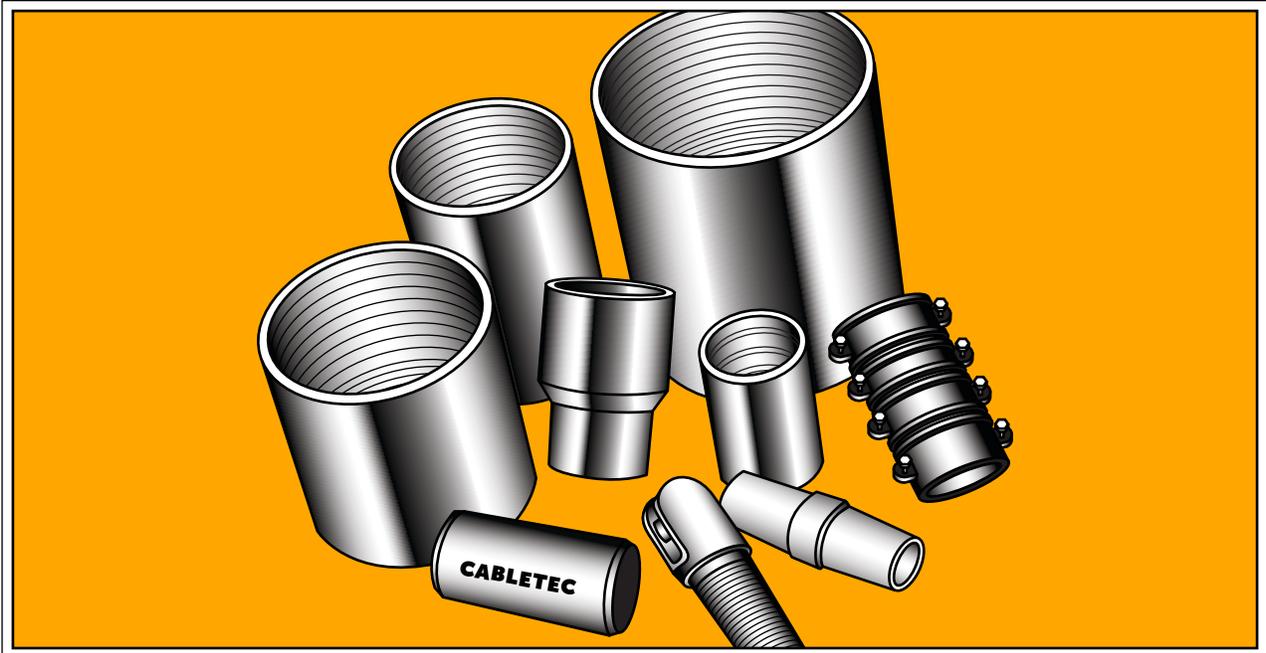




CABLETEC[®]
Linking Today with the Future!



CABLETEC® COUPLINGS

User Engineered for Speed, Reliability and Economy!

Cabletec couplings for HDPE inner duct have become a time-honored component in building today's vast fiber optic networks. This brochure details Cabletec's current line of machined and molded couplings. Every product we design and make provides a user-tested solution to the challenges of connecting inner duct faster, easier and better.

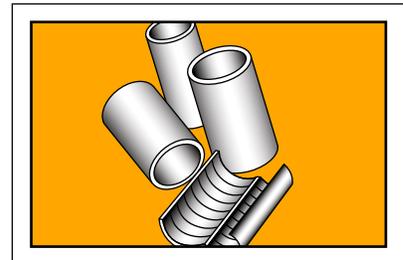
We believe our current line and inventory of standard and specialty couplings is the largest, most carefully engineered and most competitively priced of any domestic manufacturer. We manufacture couplings in a size range from 3/4" to 6" in a wide variety of materials including aluminum, ABS, PVC and engineered plastics. Our production and stocking program is tailored to provide next day delivery on most products.

Our computerized controlled threading equipment gives us the flexibility to

produce short runs or specialty couplings with the same efficiency as our standard products. The tempered 6061-T6 tube that we use for our aluminum couplings is extruded from the custom dies to a machine-ready size. This eliminates waste of raw material, increases production output and allows us to maintain coupling walls that won't crush or deform. Most importantly, it means our customers pay less for a quality product that is made right to work right!

In designing a coupling, we not only consider how easy it will start to thread and how much it will hold, but what its true in-place cost will be to the end user. The wide pitch thread we use in our reverse thread couplings, for example, allows the couplings to be threaded on with half the rotations in half the time as some competitive couplings. Design features like these save time and money at every connection.

Cabletec manufactures a wide range of internal and external plastic couplings to meet a variety of applications!



Since 1983, Cabletec has been committed to total customer satisfaction. Whether you are a new customer or a large established account, your order will be processed with the utmost diligence and efficiency. Investigate our pricing and service and see why Cabletec should be your single source for all your coupling needs.

For further information and literature on Cabletec Systems, write, call, FAX, or check out our website:

 **CABLETEC®** / 1744 Forrest Way / Carson City, NV 89706 / (775) 841-5444 / FAX (775) 841-0342
www.cable-tec.com

Cabletec® Barbed Ring THREAD ON AIRTIGHT COUPLINGS:

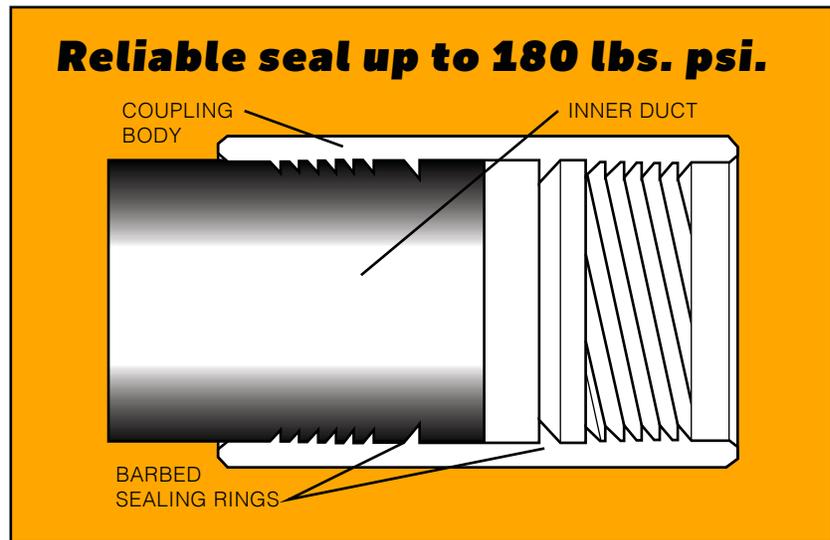
This series of aluminum airtight couplings incorporates the same reliable, full circumference seal used in our barbed ring compression couplings, but unlike other one piece plastic or aluminum compression couplings that have to be installed with some type of coupling press, Cabletec's barbed ring thread on coupling can be installed like any ordinary reverse thread coupling.

Instead of a coupling press, a special wide, eight pitch, fast traveling thread is used to force the inner duct over the barbed ring seal. From a user's standpoint, the coupling would be installed exactly like an ordinary reverse thread coupling. Another important feature of the coupling is that the outside diameters are small enough to allow these couplings to be pulled into primary ducts or through plow chutes.

These barbed ring couplings permit tensile loadings as high as conventional reverse couplings and provide a positive reliable seal up to 180 lbs. psi. Being a machined

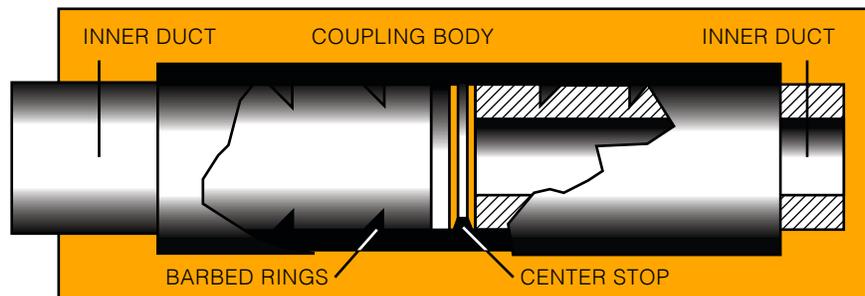
product, these couplings can be sized for the exact outside diameter of any inner duct. The amount of interference designed into the fit of the coupling will accommodate the .012-.015 manufacturing tolerances allowed in the outside diameter of the inner duct.

Eliminating the cost of special tools combined with a faster installation make the in-place cost of these couplings as economical as any compression type airtight coupling.



Cabletec Barbed Ring COMPRESSION COUPLINGS:

This innovative coupling design combines the advantages of low cost, reliability, and a fast time saving method of installation. Each of the barbed rings functions as a separate full circumference seal providing double protection against air or water passing through the connection. The sharp barbs bite into the body of the duct creating a connection having both high internal and external sealing capability and exceptional pull out strength. Sealing and tensile efficiency of the couplings actually improves as internal air pressure in the duct increases during the cable placement operation. These couplings are made for our standard size range of SDR inner duct.

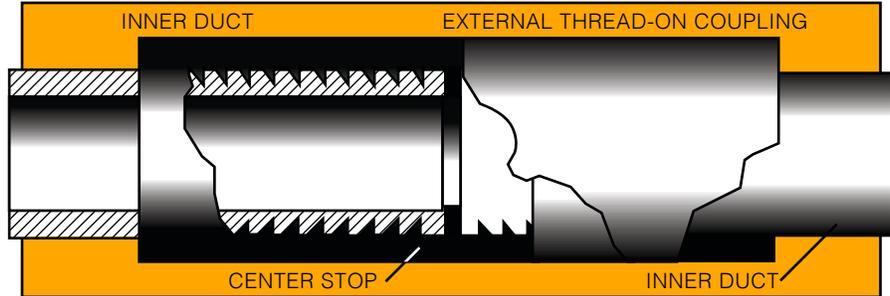


Being a compression type fitting, the couplings must be pushed onto the inner duct under a compression load sufficient to cause the barbs to bite into the duct which requires the use of a Cabletec hydraulic coupling press. A mechanically assisted installation procedure insures each coupling is installed properly, thereby, increasing the overall reliability of every connection.

NOTE: In all illustrations, threads are exaggerated to show detail.

Cabletec® External Thread On Couplings:

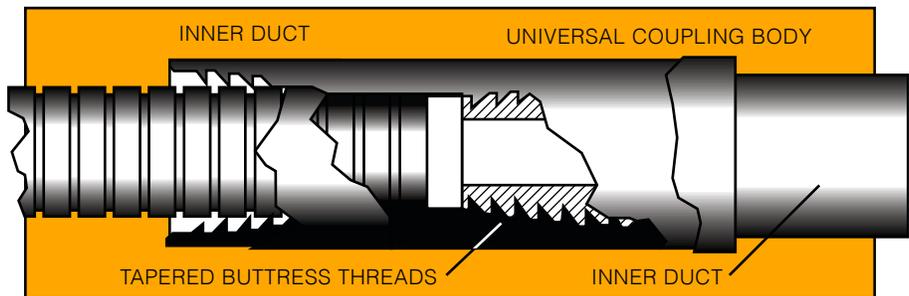
The right hand/left hand reverse thread aluminum couplings are our most economical and versatile couplings for polyethylene inner duct. The couplings work equally well for smooth wall, corrugated or ribbed type inner duct, and are made in all sizes of SDR inner ducts from 3/4" to 6". Thread-on couplings can be installed by hand or with a Cabletec hydraulic powered coupling press. The sharp



buttress type threads withstand high pulling loads that meet or exceed the Bellcore tensile standard of 1000 lbs. These couplings incorporate a wide, eight pitch angle, which greatly reduces the number of revolutions necessary to install the couplings. These versatile couplings can be used in manholes, direct bury, aerial, or any application except where an air tight connection is required.

Cabletec® Tapered Universal Couplings:

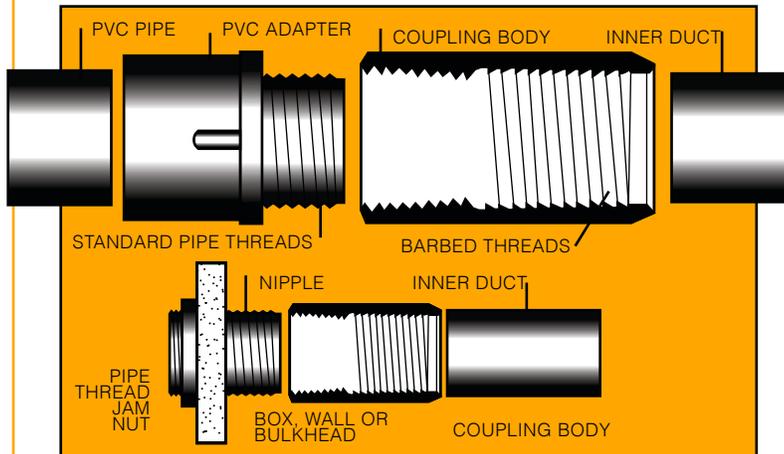
Cabletec's Universal Couplings can be used as general-purpose couplings, but they have particular application in situations where the conduit system is constructed with a variety of different types or sizes of inner duct. The couplings are made like our standard reverse thread couplings except these couplings have a 2 1/2 degree taper. The additional taper accommodates a wide variation in the outside diameter of the duct while still having enough thread engagement to give the couplings good pullout strength. The four standard sizes of couplings in this



series will connect a wide range of SIDR and SDR innerduct from 1" to 2". Additional sizes include 3", 4", and 6". The couplings work equally well with corrugated, ribbed or smooth-walled conduit. Cabletec Tapered Universal Couplings are widely used in repair work and are a practical, inexpensive way of reducing inventory costs and are sized as followed:

PART NO.	NOMINAL SIZE	SIZE RANGE
UNIVERSAL 1"	1"	1.180-1.420
UNIVERSAL 1 1/4"	1 1/4"	1.450-1.700
UNIVERSAL 1 1/2"	1 1/2"	1.760-2.0
UNIVERSAL 2"	2"	2.250-2.500

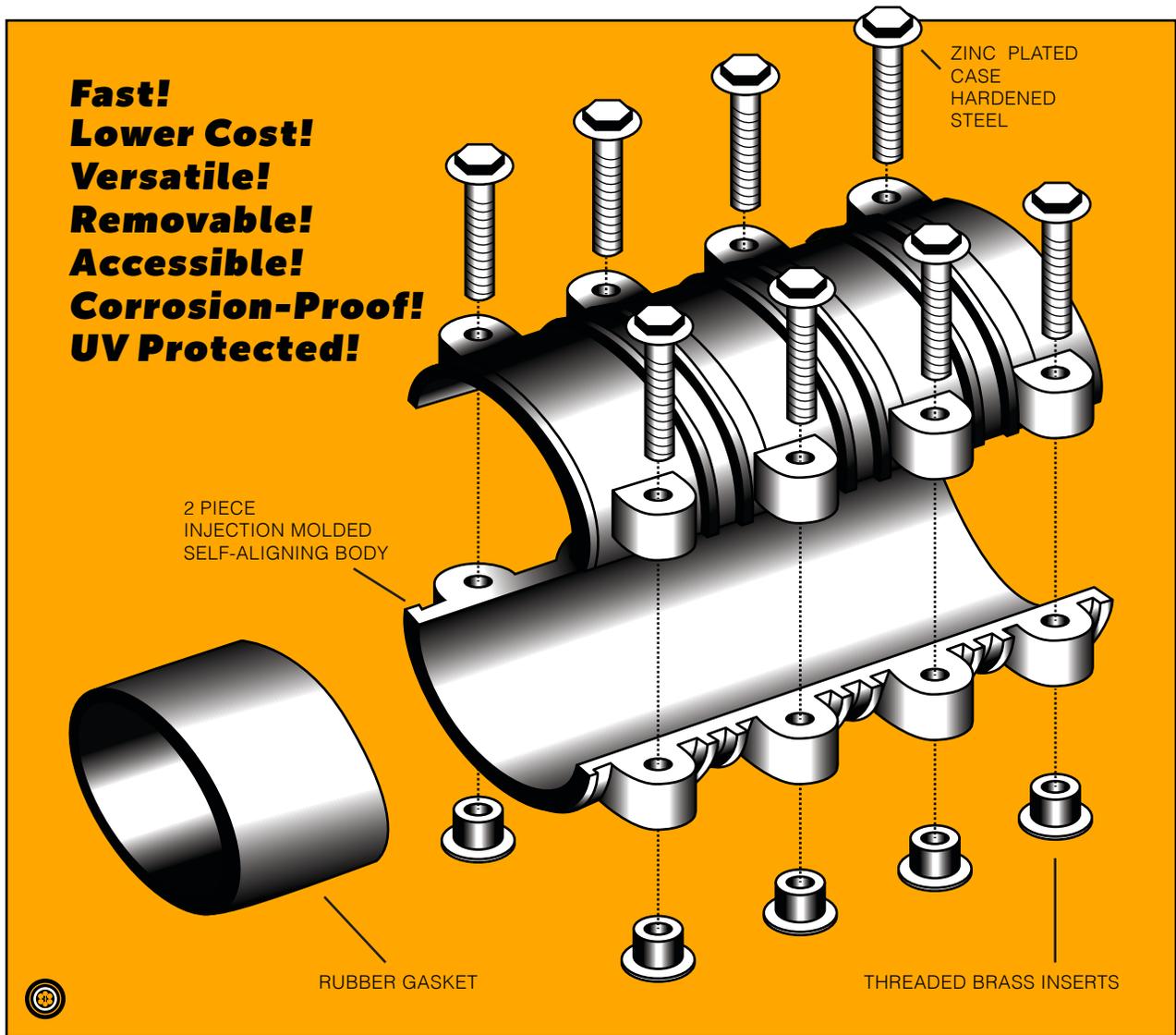
Cabletec® PE-PVC Transition Couplings:



Cabletec's PE-PVC Transition couplings were designed as a simple economical solution to the problem of connecting polyethylene duct to standard IPS metal or PVC pipe or fittings. The couplings are airtight to 180 lbs. psi, have high pullout strength and easily handle the leverage stresses exerted from connecting large radius sweeps and full-length pipe sections. The design has left hand threads on the polyethylene end of the coupling. This will cause, when installing the female pipe thread, the left hand threads to tighten further on the pipe. The other end of the coupling is machined with regular IPS female pipe threads to accept a male to female PVC pipe adapter. The male end of the adapter is screwed into the coupling and the PVC pipe or sweep is glued into the female end of the adapter.

The top left illustration shows how the transition coupling would be connected to a PVC pipe or sweep. The lower illustration shows an application where the coupling is fitted with a short PVC or metal electrical nipple to allow polyethylene conduit to be installed through a bulkhead or some type of box enclosure. Metal conduit pipe and fittings can also be used with the transition couplings.

**Fast!
Lower Cost!
Versatile!
Removable!
Accessible!
Corrosion-Proof!
UV Protected!**



**Cabletec®
PLASTIC REMOVABLE COUPLINGS:**

This series of reusable airtight molded couplings was introduced specifically to replace the costly two-piece metal couplings. Injection molded and UV resistant glass fiber reinforced nylon, are ideally suited for both aerial and underground applications.

The couplings are removable and lightweight, sealing completely to 200 lbs PSI and are guaranteed to handle tensile loads up to 600 lbs. The coupling has now been improved for maximum reusability. No longer will you have to throw them away after a couple of uses! We have installed a standard 10-24 brass insert for more reliable threads. One can easily replace our off the shelf zinc plated for extra corrosion resistance screws for stainless steel fasteners if one needs that "extra" protection from the environment. The gasket feature also allows for a .020" to .030" variation in the outside diameter of the inner duct and can easily be installed with either a hand held or battery powered nut driver.

Considering the combined benefits of lower initial cost, lightweight build, versatility and reusability makes this series of Cabletec couplings an ideal solution for coupling applications.

The size range of the five couplings currently manufactured is shown in the table to the right.

PART NO.	General Specifications	
	NOMINAL SIZE	DUCT OD.
PE 1.050-2	3/4"	1.050
PE 1.315-2	1"	1.315
PE 1.660-2	1/4"	1.660
PE 1.900-2	1 1/2"	1.900
PE 2.375-2	2"	2.375

The latest from Cabletec®

Since 1983, Cabletec has been laying the ground work and innovating many products geared towards ease of use, quality, and unparalleled functionality. After many tests and long nights, it seemed obvious to move forward with a coupler that was both convenient and cost-efficient. We are proud to announce our clear ABS reverse thread coupling.

INNER DUCT

TAPERED BUTTRESS THREADS

All new!
Convenient!
Durable!
Resistant!
Reliable!

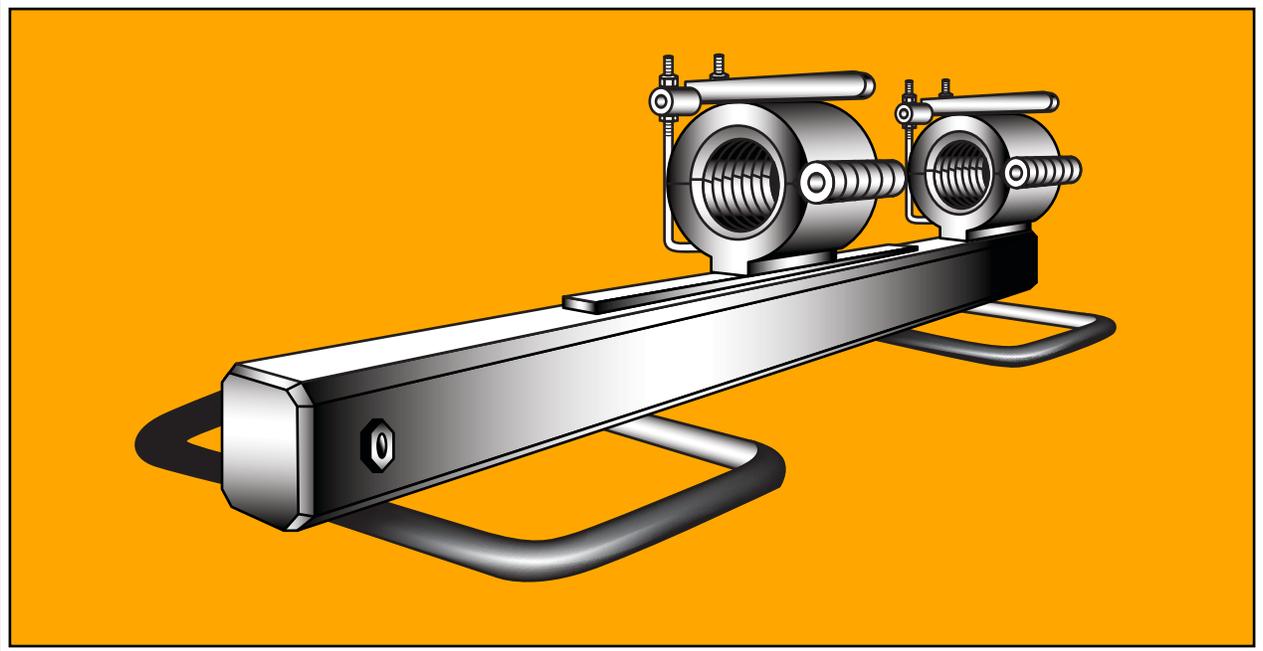
INNER DUCT



Cabletec® **CLEAR PLASTIC COUPLINGS:**

Cabletec is proud to introduce our newest product for connecting inner duct for the telecommunications and electrical industries. This outside plant coupling for SDR inner duct, has a single feature that proves its reliability and reduces pullout errors due to improper installation every time!

Modeled after our already successful aluminum reverse threaded coupler and made from clear ABS, our coupler can easily be installed with a wrench and can go anywhere in an underground install. No need to worry about over or under threading, when you can see how far you need to go and when to stop. This feature maximizes our 1000 LB pullout capability and can allow for at a glance inspection before burying. With a 200 PSI internal blow capability, these couplers are durable, oil and chemical resistant. Please be aware that due to its transparency, our newest coupler is not UV resistant and may not be used for above ground installations.



Cabletec® DK200H HYDRAULIC COUPLING PRESS:

Designed as a high production tool for installing aluminum barbed couplings, the Cabletec Hydraulic Coupling Press has evolved into an industry-leading standard for its functional simplicity and rugged dependability. Like other Cabletec equipment, it is a product informed by practical, common sense engineering and field-tested experience.

Machine installed couplings increase the overall integrity of every connection by ensuring consistent, full depth, accurately centered joints

inside every coupling. These compact, labor saving tools can easily pay for themselves over the course of installing 200 or 300 couplings

In operation, the ends of the inner duct are simply locked into the pair of hinged clamps and forced into the coupling under power of the small hydraulic pump. Compression springs inside the frame automatically return the movable clamp to its unloaded position after use. The frame of the tool is constructed of heavy gauge

2" tubing which protectively houses the hydraulic rams and other mechanical components. Clamp bodies are machined from 1018 steel billet and have removable inserts to accommodate inner duct of any size from 1" to 2". The wide base provides a stable platform during the operation as well as a convenient carrying handle.

Most components in the Cabletec DK200H Hydraulic Coupling Press can be ordered as repair items.

General Specifications

CABLETEC® DK200H HYDRAULIC COUPLING PRESS

Length:	24"	Pump and Ram Capacity:	5 tons
Height:	8"	Range of Duct Sizes:	1" to 2"
Width:	8"	Material & Finish:	Powder Coated Steel
Tool Weight:	30 lbs.	Pump Weight:	17 lbs.

For further information and literature on Cabletec Systems, write, call, FAX, or check out our website:



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Cabletec Manufacturing Inc. was established in 1983. Located in Carson City, Nevada since the late 1990's, and has been the premier supplier of couplings for HDPE (high density polyethylene) inner duct for over 25 years. We started with two manually operated lathes and over the last three decades have grown into a full fledged machine shop, providing customized machined products for our customers needs. Our commitment to open and honest communication has been a strong foundation in building relationships with our customers and has helped us adopt a philosophy of continuous improvement across every aspect of our company. With that improvement, we have opened our doors to custom machining of various products outside of our inner duct industry. Our experience with CNC machining high volume, precision-made products has given us an edge in meeting our customer's needs. We are able to keep our costs low since we are a proven company with no debt and 100% ownership of all of our assets. This enables us to pass savings on to our customers and provide value that our competitors cannot match. Our experienced team is capable of drawing, programming and machining a diverse range of materials with the equipment we have at Cabletec. We possess 2 CNC Vertical machine centers (one with a 4th axis) and 5 CNC turning centers. We have a variety of peripheral equipment necessary to produce a raw finished product and should you have any questions or want to know more about our products and services, please feel free to stop by or give us a call. We look forward to hearing from you and thank you for the opportunity to serve you.

THANK YOU

- The Cabletec Team

Since 1983

