Rear Insert Guide (4-7 mm)
08783772	Rear Insert Guide (7-10 mm)
08787060	AC Power Supply, 48v - US
08783508	AC Power Supply, 48v - Int'l (must install appropriate plug)
08782212	Tripod Plate, 5/8" to 1/4" Adapter
02290383	Adjustable HD Tripod, 42"- 65"
08787066	Quick Change Tool

Cable Seals and Duct Packs noted with (*) on page 93 included in kits



Specialty Wheels

Fiber Cable Range

2.5 - 4mm
08783819 - Wheel, Specialty Fat, Groove Orange (2 req'd)

3.5 - 4.3mm
08783884 - Wet Wheel, Serrated (1 req'd)

4.4 - 5.5mm
08783885 - Wet Wheel, Serrated (1 req'd)

5.6 - 7.75mm
08783886 - Wet Wheel, Serrated (1 req'd)

7.75 - 9.75mm
08783887 - Wet Wheel, Serrated (1 req'd)

specialty wheels purchased separately

Blower Size

- Dimensions: 11" (l) x 8" (w) x 6" (h)
  279 mm (l) x 203 mm (w) x 152 mm (h)
- Weight: 9 lbs/4.1 kg

Microduct Range

- 5 – 18 mm
- Built in clamping system with interchangeable seals

Fiber Cable Range

- 2.5 – 8 mm
- 8.1 - 9.75 mm (with specialty wheels, not included in kit)

Power System

- Electric drive motor
- **48v AC Power Supply**
  (Plugged into wall or 1000 w Generator)

Drive

- Wheel drive
- Maximum push force of 30 lbs (133 N)
- Speed: 0-230 fpm (0 – 70 mpm) with 48V inverter

Controls

- Forward/reverse switch
- Speed control to regulate motor speed
- Screen that monitors speed, distance and life counter
- Emergency stop button for instant shut down
- Push force adjustment

Pressure and Flow

- Air connections: 3/8" EU or US Coupling
- Air Pressure Requirements (BAR)*: 10-15 Bar
- Air Pressure Requirements (PSI)*: 150-205 PSI
- Flow Requirements (CMM)*: 0.5-1.5 CMM
- Flow Requirements (CFM)*: 10-35 CFM

*Air pressure and flow requirements depends on the size of duct and the size of fiber being installed into that duct.

Gulfstream™ 250
Micro Fiber Blower Replacement Parts

Replacement Cable Seals

Part Number	Description
08783792	2.5 mm Cable Seal Kit (6 pcs)*
08783644	3.0 mm Cable Seal Kit (6 pcs)*
08783645	3.5 mm Cable Seal Kit (6 pcs)*
08783646	4.0 mm Cable Seal Kit (6 pcs)*
08783647	4.5 mm Cable Seal Kit (6 pcs)*
08783648	5.0 mm Cable Seal Kit (6 pcs)*
08783649	5.5 mm Cable Seal Kit (6 pcs)*
08783650	6.0 mm Cable Seal Kit (6 pcs)*
08783651	6.5 mm Cable Seal Kit (6 pcs)*
08783652	7.0 mm Cable Seal Kit (6 pcs)*
08783653	7.5 mm Cable Seal Kit (6 pcs)*
08783654	8.0 mm Cable Seal Kit (6 pcs)*
08783660	Cable Seal Blanks (6 pcs)*
08783655	8.5 mm Cable Seal Kit (6 pcs)
08783656	9.0 mm Cable Seal Kit (6 pcs)
08783657	9.5 mm Cable Seal Kit (6 pcs)
08783658	10.0 mm Cable Seal Kit (6 pcs)
08783666	Flat Cable Seal Kit 8.1 mm x 4.5 mm (6 pcs)

**Included in Gulstream 250 standard blower kit*



Replacement Duct Packs

Part Number	Description
08783812	5.0 mm Duct Pack Assembly (includes 10 O-Rings)*
08783813	6.0 mm Duct Pack Assembly (includes 10 O-Rings)*
08783832	7.0 mm Duct Pack Assembly (includes 10 O-Rings)*
08783833	8.0 mm Duct Pack Assembly (includes 10 O-Rings)*
08783834	8.5 mm Duct Pack Assembly (includes 10 O-Rings)*
08783634	10.0 mm Duct Pack Assembly (includes 10 O-Rings)*
08783635	12.0 mm Duct Pack Assembly (includes 10 O-Rings)*
08783636	12.7 mm Duct Pack Assembly (includes 10 O-Rings)*
08783637	14.0 mm Duct Pack Assembly (includes 10 O-Rings)*
08783638	16.0 mm Duct Pack Assembly (includes 10 O-Rings)*
08783639	18.0 mm Duct Pack Assembly (includes 10 O-Rings)*

**Included in Gulstream 250 standard blower kit*



Replacement O-Rings

Part Number	Description
08783190	5.0 mm Duct O-Ring Kit (12 pcs)
08783191	6.0 mm Duct O-Ring Kit (12 pcs)
08783192	7.0 mm Duct O-Ring Kit (12 pcs)
08783193	8.0 mm Duct O-Ring Kit (12 pcs)
08783194	8.5 mm Duct O-Ring Kit (12 pcs)
08783195	10.0 mm Duct O-Ring Kit (12 pcs)
08783196	12.0 mm Duct O-Ring Kit (12 pcs)
08783197	12.7 mm Duct O-Ring Kit (12 pcs)
08783641	14.0 mm Duct O-Ring Kit (12 pcs)
08783642	16.0 mm Duct O-Ring Kit (12 pcs)
08783643	18.0 mm Duct O-Ring Kit (12 pcs)

Gulfstream™ 250
Micro Fiber Blower Accessories

Part Number	Description
02290383	Adjustable HD Tripod, 42"- 65"
08782212	Tripod Plate, 5/8" to 1/4" Adapter
08787060	AC Power Supply, 48v - US
08783508	AC Power Supply, 48v - Int'l (must install appropriate plug)
08783392	GS250/300 Flow Regulator Kit
08783393	GS250/300 Flow Regulator Kit - Int'l Fittings
08783301	GS250/300 Proof/Pressure Test Kit
08787066	Quick Change Tool

For additional wheel options, see 'Specialty Wheels' on page 92





GULFSTREAM™ 150

Gulfstream™ 150 Micro Fiber Blower

The Gulfstream 150 micro fiber blower is designed for FTTx and Enterprise micro fiber cable installation projects. The self-contained Gulfstream 150 combines the push force of a small electric motor driven belt drive with compressed air to quickly and easily install microfiber cables from 1.0 mm to 2.5 mm in diameter into microduct ranging in size from 5 mm to 8.0 mm, at speeds up to 375 feet per minute.

The unit's machined aluminum construction provides a lightweight profile with long life and durability. The Gulfstream 150's compact size and convenient carrying case allow for easy transport between job sites.

***The Gulfstream 150 no longer includes a battery or charger.**

Requirements listed below and must be sourced by installer.



Gulfstream™ 150 Micro Fiber Blower Complete Kit

Part Number	Description
08783400-50	Gulfstream 150™ Micro Fiber Blower Standard Kit, US*
08783400-51	Gulfstream 150™ Micro Fiber Blower Standard Kit, Int'l*

Included in standard kits:

Part Number	QTY	Description
08783054	1	Plastic Case
02291020	1	Hex Key Set
08783426	2	Small Groove Wheel
08783076	1	Seal Kit
08783077	1	O-Ring Kit (qty 5)
02290882	1	Adjustable Tripod, 9lbs, 11" - 63"
08783199	1	Belt Battery Clip
08783259	1	Blank Seal Kit (qty 6)

Cable Seals and Duct Packs noted with (*) on page 95 included in kits

Blower Size

- Dimensions: 8" (l) x 6" (w) x 6" (h)
  203 mm (l) x 152 mm (w) x 152 mm (h)
- Weight: 7 lbs/3.2 kg

Microduct Range

- 5 – 8 mm
- Built in clamping system with interchangeable seals

Fiber Cable Range

- 1 – 2.5 mm

Power System

- Electric drive motor
- 12v (US) or 10.8v (EU) Cordless Battery (not included)
- AC Power Supply (optional)

Drive

- Roller Cover
- Maximum push force of 4.5 lbs (20 N)
- Speed: 0-375 fpm (0 – 115 mpm)

Controls

- Screen that monitors speed and distance - life counter
- Forward/Reverse switch
- Speed control to regulate motor speed
- Push force adjustment

Pressure and Flow

- Air connections: 1/4" EU or US Coupling
- Air Pressure Requirements (BAR)*: 10-15 Bar
- Air Pressure Requirements (PSI)*: 150-205 PSI
- Flow Requirements (CMM)*: 0.5-1.5 CMM
- Flow Requirements (CFM)*: 10-35 CFM

*Air pressure and flow requirements depends on the size of duct and the size of fiber being installed into that duct.

Gulfstream™ 150
Micro Fiber Blower Replacement Parts



Replacement Cable Seals

Part Number	Description
08783448	1.25 mm Cable Seal Kit (6 pcs)*
08783449	1.50 mm Cable Seal Kit (6 pcs)*
08783450	1.75 mm Cable Seal Kit (6 pcs)*
08783451	2.00 mm Cable Seal Kit (6 pcs)*
08783452	2.25 mm Cable Seal Kit (6 pcs)*
08783453	2.50 mm Cable Seal Kit (6 pcs)*
08783259	Cable Seal Kit Blanks (6 pcs)*

**Included in Gulstream 150 standard blower kit*

Duct Packs

Part Number	Description
08783170	5.0 mm Duct Pack Assembly (includes 10 O-Rings)*
08783171	6.0 mm Duct Pack Assembly (includes 10 O-Rings)*
08783172	7.0 mm Duct Pack Assembly (includes 10 O-Rings)*
08783173	8.0 mm Duct Pack Assembly (includes 10 O-Rings)*

**Included in Gulstream 150 standard blower kit*



Replacement O-Rings

Part Number	Description
08783190	5.0 mm Duct O-Ring Kit (12 pc)
08783191	6.0 mm Duct O-Ring Kit (12 pc)
08783192	7.0 mm Duct O-Ring Kit (12 pc)
08783193	8.0 mm Duct O-Ring Kit (12 pc)

Accessories for Gulfstream™ 150
Micro Fiber Blower

Part Number	Description
08783390	Gulfstream™ 150 Flow Regulator
08783391	Gulfstream™ 150 Flow Regulator - Intl Fittings
02290882	Tripod
08783181	AC Power Supply - Int'l (must install appropriate plug)
08783303	GS150 Proof/Pressure Test Kit
08783180	A/C Power Supply - US
08783457	Hose Assembly, Claw to QD GS150 INTL
08783199	Belt Battery Clip







CABLE TIPS



Cable Tips

These tips screw onto fiber optic cable to assist in guiding the fiber through sharp corners and couplings. Sizes range from 2 - 9 mm in 1/2 mm increments. **Note: the actual tip diameter is 1/2 mm larger than cable diameter (ex: the outer diameter of a tip for 4 mm cable (08783978) will measure 4.5 mm).**

Part Number	Description
08783970	2.0 mm Cable Tips (10 pcs)
08783972	2.5 mm Cable Tips (10 pcs)
08783974	3.0 mm Cable Tips (10 pcs)
08783976	3.5 mm Cable Tips (10 pcs)
08783978	4.0 mm Cable Tips (10 pcs)
08783980	4.5 mm Cable Tips (10 pcs)
08783982	5.0 mm Cable Tips (10 pcs)
08783984	5.5 mm Cable Tips (10 pcs)
08783986	6.0 mm Cable Tips (10 pcs)
08783988	6.5 mm Cable Tips (10 pcs)
08783990	7.0 mm Cable Tips (10 pcs)
08783992	7.5 mm Cable Tips (10 pcs)
08783994	8.0 mm Cable Tips (10 pcs)
08783996	8.5 mm Cable Tips (10 pcs)
08783998	9.0 mm Cable Tips (10 pcs)

Micro Duct Pressure Test Kits

Use the Micro Duct Pressure Test Kit before setting up the Gulfstream™ 150/250/300 to pressure test, proof, and lubricate micro duct for optimum performance. For the cable blower to function properly, the microduct system must be able to withstand and hold 100 psi (7 bar). Air leaks will reduce the compressors' ability to maintain the required pressure for cable installation. The duct system must also be passable by a proofing ball of roughly 80% fill ratio so that there are no obstructions prohibiting the installation of fiber optic cable. Lubrication may also be desired to reduce the friction involved when installing fiber optic cable. Achieve maximum performance and installation distances by pressure testing, proofing, and lubricating the microduct with the Condux Micro Duct Pressure Test Kit.



Part Number	Description	QTY	U/M
08783302*	Standard Pressure Test Kit (includes all of the following)		
02291159	Tool Box	1	ea
08783304	Pressure Test Gun	1	ea
08230676	Lubricant, 8oz Bottle	1	ea
08783315	Micro Duct Cutter	1	ea
08783354	Micro Duct Cable Grip Test Kit	1	ea

*Must select appropriately sized Micro Duct Kit from any kit listed below

Part Number	Description	QTY	U/M
08783303	GS150 Pressure Test Kit (Includes all of the following)		
08783316	5mm Micro Duct Proof/Press Test Kit	1	ea
08783317	6mm Micro Duct Proof/Press Test Kit	1	ea
08783318	7mm Micro Duct Proof/Press Test Kit	1	ea
08783319	8mm Micro Duct Proof/Press Test Kit	1	ea
08783304	Pressure Test Gun	1	ea
08783315	Micro Duct Cutter	1	ea
02291159	Tool Box	1	ea
08783354	Micro Duct Cable Grip Test Kit	1	ea

Part Number	Description	QTY	U/M
08783301	GS250/300 Pressure Test Kit (includes all of the following)		
08783319	8 mm Micro Duct Proof/Press Test Kit	1	ea
08783320	8.5 mm Micro Duct Proof/Press Test Kit	1	ea
08783315	Micro Duct Cutter	1	ea
08783318	7 mm Micro Duct Proof/Press Test Kit	1	ea
08783321	10 mm Micro Duct Proof/Press Test Kit	1	ea
08783324	14 mm Micro Duct Proof/Press Test Kit	1	ea
08783325	16 mm Micro Duct Proof/Press Test Kit	1	ea
08783322	12 mm Micro Duct Proof/Press Test Kit	1	ea
08783323	12.7 mm Micro Duct Proof/Press Test Kit	1	ea
08783326	18 mm Micro Duct Proof/Press Test Kit	1	ea
02291159	Tool Box	1	ea
08783354	Micro Duct Cable Grip Test Kit	1	ea
08783304	Pressure Test Gun	1	ea

Note: Requires lubricant. Not included.

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.



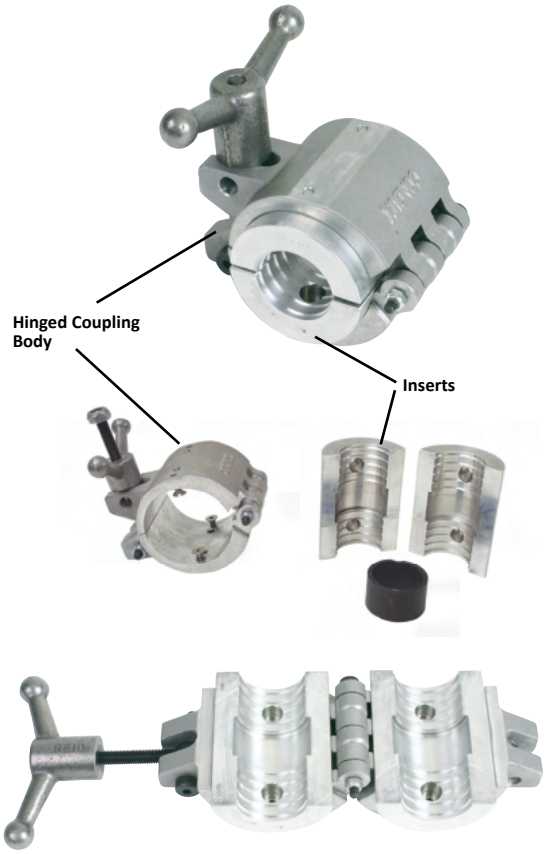
Part Number	Description
08764090	Micro Fiber Carrier Kit

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 100 psi (7 bar) for the cable blower to function properly. 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 page 99.

INNERDUCT COUPLINGS



Speed Ball Split Coupling

Hinged aluminum split coupling for temporarily joining all types of innerduct during a cable blowing process.

Note: Inserts are sold separately.

Part Number	Description
08676844	Hinged Coupling Body

Inserts

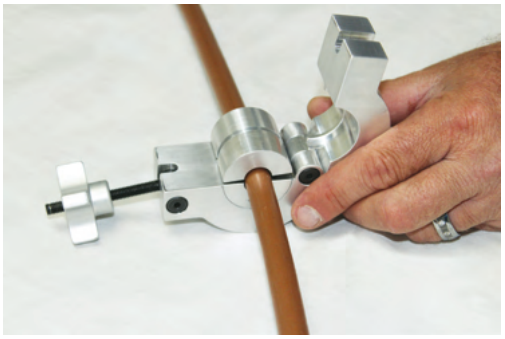
Part Number	Duct Type	Mean Duct O.D. (in)	Mean Duct O.D. (mm)
08676859	1" SDR 11 & 13.5	1.315	33
08676860	1¼" SDR 11 & 13.5	1.660	42
08676861	1½" SDR 11 & 13.5	1.900	48
08676862	2" SDR 11 & 13.5	2.375	60
08676863	40 mm	1.575	40

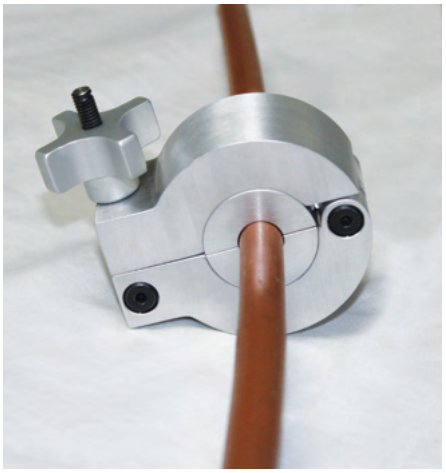
*Inserts include rubber seal.

Replacement Seals

Part Number	Size
08676853	1" Seal
08676854	1¼" Seal
08676855	1½" Seal
08676856	2" Seal
08676857	40 mm

*Quantities are 10 seals per pack.





Reusable Micro Duct Couplers

The Condux® Reusable Micro Duct Coupler allows for the temporary joining of two pieces of microduct - essential when installing fiber optic cable.

These couplers are ideal for routing duct to the blowing machine or creating loops in downstream handholes. Unlike traditional plastic couplers, the hinged assembly can be removed mid-span and reused.

To be more cost effective, the innovative design utilizes a common body that accommodates a wide variety of inserts - making the Reusable Micro Duct Coupler the most versatile on the market.

Part Number	Description
08783900	Body
08783910	Micro Duct Coupler Insert Set - 5.0 mm
08783911	Micro Duct Coupler Insert Set - 6.0 mm
08783912	Micro Duct Coupler Insert Set - 7.0 mm
08783913	Micro Duct Coupler Insert Set - 8.0 mm
08783914	Micro Duct Coupler Insert Set - 8.5 mm
08783915	Micro Duct Coupler Insert Set - 10.0 mm
08783916	Micro Duct Coupler Insert Set - 12.0 mm
08783917	Micro Duct Coupler Insert Set - 12.7 mm
08783918	Micro Duct Coupler Insert Set - 14.0 mm
08783919	Micro Duct Coupler Insert Set - 16.0 mm
08783920	Micro Duct Coupler Insert Set - 18.0 mm
08783921	Micro Duct Coupler Insert Set - 20.0 mm

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 and duct manufacturers, as well as, top utility and contractors.

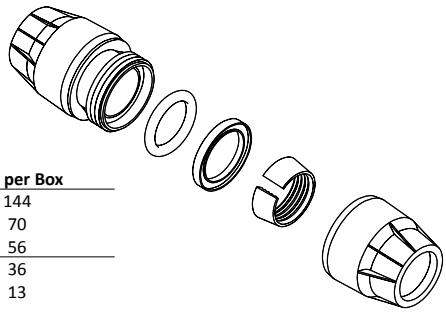
Comfit is excellent for both blowing and pulling applications.

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.



Max Pressure: 230 PSI



Part Number	Nominal OD	Duct OD mm/in	Coupler OD mm/in	Max Tension PSI	Qty per Box
08566109	¾"	26.6 mm/1.050"	43 mm/1.69"	580	144
08566110	1.0"	33.4 mm/1.315"	56 mm/2.20"	580	70
08566112	1¼"	42.2 mm/1.660"	72 mm/2.83"	1,130	56
08566115	1½"	48.3 mm/1.900"	82 mm/3.23"	1,470	36
08566120	2.0"	60.3 mm/2.375"	109 mm/4.29"	2,400	13

Microfit Couplers

Designed specifically for FTTx applications, the Condux® Microfit Couplers combine ease of use, chemical resistance and ability to accommodate the high pressures encountered when installing fiber with micro-blowing equipment.

The innovative transparent design ensures proper attachment by allowing the installer to visually verify that each end of the duct has been seated properly inside the coupler. Once connected, the air and water tight seal will hold pressure up to 232 PSI (16 Bar) in temperatures ranging from -4°F to 140°F (-20°C to 60°C).

These features incorporated into a push-on, no tools required design, make the Condux® Microfit Coupler an essential component of the professional installers toolbox.



Part Number	Description
08566310	Straight Connector - 5 mm Microfit
08566320	Endstop Connector - 5 mm Microfit
08566312	Straight Connector - 7 mm Microfit
08566322	Endstop Connector - 7 mm Microfit
08566335	Straight Connector - 8 mm Microfit
08566336	Endstop Connector - 8 mm Microfit
08566313	Straight Connector - 8.5 mm Microfit
08566323	Endstop Connector - 8.5 mm Microfit
08566315	Straight Connector - 10 mm Microfit
08566325	Endstop Connector - 10 mm Microfit
08566317	Straight Connector - 12 mm Microfit
08566327	Endstop Connector - 12 mm Microfit
08566337	Straight Connector - 12.7 mm Microfit
08566338	Endstop Connector - 12.7 mm Microfit
08566318	Straight Connector - 14 mm Microfit
08566328	Endstop Connector - 14 mm Microfit
08566319	Straight Connector - 16 mm Microfit
08566329	Endstop Connector - 16 mm Microfit
08566333	Straight Connector - 18 mm Microfit
08566334	Endstop Connector - 18 mm Microfit

AIR COMPRESSORS

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.

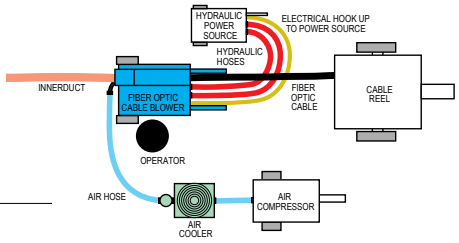
Use of the Condux Compressed Air Cooler is recommended when ambient air temperatures reach 90° F (32° C) or more and/or the duct is exposed to direct sunlight.

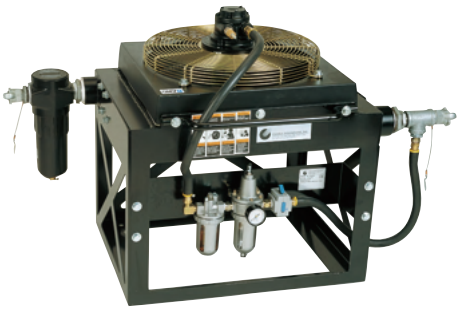
Minimum ambient operating temperature: 35° F (1° C)

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

Maximum operating pressure: 250 psi (17 bar)

Part Number	Description
08761700	Air Cooler
02291174	1 Quart Air Oil





M17 Air Compressor with Air Cooler

The Mobilair™ M17 is a rugged and dependable unit that is perfect for a variety of applications. With a folding handle, oversized pneumatic tires, and compact design, this unit is easy to move around virtually any job site.

The M17 features Kaeser's power saving Sigma Profile™ airend. This efficient Kaeser design maintains steady pressure and puts out more air per hp, saving you gas. Driving these airends is a quiet but powerful Honda engine with modulation control which matches air output to the load demand. It has a simple electric starter with keyed ignition and an easy-to-read control panel.

The scratch, dent, and impact resistant rotomolded polyethylene shell takes a beating and still protects the unit. Inside, the compressors are protected by 4 micron inlet filters rated at 99.9% efficiency, allowing this unit to operate in virtually any construction environment. These units are a custom 35 cfm configuration and include an air cooler.

Part Number	Description
08785000	35 CFM @ 205 PSI (1 m3/min @ 14 bar) - Domestic Fittings
08785050	3/8" 50 ft (9.5 mm 15 m) Hose with QDS (Domestic)



**recommended for the Condux Gulfstream™ 150, 250 and 300*

COMPRESSOR		GASOLINE ENGINE				PACKAGE		DIMENSIONS
Model	Free Air Delivery at 205 psig (14.13 Bar)	Make	Power @ Full Load (hp)	Full Load Speed (rpm)	Off Load Running Speed (rpm)	Fuel Tank Capacity	Weight, dry	L x W x H
M17	35 cfm (1 m3/min)	Honda GX630	20.8 (15.51 KW)	3300	2200	5 gal (18.93 L)	445 lb. (201.85 kg)	42 in x 31 in x 31 in (108 cm x 80 cm x 78 cm)

Portable Hydraulic Power Pack

This portable power source is matched perfectly to the power requirements of the Condux Fiber Optic Cable Puller and the Fiber Optic Cable Blower. See the chart below for specifications.

Part Number	Description
08675702	13 HP Variable Flow Power Pack

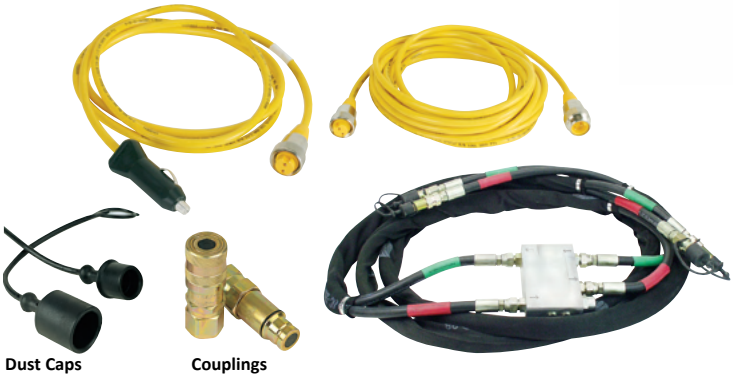


13 HP Power Pack

SPECIFICATIONS				
Power Pack Size	13 HP Power Pack (recommended)			
Part Number	08675702 08675702INTL			
Hyd. System	Open Center			
Frame Type	Two Wheel Mobile Unit			
Length	26.5" (673 mm)			
Width	20" (508 mm)			
Height	27.5" (698 mm)			
Weight (Dry)	143 lbs (65 kg)			
Filtration	10 Micron Return Line Canister			
Oil Cooler	Air to Oil			
Engine	Gas			
	13 HP Honda GX390			
Fuel	1.6 gallons/6.4 liters			
Hydraulic Oil (Useable)	5 gallons/18.9 liters			
Hydraulic Rated Flow	GPM @ PSI		LPM @ BAR	
	6.8 5.9	0 1,800	25.8 22.4	0 138
	8.8 8.0	0 2000	33.3 30.2	0 138
Hydraulic Relief Valve Pressure	2,150 PSI (148 BAR)			

Hydraulic Power Pack Accessories

Part Number	Description
08675858	Hydraulic Hose Kit, 20' (6 m) Hose with Couplings
08780384	Hydraulic Hose with flow control manifold (GS400)
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

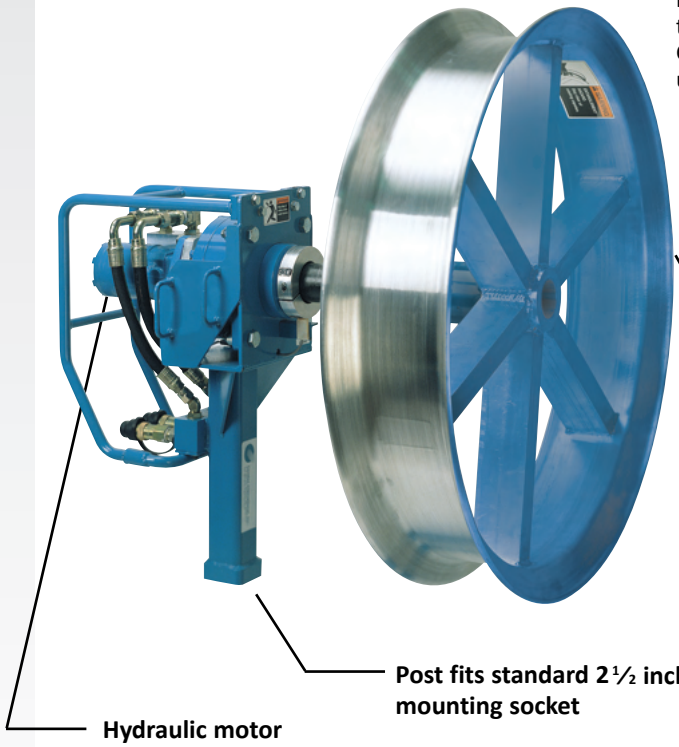


Dust Caps Couplings

FIBER OPTIC CABLE PULLER

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.





Standard Features

These pullers consist of a hydraulic motor and variable speed foot control. All pullers are calibrated for a maximum pull tension of 600 lbs on a 30" capstan; maximum pull tension can be adjusted using the manually adjustable pressure relief valve.

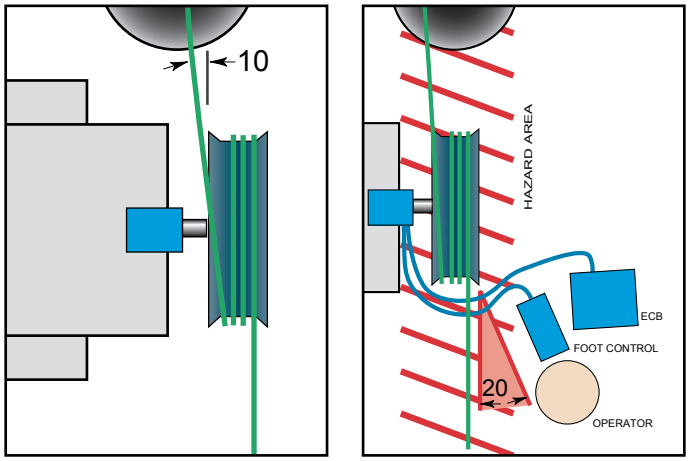
Optional Features

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 104-105).

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.

Recommended Hydraulic Power Source Specifications	
Pressure	0-2,000 psi (0-138 bar)
Flow	0-8 gpm (0-30 lpm)
Peak Power	13 HP (9.7 kW)

Fiber Optic Cable Puller Performance										
Capstan Diameter	12 in (305 mm)		30 in (762 mm)		42 in (1,067 mm)		50 in (1,270 mm)		62 in (1,575 mm)	
Max. Pulling Force	lbs	N	lbs	N	lbs	N	lbs	N	lbs	N
	2,000	8,900	900	4,000	600	2,670	540	2,400	430	1,910
Max. Pulling Speed*	ft/min	m/min	ft/min	m/min	ft/min	m/min	ft/min	m/min	ft/min	m/min
	98	30	240	74	340	100	410	120	500	150

FIBER OPTIC CABLE PULLER



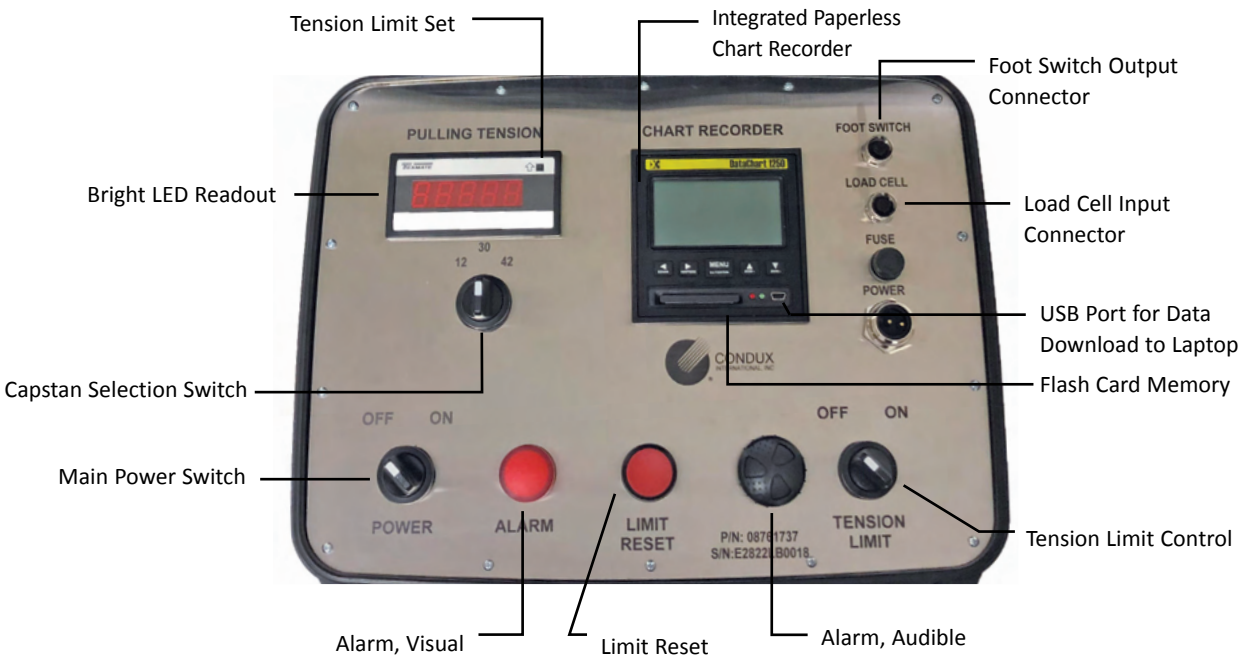
Electronic Control Box

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 Controls: Easy, Informational, Durable



FIBER OPTIC CABLE PULLER PACKAGES

Fiber Optic Cable Pulling Packages

A complete fiber optic cable pulling jobsite setup requires a Fiber Optic Cable Puller (with foot control and hoses), a capstan, a puller mount, and a hydraulic power source. These components are purchased separately; the options for pullers, capstans, and mounts are listed below. Condux recommends a hydraulic power source capable of up to 8 gpm (30 lpm) and 2000 psi (138 bar) for use with the Fiber Optic Cable Puller (see page 101 for hydraulic power pack listings).



Fiber Optic Cable Pullers

Base Part Number	Description
08690002	Fiber Optic Puller - Includes Puller, Foot Control and Hoses.

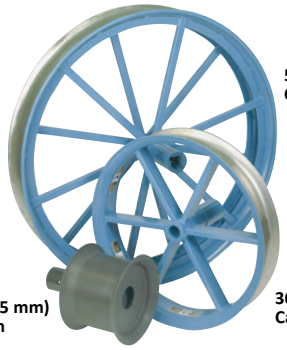
Base Part Number	Description
08690056	Fiber Optic Puller with ECB - Includes Puller, Foot Control, Hoses, and Electronic Control Box.

Capstans

For a standard 2 7/16" diameter bayonet style shaft.

Part Number	Diameter (in)	Diameter (mm)	Flat Width (in)	Flat Width (mm)	Max. Cable O.D. (in)	Max. Cable O.D. (mm)	Load Rating (lbs)	Load Rating (kN)
08675213*	12	305	9	229	-	-	2,000	8.9
08675230	30	762	4	102	0.75	19	1,000	4.4
08675430	30	762	8	203	0.75	19	600	2.7
08675436	42	1,067	8	203	1.05	27	600	2.7
08675220	50	1,270	8	203	1.25	32	600	2.7
08675275	62	1,575	8	203	1.55	39	600	2.7

* Not to be used for fiber optic cable. Intended for pulling innerduct, power, telephone or coaxial cables.



50" (1,270 mm) Capstan

12" (305 mm) Capstan

30" (762 mm) Capstan

Fiber Optic Cable Puller Mounts

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.

Part Number	Description
08675115	Remote Mounting Stand
08675282	Wide Remote Mounting Stand (required for 62" capstan)

Fiber Optic Cable Puller Hitch Mount

The Hitch Mount attaches directly into a typical 2" (51 mm) square Reese-type receiver. 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

A special plug drives into wood poles for added stability. Includes all mounting hardware.

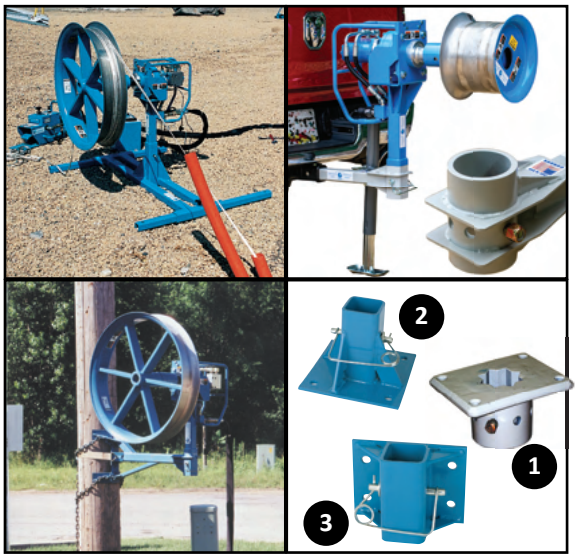
Part Number	Description
08676000	Pole Mounting Frame and hardware

Mounting Sockets

Part Number	Description
02260801	Floor Socket Mount, cast
08675130	Base Mount
08675138	Side Mount

Remote Mounting Stand

Fiber Optic Puller Hitch Mount



Adjustable Hitch Mount 22.5°

Pole Mounting Frame

Mounting Sockets
1-Floor Socket Mount
2-Base Mount
3-Side Mount

FIBER OPTIC CABLE PULLER ACCESSORIES





Fiber Optic Cable Puller Package Upgrade Kit

Part Number	Description
08675920	Electronic Control Box Kit - For 12", 30", & 42" Capstans, Includes Chart Recorder and Load Cell
08761741	Electronic Control Box Kit - For 50", & 62" Capstans, Includes Chart Recorder and Load Cell

ECB Replacement Parts

Part Number	Description
02286416	2 Pin Extension Cord
02290108	Cord, Footswitch
08677375	Cord, Load Cell
08761248	Plug, Lighter Cord



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.

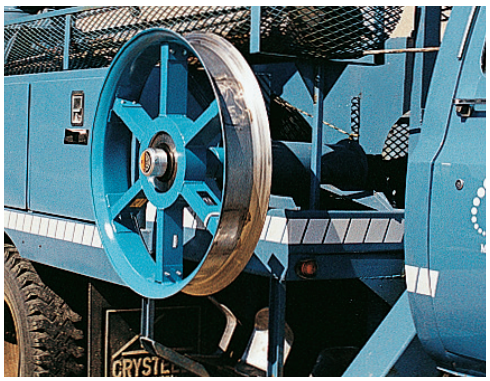
Number	Description
02261000	1,000 lb (454 kg) Calibration Dynamometer
02261040	4,000 lb (1814 kg) Calibration Dynamometer

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) ± 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.

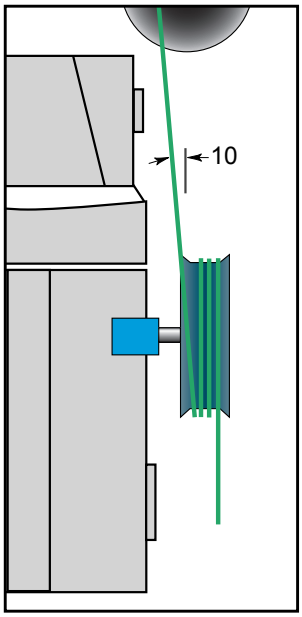
The capstan is designed for use with a 2 7/16" (62 mm) diameter, AT&T specification bayonet style power take-off (PTO) shaft.

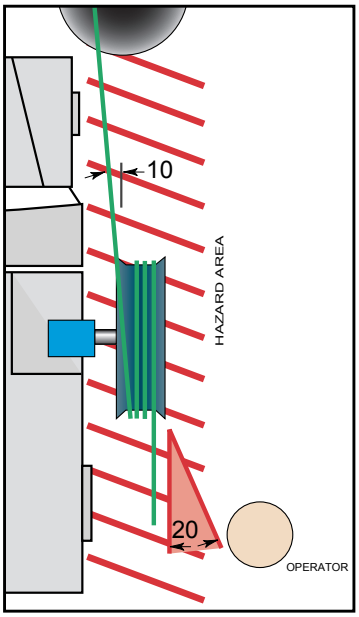


Part Number	Diameter (in)	Diameter (mm)	Flat Width (in)	Flat Width (mm)	Max. Cable O.D. (in)	Max. Cable O.D. (mm)	Rating (lbs)	Rating (N)
08760030-06	30	762	4	102	.75	19	600	2670
08760040-06	42	1,067	8	203	1.05	26.7	600	2670
08760050-06	50	1,270	8	203	1.25	32.5	600	2670



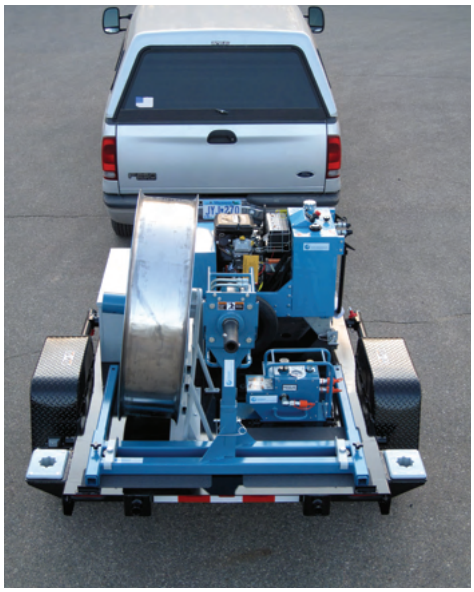






FIBER OPTIC CABLE PULLER TRAILER





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 built-in cable puller mounts on the left and right rear corners.

Options include a choice of two Condux Fiber Optic Cable Puller packages, choice of four capstans, a 13 HP (9.7 kW) Power Pack and a Remote Mounting Stand. 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 the **Base Part Number** shown below and also choose accessory options by part number when placing your order. All items are priced individually.

Base Part Number	Description
08675675	**Open Style Fiber Optic Cable Pulling Trailer** (Includes: Trailer Flat Assembly, Wheel Chocks and Tool Box) *Some assembly required

Choose one selection from each category:

1 Fiber Optic Cable Puller Options:
(Includes Foot Control and Hoses)

Part Number	Description
08690002	Fiber Optic Cable Puller without Electronics
08690056	Fiber Optic Cable Puller with Electronic Control Box and Paperless Chart Recorder

2 Capstan Options:

Part Number	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; 8" (203 mm) wide
08675220	50" (1,270 mm) Capstan; 8" (203 mm) wide

3 Power Pack Option:

Part Number	Description
08675702	13 HP (9.7 kW) Power Pack, Gas

4 Stand Option:

Part Number	Description
08675115	Remote Mounting Stand

Complete Fiber Optic Puller Trailer Packages

Packages include puller, capstan, remote mounting stand, and hydraulic power pack assembled on trailer.

Part Number	Description
08675740	30x4 Fiber Optic Puller/Trailer/Capstan Pkg
08675742	30x8 Fiber Optic Puller/Trailer/Capstan Pkg
08675744	42x8 Fiber Optic Puller/Trailer/Capstan Pkg
08675746	50x8 Fiber Optic Puller/Trailer/Capstan Pkg



FIBER OPTIC CABLE PULLER TRAILER

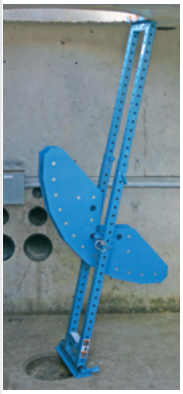


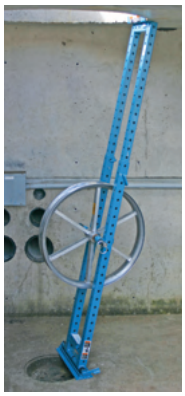
Power Supply	
Engine	HP Honda GX390
Horsepower	13hp @ 3600 rpm 11.9 kW @ 3600 rpm
Starting	Electric
Fuel	Unleaded Gas, 85 Octane Min, 10% or less ehanol blend
Fuel Capacity	1.6 gallons (6.4 L)
Speed Control	Variable

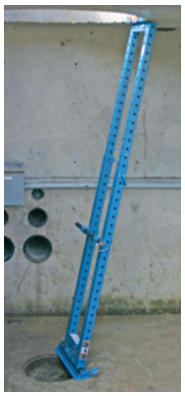
Hydraulics	
Capacity	8.0 gpm @ 2,000 psi (30.2 lpm @ 138 bar)
Reservoir	5.0 gallons (18.9 L)
Filtration	10 micron return line canister type
Hydraulic Oil Requirements	petro based, anti-wear, high viscositites over 140
Hydraulic Relief Valve Pressure	2,150 psi (148.3 bar)

Stand Alone Trailer Specifications	
Weight	800 lbs (363 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	48" (1,219 mm)
Hitch	3" (76 mm) Lunette Eye
Lighting	7 Pin Connector
Electronics	12 VDC

FIBER OPTIC JAMB SKID AND CABLE GUIDES







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 strong, 1,000 lbs. (4,480 N) load rated, and lightweight, can be installed by one person.

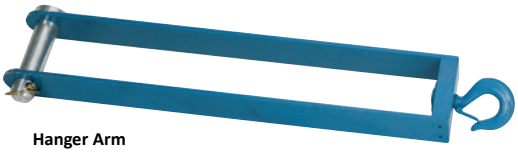
		Manhole Height Range	
Part Number	**Description**	**(in)**	**(mm)**
08097100	46" (1,168 mm) Base Section with locking pins		
08097200	43" (1,092 mm) Extension	49–80	1,244–2,032



Fiber Optic Quadrant Block

Protects fiber optic cable during installation. Pulling radius of 26" (660 mm); 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 74). Replacement Sheaves available.

Part Number	**Description**
08539350	Quadrant Block
08539308	Replacement Sheave



Hanger Arm

Hanger Arms

Allows the hanging of the Fiber Optic Quadrant Block in a manhole for more flexible positioning.

Part Number	**Description**
08539320	Hanger Arm



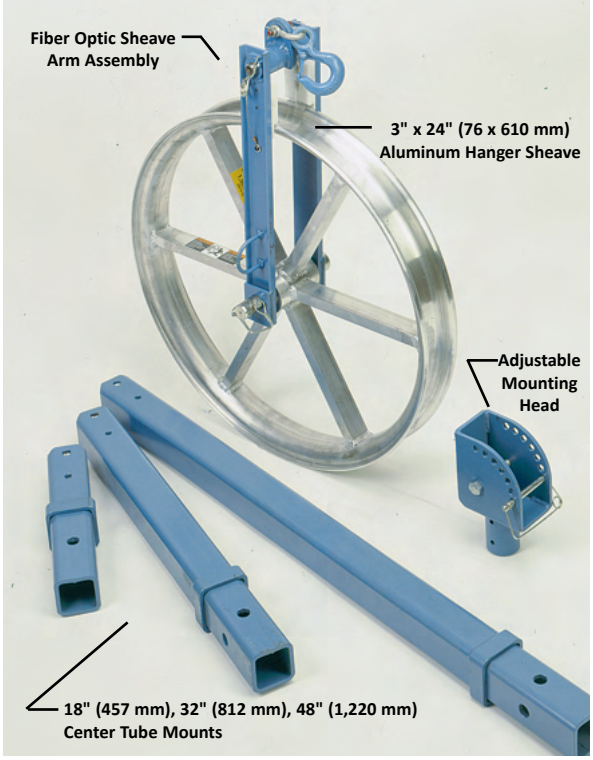
Fiber Optic Hanger Block

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.

Part Number	**Description**
08539550	Hanger Block
08539308	Replacement Sheave

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 or Mounting Sockets (see page 105).



Package 1

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 105 for details)

Fiber Optic Sheave Mount Packages

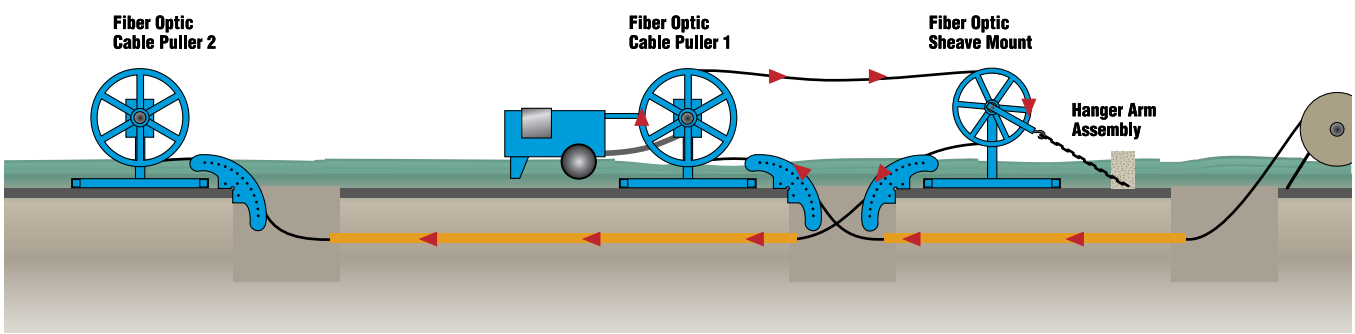
Part Number	Description
08637930	Adjustable Fiber Optic Sheave Mount, Pkg 1 Includes mounting head, all 3 mounting tubes, sheave and sheave arm assembly.
08637940	Adjustable Fiber Optic Sheave Mount, Pkg 2 Includes everything in Pkg 1 except the sheave arm assembly.







Package 2

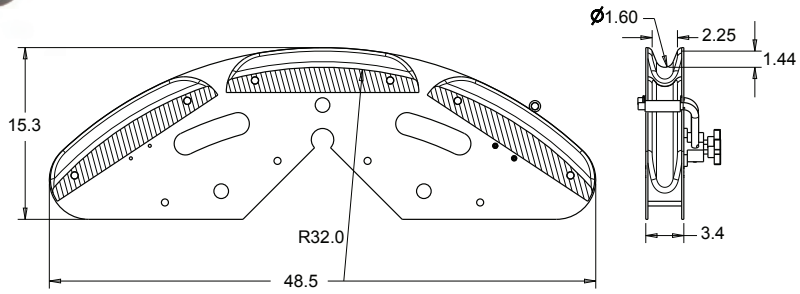


UHFC (ULTRA-HIGH FIBER COUNT) CABLE GUIDES



64 Inch Diameter 32 Inch Quad Block

Our latest Fiber Optic Quad Block protects high density fiber count cable during installation. Replacing traditional aluminum rollers with three sections of high density nylon provides over 45 contact inches of cable support - significantly reducing the occurrence of micro bends during installation. The 64" (81 cm) pulling diameter allows cables up to 1.60" (4.1 cm) to make a gradual 90° turn for stress free pulling. Lightweight, corrosion-resistant aluminum side plates reduce the weight to a very manageable 37 lb (16.8 kg).



Part Number	Description	Max Fiber Cable Diameter*	Rated Load	Length	Height	Width	Weight
08539715	64" Fiber Quad Block	1.6 in/4.1 cm	600 lb/272 kg	48.5 in/123.2 cm	15.3 in/38.9 cm	3.4 in/8.6 cm	37 lb/16.8 kg

* Always refer to mfg's specifications for minimum bend radius under tension during installation.



36 Inch and 45 Inch Diameter Split Sheaves for Fiber Optic Cable

These larger diameter split sheaves are designed for safe installation of high fiber count cables in multiple applications. High fiber count cables require larger diameter service equipment so to not violate the minimum bend radius of the cable. Split sheaves can be easily carried below the surface in two pieces and then quickly assembled making them among the most versatile on the market and an ideal solution for mid-point installation situations. Available with or without hanger brackets adds even more flexibility to the installation process.

Features:

- Deep cable races that protect and cradle the cable on the sheave
- Meets minimum bend radius requirements of most fiber optic cables
- Alignment markings and 4 tethered thumb screws make reassembly fast
- Self-lubricating bearings
- Cable retention guide pins

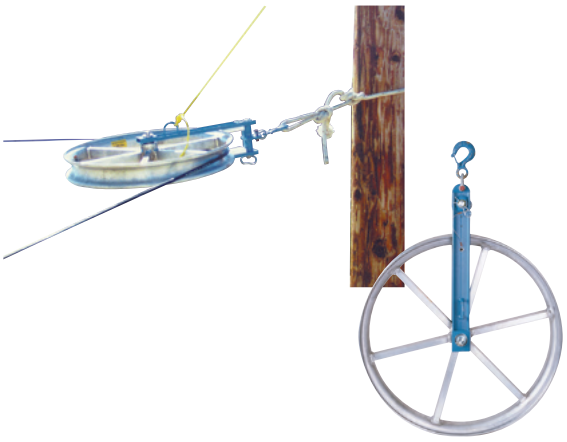
Part Number	Description	Max Fiber Cable Diameter	Sheave Land Width	Sheave Diameter	Weight	Rated Load
08637500	36" Split Sheave	0.9 in/2.3 cm	3.3 in/8.3 cm	36 in/91.4 cm	31 lb/14 kg	600 lb/272 kg
08637501	36" Split Sheave w/ Hanger Brackets	0.9 in/2.3 cm	3.3 in/8.3 cm	36 in/91.4 cm	59 lb/27 kg	600 lb/272 kg
08637505	45" Split Sheave	1.125 in/2.9 cm	3.3 in/8.3 cm	45 in/114.3 cm	38 lb/17 kg	600 lb/272 kg
08637506	45" Split Sheave w/ Hanger Brackets	1.125 in/2.9 cm	3.3 in/8.3 cm	45 in/114.3 cm	69 lb/31 kg	600 lb/272 kg

* Always refer to mfg's specifications for minimum bend radius under tension during installation.

Overhead Fiber Optic Cable Sheave

Specially designed 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.

24-inch (610 mm) sheave diameter allows 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.



Part Number	Description
08637825	24" (610 mm) Overhead Fiber Optic Cable Sheave
08637743	Replacement 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.



Part Number	Description
08637800	Underground Fiber Optic Cable Sheave **NOTE**: Sheave Size 24" O.D.
08637806	Replacement Tie-Off Arm
08637743	Replacement Sheave

CABLE CUTTERS



TurboSlitter™

The TurboSlitter™ from Condux can easily split HDPE pipe with wall thicknesses ranging from 0.097 to 0.216 inches! The cordless drill attachment quickly adjusts to fit almost any cordless drill. Save time and effort on the job with the TurboSlitter from Condux. Cordless drill not included.

Part No.	Description
08010220	TurboSlitter-Cordless Drill Attachment • Drill Attachment • Lightweight shear head for easy one-hand control • Telescoping clamp fits large or small drill housing
08010203	Replacement Blades



08010220



Shown assembled on drill with case.



Microduct Cutter

The Condux Microduct Cutter is capable of cutting duct ranging from 3 mm to 18 mm. This cutter is designed specifically to ensure a quick cut, leaving your duct un-crushed and kink free.

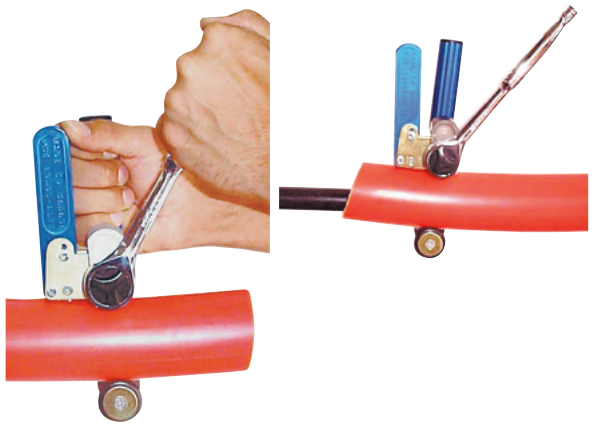
Part Number	Description
08783315	Micro Duct Cutter

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 1¼" (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

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 1¼" (32 mm) conduit with 1½" (38 mm) O.D.
08948074	Large diameter—up to 2" (51 mm) conduit with 2⅜" (60 mm) O.D.
08948075	Replacement Blade for Large Diameter Cutter

Cable Bender

Bends power cable up to 750 kcmil with a 1¼" (32 mm) maximum cable diameter.



Part Number	Description
08090000	Cable Bender

CABLE CUTTERS





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.

Condux also offers replacement blades for this cable cutter.

Part No.	Description	Cuts (max. kcmil) Copper/Alum.	Max Dia. (in)	(mm)
08014000	Cutter	600–750	1¾	44
08014001	Replacement blade			





Cable Stripper/Slitter

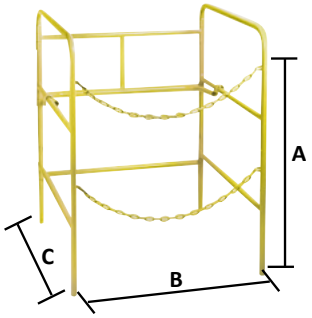
Condux offers two sizes of the Stripper/Slitter for easy and rapid preparation of round cables from .18 (5 mm) up to 1.42 inch (36 mm) in diameter and 8 AWG up to 500 kcmil. They feature a spring-loaded cable support arm with a beveled leading edge that assists with insulation removal. The blade swivels to facilitate circular, longitudinal and spiral cuts.

Part No.	Description	Cutting Depth (in)	(mm)	Max Dia. (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 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 (in)	A Height (mm)	B Length (in)	B Length (mm)	C Width (in)	C Width (mm)	Weight (lbs)	Weight (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



Manhole Cover Lifting Hooks

Part Number	Length (in)	Length (mm)
08023000	24	610
08023002	36	914
08023003*	36	914
08023005**	30	762

*36" long, 90° hook.
**30" long, 90° hook



08023002

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. Length is 26 ¾".

Part Number	Description
08023012	Hand Hole Hook, no Socket
08023010	Hand Hole Hook with Socket
02290772	⅞" Hex/Penta Socket (1 pc - Reversible)

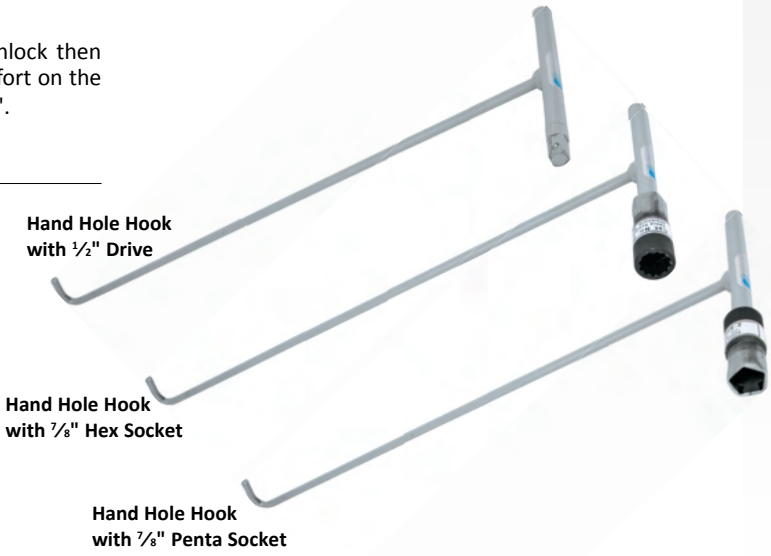


⅞" Hex Socket



⅞" Penta Socket

02290772



Hand Hole Hook with ½" Drive

Hand Hole Hook with ⅞" Hex Socket

Hand Hole Hook with ⅞" Penta Socket

DUCT PLUGS



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.

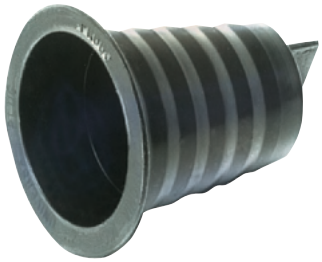
Part Number	Size (in)	Conduit I.D. Range (in)	Conduit I.D. Range (mm)	Cable O.D. Range (in)	Cable O.D. Range (mm)	Box Qty
08043960	1	1.05–1.13	27–29	.35–.57	9–14	20
08043961	1	1.05–1.13	27–29	.51–.71	13–18	20
08043962	1¼	1.28–1.36	33–35	.35–.57	9–14	20
08043963	1¼	1.28–1.36	33–35	.51–.71	13–18	20
08043964	1¼	1.28–1.36	33–35	.71–.84	18–21	20
08043965	1½	1.46–1.56	37–40	.35–.57	9–14	20
08043966	1½	1.46–1.56	37–40	.51–.71	13–18	20
08043968	2	1.92–2.06	49–52	.25–.51	6–13	20
08043969	2	1.92–2.06	49–52	.52–.75	13–19	20



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 20 psi.

Part Number	Size (in)	Conduit I.D. Range (in)	Conduit I.D. Range (mm)	Box Qty
08067825	2½	2.30–2.99	58–76	30
08067830	3	2.92–3.45	74–88	30
08067840	4	3.94–4.33	100–110	30
08067850	5	4.85–5.25	123–133	20
08067860	6	5.98–6.38	152–162	20



Taper of Universal Plugs

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 (in)	Conduit I.D. Range (in)	Conduit I.D. Range (mm)	Box Qty
08047400	2	1.53–2.69	39–68	100
08047500	3	2.61–4.01	66–102	80
08047601	4	3.78–5.35	96–136	50
08047700	5	4.50–6.13	114–156	40
08047800	6	5.56–7.00	141–178	30



Innerduct Plug

Sold in boxes of 50.

Part Number	Nominal Duct Size (in)	Conduit I.D. Range (in)	Conduit I.D. Range (mm)	Box Qty
08067811	1	0.99-1.39	25-35	50
08067812	1¼	1.16-1.51	29-38	50
08067814	1½	1.46-1.83	37-46	50
08067820	2	1.83-2.39	46-61	50

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 three 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 closure**
- **Window / vent with closing flap**
- **Exhaust port**
- **12" (305 mm) skirt around the base**
- **Built-in wind lines for tethering**



Easy set-up

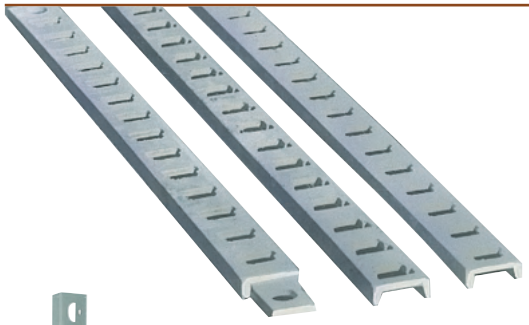






Part Number	Description	Dimensions (Set Up) ft (m)	Dimensions (Packed) ft (m)	Weight lbs (kg)	Door Size ft (m)	Window/Vent Size in (mm)	Exhaust Port Diameter in (mm)
08672500	6 x 6 tent w/ velcro door	6 x 6 x 6.5 (1.8 x 1.8 x 2)	8 x 69 (203 x 1,753)	32 (15)	4 (1.2)	12 x 36 (305 x 914)	10 (254)
08672600	8 x 8 tent w/ velcro door	8 x 8 x 7.5 (2.4 x 2.4 x 2.4)	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)

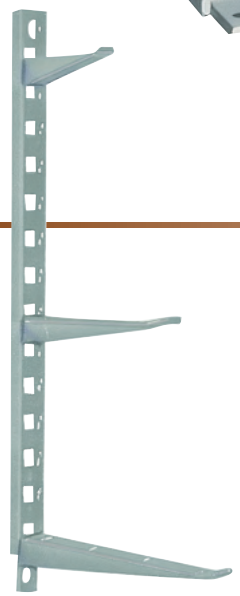
MANHOLE EQUIPMENT & ACCESSORIES



Cable Racks

Supports cable runs in manholes and vaults. Made of 1½" x 9/16" x 3/16" (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 19/32" 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. 121).

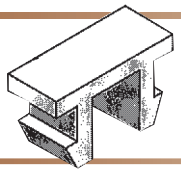
Part Number	Support Holes	Length (in)	Length (mm)	Bolt Hole Spacing (in)	Bolt Hole Spacing (mm)
08380000	8	15	381	13½	343
08380100	14	24	610	22½	572
08380200	18	30	762	28½	724
08380300	37	55¼	1,403	-	-
08380400	43	64¼	1,631	-	-
08383500	47	70¼	1,784	-	-



Cable Rack Hooks

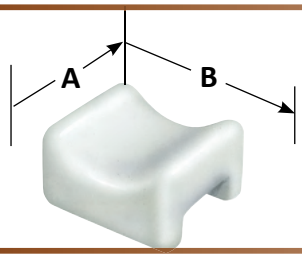
Designed to fit snugly into the rack slots. Turned up ends prevent cable or rack insulators from slipping off. Manufactured from 3/16" (5 mm) steel and hot dip galvanized with smooth surfaces to prevent cable damage. Cable rack hooks load rated to 300 lbs.

Part Number	Ext. (in)	Ext. (mm)
08380600	4	102
08380700	7½	190
08380800	10	254
08380900	14	356
08381000	18	457



Plastic Retaining Clip

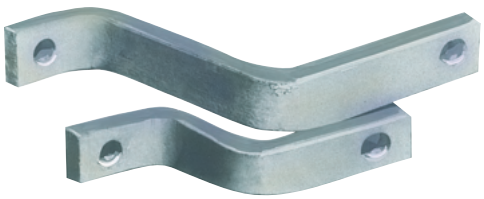
Part Number	Description
08381210	Plastic Retaining Clip



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 (in)	Groove Radius (mm)	Groove (A) Width (in)	Groove (A) Width (mm)	Groove (B) Width (in)	Groove (B) Width (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. 121).

Part Number	Steel Size (in)	Steel Size (mm)	Ext. from wall (in)	Ext. from wall (mm)
08381500	.5 x 1.00	13 x 25	3⅝	89
08383900	.5 x 1.00	13 x 25	6 9/16	165
08383800	.5 x 1.25	13 x 32	6 9/16	165



Corner Rack Support

To bolt the racks at manhole corners. Mounting bolt holes for ½" or M12 bolts (see pg. 121). 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

Manhole Ladders—Wall Mount

All ladders are manufactured of steel. The rungs pass through the side rails and are riveted or welded.

Features:

- ⅝" (16 mm) diameter deformed rungs on 12" (305 mm) centers
- 14" (356 mm) clear between side rails
- 2 x 1 x ⅛" (51 x 25 x 3 mm) channel side rails
- Furnished with 4 unattached floor/ceiling brackets
- Wall mounting brackets may be used (sold separately)
- Approx. weight is 5.5 lbs. (2.5 kg) per foot of length

Part Number	Description
08382001	Manhole Ladder, wall mount, 7.0' (2.1 m) long
08382101	Manhole Ladder, wall mount, 8.0' (2.4 m) long
08382301	Manhole Ladder, wall mount, 10.0' (3.0 m) long
08382501	Manhole Ladder, wall mount, 12.0' (3.7 m) long
08382701	Manhole Ladder, wall mount, 14.0' (4.3 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

Optional Wall Brackets

Part Number	Description
08382902	7" (178 mm) offset

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.



Features:

- ⅝" (16 mm) diameter knurled rungs on 12" (305 mm) centers
- 12" (305 mm) clear between side rails
- ⅜ x 1½" (10 x 38 mm) side rails, through 12' (3.7 m) lengths
- ⅜ x 2½" (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
08382100	Manhole Ladder, 8.0' (2.4 m) long
08382300	Manhole Ladder, 10.0' (3.0 m) long
08382500	Manhole Ladder, 12.0' (3.7 m) long
08382700	Manhole Ladder, 14.0' (4.3 m) long
08382900	Manhole Ladder, 16.0' (4.9 m) long
08384200	Manhole Ladder, 20.0' (6.1 m) long

! Ladders are hot dip galvanized. Rated at 300 lbs (136 kg).

! 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 ⅞" (22 mm) diameter steel and hot dip galvanized. 40,000 lbs load rating.

Part Number	Description
08381301	12" (305 mm) w/cross bar & retaining plate



! ORDER CAREFULLY! This item is made-to-order and is not returnable.

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 (lbs)	Tension (N)	Shear (lbs)	Shear (N)
08409900	¾"- 10 UNC Threads	4,010	17,836	4,400	19,571
08409901	⅝"- 11 UNC Threads	2,420	10,764	3,050	13,566
08409902	½"- 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.



Mounting Hardware

Part Number	Description
02063303	Capscrew, ½–13 x 1.25", grade 5, hot galvanized
12008202	Capscrew, ½–13 x 1.50", grade 5, hot galvanized
12022003	Capscrew, ½–13 x 1.75", grade 2, hot galvanized
08384800	Capscrew, ½–13 x 2.00", grade 5, hot galvanized
02155703	Capscrew, ½–13 x 2.50", grade 2, hot galvanized
02010003	Lockwasher, ½", hot galvanized
12008303	Flatwasher, ½", hot galvanized
02125103	Hex Nut, ½–13, hot galvanized

NOTES

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, and Directional Drilling Break-Away Swivels, 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**
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