

T-CONE® PLUGS



The T-Cone Plug is the industry leader in reusable duct plugs. Containing no metal parts, the T-Cone provides a reliable seal against infiltration of debris, water or sewer gases. In blowout tests, the T-Cone Plug has also been able to withstand 20 feet of head pressure.

The T-Cone's two-piece, threaded design, consisting of an expandable sealing gasket with a tapered polyolefin-mating plug, provides for easy installation and removal. The T-Cone Plug is available in sizes ranging from 1" to 8" in diameter. Special sizes and configurations, including square gaskets are also available. T-Cone Plugs are also available with rope tie loops for tying off pull strings or ropes.

ROUND T-CONE® PLUG FOR CONDUIT BARREL



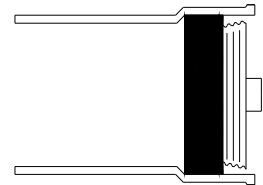
NOM Size	Conduit Type	Part No.	Conduit I.D. I.D.	Pieces Per Carton	Weight Per Carton
1	SCH 40	ST-102	1.050	50	3
	DB-120	ST-103	1.195	50	3
	SCH 40 SOCKET	ST-106	1.315	50	3
1-1/8	1-1/8" I.D. SOCKET	ST-104	1.125	50	3
1-1/4	1-1/4" I.D. DUCT	ST-105	1.250	50	3
	SCH 40	ST-125	1.380	50	3
	DB60 / EB20	DB-120	1.540	50	4
	1.49" SOCKET	ST-149	1.490	50	4
1-1/2	SCH 40	ST-152	1.610	50	4
	DB60 / EB20	EB-152	1.780	50	5
2	SCH 80	ST-201	1.939	50	6
	SCH 40	ST-202	2.067	50	6
	GTE (0.090" T)	ST-203	2.195	50	7
	DB60 / EB20	EB-220	2.255	50	8
2-1/2	2.469" ID DUCT	ST-250	2.469	50	9
3	CAST IRON BARREL	ST-301	2.960	50	12
	SCH 40	ST-302	3.066	50	12
	EB20	EB-320	3.378	50	17
	DB60	DB-360	3.316	50	16
3-1/2	IPS HUB	EB-350	4.000	50	18
	3.500" ID DUCT	ST-352	3.500	50	20
4	SDR-11	ST-358	3.580	50	–
	3.700" ID DUCT	ST-370	3.700	50	23
	SDR 13.5	ST-375	3.750	50	22
	3.810" ID DUCT	ST-381	3.810	50	25
	4.215" ID DUCT	ST-400	4.215	50	25
	SCH 80	ST-401	3.900	50	24
	SCH 40 & C DUCT	ST-402	4.026	50	22
	SDR 26	ST-403	4.125	50	23
	4" VCP BELL	ST-404	5.620	50	36
	3.856" ID DUCT	ST-415	3.856	50	–
	DB120	ST-419	4.190	50	–
	EB20/EMT	EB-420	4.336	50	28
	DB60 / GT80-DB	ST-425	4.258	50	27
	4.625" ID DUCT	ST-462	4.625	50	–
5	SDR 13.5 (SCH 80)	ST-475	4.750	50	38
	SCH 40	ST-502	5.047	50	33
	5.420" ID DUCT	ST-542	5.420	50	40
	EB20	EB-520	5.357	50	38
	DB60	DB-560	5.260	50	38
	SDR-13.5	ST-560	5.563	50	36

ROUND T-CONE® PLUG FOR CONDUIT BARREL



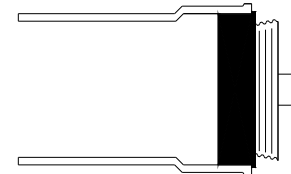
NOM Size	Conduit Type	Part No.	Conduit I.D. I.D.	Pieces Per Carton	Weight Per Carton
6	6.275" ID DUCT	ST-600	6.275	36	40
	HDPE SMOOTH-COR	ST-601	5.915	36	35
	SCH 40	ST-602	6.065	36	38
	"NO BELL" VCP SLV	ST-603	7.990	20	38
	SCH 80	ST-604	5.760	36	32
6.125" ID DUCT	6.125" ID DUCT	ST-612	6.125	36	-
	6.963" ID DUCT	ST-695	6.963	20	36
	EB20	EB-620	6.375	36	44
	DB60	DB-660	6.261	36	41
	7	7.060 ID DUCT"	ST-706	7.060	36
8	SCH 40	ST-802	8.000	20	45

ROUND T-CONE® PLUG WITHOUT FLANGE CONDUIT HUB



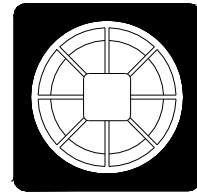
NOM Size	Conduit Type	Part No.	Conduit I.D. I.D.	Pieces Per Carton	Weight Per Carton
1-1/4	IPS HUB	ST-166	1.680	50	4
2	IPS HUB	ST-237	2.375	50	9
3	IPS HUB	ST-300	3.500	50	20
3-1/2	IPS HUB	ST-350	4.000	50	21
4	TEL DUCT HUB	ST-435	4.350	50	28
4	IPS HUB	ST-450	4.500	50	30
5	IPS HUB	ST-560	5.563	50	36
6	IPS HUB	ST-662	6.625	36	49

ROUND T-CONE® PLUG WITH FLANGE CONDUIT HUB



NOM Size	Conduit Type	Part No.	Conduit I.D. I.D.	Pieces Per Carton	Weight Per Carton
3	IPS HUB	SF-352	3.500	50	20
4	IPS HUB	SF-450	4.500	50	35
5	IPS HUB	SF-560	5.563	50	36
6	IPS HUB	SF-662	6.625	36	53

SQUARE T-CONE® PLUG WITHOUT FLANGE FOR SQUARE DUCT



NOM Size	Conduit Type	Part No.	Conduit I.D. I.D.	Pieces Per Carton	Weight Per Carton
2-1/2	SQUARE DUCT	SQ-250	2.500	50	11
3-1/4	SQUARE DUCT	SQ-325	3.250	50	21
3-1/2	SQUARE DUCT	SQ-350	3.500	50	25
4	SQUARE DUCT	SQ-400	3.700	50	31
4-1/4	SQUARE DUCT	SQ-425	4.250	50	35

FLUSH MOUNT T-CONE® PLUGS

NOM Size	Conduit Type	Part No.	Conduit I.D. I.D.	Pieces Per Carton	Weight Per Carton
3	C.I. BARREL-SW	CS-301C	2.960	50	14
	SCH 40 DWV	CS-302C	3.068	50	14
4	SCH 40 DWV	CO-402C	*4.026	50	25
6	C.I. BARREL-SW	CO-601C	*5.915	18	24
	C.I. BARREL-EH	CO-602C	*6.065	18	27

*Extended Flange

FLUSH MOUNT T-CONE® PLUGS WITH COVER & SCREWS

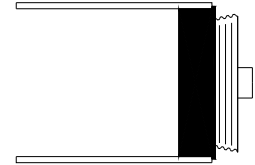
NOM Size	Conduit Type	Part No.	Conduit I.D. I.D.	Pieces Per Carton	Weight Per Carton
2	SCH 40 DWV	CS-202	2.068	50	6
	2.255" EB20	CS-220	2.255	50	8
3	3.378" EB20	CEB-320	3.378	50	17
	C.I. BARREL-SW	CS-301	2.960	50	11
4	SCH 40 DWV	CS-302	3.068	50	12
	3.500" HUB	CEB-350	3.500	50	18
		CS-352	3.500	50	20
	SDR35	CS-401	3.900	50	17
4	SCH 40 DWV	CS-402	4.026	50	22
	PVC DR-18	CS-425	4.258	50	27
	4.500" HUB	CS-450	4.500	50	31
	SCH 40 DWV	CO-402	*4.026	50	22
6	C.I. BARREL-SW	CO-601	*5.915	18	23
	C.I. BARREL-EH	CO-602	*6.065	18	23

*Extended Flange

T-CONE WRENCH

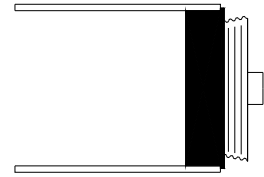
NOM Size	Conduit Type	Part No.	Conduit I.D. I.D.	Pieces Per Carton	Weight Per Carton
	1" THROUGH 6"	FM-106	—	—	
	8"	FM-108	—	—	

ROUND T-CONE® PLUG FOR CONDUIT BARREL WITH ROPE TIE



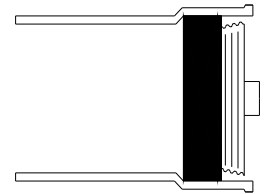
NOM Size	Conduit Type	Part No.	Conduit I.D.	Pieces Per Carton	Weight Per Carton
1	SCH 40	ST-102T	1.050	50	4
	DB-120	ST-103T	1.195	50	4
1-1/8	SCH 40 SOCKET	ST-106T	1.315	50	4
	1-1/8" I.D. SOCKET	ST-104T	1.125	50	4
1-1/4	1-1/4" I.D. DUCT	ST-105T	1.250	50	4
	SCH 40	ST-125T	1.380	50	4
	DB60 / EB20	DB-120T	1.540	50	5
1-1/2	1.49" SOCKET	ST-149T	1.490	50	4
	SCH 40	ST-152T	1.610	50	5
	DB60 / EB20	EB-152T	1.780	50	5
2	SCH 80	ST-201T	1.939	50	7
	SCH 40	ST-202T	2.067	50	7
	GTE (0.090" T)	ST-203T	2.195	50	8
2 1/2	DB60 / EB20	EB-220T	2.255	50	9
	2.469" ID DUCT	ST-250T	2.469	50	10
	CAST IRON BARREL	ST-301T	2.960	50	12
3	SCH 40	ST-302T	3.066	50	13
	EB20	EB-320T	3.378	50	18
	DB60	DB-360T	3.316	50	17
	IPS HUB	EB-350T	4.000	50	18
3-1/2	TEL DUCT	ST-352T	3.500	50	21
	SDR-11	ST-358T	3.580	50	-
	3.700" ID DUCT	ST-370T	3.700	50	24
	SDR 13.5	ST-375T	3.750	50	23
	3.810" ID DUCT	ST-381T	3.810	50	25
	4.215" ID DUCT	ST-400T	4.215	50	25
	SCH 80	ST-401T	3.900	50	25
	SCH 40 & C DUCT	ST-402T	4.026	50	23
	SDR 26	ST-403T	4.125	50	24
	4" VCP BELL	ST-404T	5.620	50	36
	3.856" ID DUCT	ST-415T	3.856	50	-
	DB120	ST-419T	4.190	50	-
	EB20/EMT	EB-420T	4.336	50	29
DB60 / GT80-DB	ST-425T	4.258	50	28	
4	4.625" ID DUCT	ST-462T	4.625	50	-
	SDR 13.5 (SCH 80)	ST-475T	4.750	50	39
	SCH 40	ST-502T	5.047	50	33
	5.420" ID DUCT	ST-542T	5.420	50	41
	EB20	EB-520T	5.357	50	39
	DB60	DB-560T	5.260	50	38
5	SDR-13.5	ST-560T	5.563	50	36

ROUND T-CONE® PLUG FOR CONDUIT BARREL WITH ROPE TIE



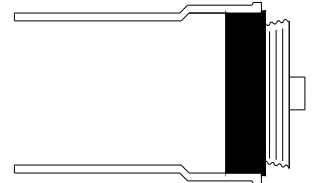
NOM Size	Conduit Type	Part No.	Conduit I.D.	Pieces Per Carton	Weight Per Carton
6	6.275"ID DUCT	ST-600T	6.275	36	40
	HDPE SMOOTH-COR	ST-601T	5.915	36	36
	SCH 40	ST-602T	6.065	36	38
	"NO BELL" VCP SLV	ST-603T	7.990	20	38
	SCH 80	ST-604T	5.760	36	33
	6.125" ID DUCT	ST-612T	6.125	36	–
	6.963" ID DUCT	ST-695T	6.963	20	37
	EB20	EB-620T	6.375	36	44
	DB60	DB-660T	6.261	36	41
7	7.060 ID DUCT"	ST-706T	7.060	36	67
8	SCH 40	ST-802T	8.000	20	46

ROUND T-CONE® PLUG WITHOUT FLANGE FOR CONDUIT HUB WITH ROPE TIE



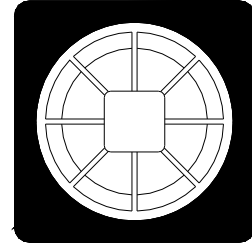
NOM Size	Conduit Type	Part No.	Conduit I.D.	Pieces Per Carton	Weight Per Carton
1-1/4	IPS HUB	ST-166T	1.680	50	5
2	IPS HUB	ST-237T	2.375	50	10
3	IPS HUB	ST-300T	3.500	50	20
3-1/2	IPS HUB	ST-350T	4.000	50	22
4	TEL DUCT HUB	ST-435T	4.350	50	29
4	IPS HUB	ST-450T	4.500	50	32
5	IPS HUB	ST-560T	5.563	50	37
6	IPS HUB	ST-662T	6.625	36	54

ROUND T-CONE® PLUG WITH FLANGE FOR CONDUIT HUB WITH ROPE TIE



NOM Size	Conduit Type	Part No.	Conduit I.D.	Pieces Per Carton	Weight Per Carton
3	IPS HUB	SF-352T	3.500	50	21
4	IPS HUB	SF-450T	4.500	50	34
5	IPS HUB	SF-560T	5.563	50	38
6	IPS HUB	SF-662T	6.625	36	50

SQUARE T-CONE® PLUG WITHOUT FLANGE FOR SQUARE DUCT WITH ROPE TIE



NOM Size	Conduit Type	Part No.	Conduit I.D.	Pieces Per Carton	Weight Per Carton
2-1/2	SQUARE DUCT	SQ-250T	2.500	50	11
3-1/4	SQUARE DUCT	SQ-325T	3.250	50	25
3-1/2	SQUARE DUCT	SQ-350T	3.500	50	25
4	SQUARE DUCT	SQ-400T	3.700	50	32
4-1/4	SQUARE DUCT	SQ-425T	4.250	50	37

T-CONE® WRENCH

NOM Size	Conduit Type	Part No.	Conduit I.D.	Pieces Per Carton	Weight Per Carton
	1" THROUGH 6"	FM-106	—	—	—
	8"	FM-108	—	—	—



SPECIALTY PRODUCTS, INC.

P.O. BOX 346 • GIRARD, KS 66743 • TEL: 800-356-4540 FAX: (620) 724-8099
www.etcospecialtyproducts.com Email: etco@ckt.net

INSTALLATION INSTRUCTIONS FOR THE T-CONE® EXPANDABLE DUCT PLUG

Check the inside surface of the pipe or throat of fitting in area that stopper will be placed. Make sure it is free of grease, dirt, pipe lube or any other foreign material. On plastic pipe, solvent cleaner may be used to clean the inside surface.

Insert the stopper all the way into the opening and tighten. If stopper turns without tightening, remove and tighten by hand until it fits snugly into the opening.

If necessary, after several uses, lubricate only the threads on the plug. Silicone lube, flax soap, petroleum jelly, or Teflon tape may be used. DO NOT USE MOTOR OIL OR THREAD LUBRICANTS COMMONLY USED FOR METAL PIPE.

Do not over tighten. On the smaller sizes (1" thru 3"), tighten until "hand tight" then use adjustable wrench and tighten one-half turn. On the 4" and larger sizes, it only requires about one-half to three-quarters of a turn after "hand tight".



TECHNICAL DATA
ELASTOMERIC SEALING RING
T-CONE® PLUGS 1" – 3" SIZES

MATERIAL: GEON VINYL MOLDING COMPOUND #83741-288 OR EQUAL
MOLDING TEMPERATURE: 335 - 350° F.

Specific Gravity ($\pm .02$)	ASTM-D-792	1.36
Hardness (Durometer A ± 3) Instantaneous	ASTM-D-676	72
15 Sec. Delay		68

Physical Properties

Ultimate Tensile Strength (psi)	ASTM-D-412	1600
Ultimate Elongation (%)	ASTM-D-412	350
100% Modulus (psi)	ASTM-D-412	675
Brittle Temperature (°F.)	ASTM-D-746	-35
Emery Volatility (%)	ASTM-D-1203	-0.39
Graves Tear (lb./in.)	ASTM-D-1004	180
Cold Bend - 180° Bend around ¼" Mandrel (°F.) Sample conditioned 1 hour		-70
Dielectric Strength (volts/mi 1)	ASTM-D-149	700
Clash Berg Stiffness	ASTM-D-1043	
Modulus of Rigidity @ -35°C. (psi)		4700
Tf (°C.)		-40
Water Absorption & Extraction ASTM-D-570		
% Weight Change		0.28

Air Oven Aging

7 Days @ 100°C. – ASTM-D-573

Tensile (psi)	2000
Elongation (%)	280
100% Modulus (psi)	1950
% Weight Change	-13.4

Accelerated Weathering Data

Atlas Weatherometer – ASTM-E-42-57 Type E Equipment

	<u>1000 Hours</u>	<u>2000 Hours</u>
Tensile (psi)	1000	800
Elongation (%)	250	280
100% Modulus	700	750
Hardness (Durometer A ± 3)	75	80

Miscellaneous

Color: Black



TECHNICAL DATA

ELASTOMERIC SEALING RING ETCO T-CONE® STOPPERS AND DUCT PLUGS 4" THROUGH 8" SIZES

ETCO PIPE AND MANHOLE ADAPTERS 4" THROUGH 12" SIZES

MATERIAL: ETCO 8706 POLYURETHANE (UNSATURATED CASTING RESIN).
MEETS AND EXCEEDS ALL MATERIAL REQUIREMENTS OF ASTM C-425.

COLOR		BLACK
SPECIFIC GRAVITY (\pm .02)	ASTM-D-792	1.24
HARDNESS (DUROMETER A \pm 1)	ASTM-D-676	68
TEAR (DIE C)	ASTM-D-624 (MIN.)	188
TENSILE (psi)	ASTM-D-412	800
COMPRESSION MODULUS @ 10%	ASTM-D-575	212-220 psi
ELONGATION	ASTM-D-412	160%

FAST-LOC PLUGS



The ETCO Fast-Loc Plug is a mechanical expansion plug designed to seal the ID of conduit and pipe. The solid elastomeric gasket, produced using ETCO's specially formulated polyurethane, provides a pressure-tight and reusable seal for smooth, ribbed, or corrugated duct.

The Fast-Loc plug includes a ½" rope tie to secure pull ropes or unused cables. The Fast-Loc is available in two styles with either a wing nut or loop nut for tightening.

The Fast-Loc contains no metal parts. Sizes available range from ¾" through 2". The wing nut plug can be purchased in style "A" or "B". On Style "A", the washer is flush with the gasket so the plug stops at the wing nut as it is tightened into the conduit. On Style "B", the washer is larger than the gasket so the washer stops at the end of the conduit. The loop nut plug comes only in style "B".



**FAST-LOC PLUG
WING NUT DUCT PLUGS**
FOR SMOOTH OR RIBBED INNERDUCT

*NOMINAL SIZE	PART NO.	DUCT Min (I.D.)	STYLE
3/4" IPS SCH 80	RP-0750	0.735	B
3/4" IPS SCH 40	RP-0820	0.810	B
3/4" SDR 11	RP-0840	0.850	A&B
3/4" SDR 13.5	RP-0890	0.862	A&B
1" SDR 9	RP-1000	0.995	A&B
1" IPS SCH 40	RP-1050	1.050	A&B
1" SDR 13.5	RP-1075	1.075	A&B
1" SDR 15.5	RP-1125	1.125	A&B
1-1/8" SDR 13.5	RP-1160	1.174	A&B
1-1/8" SDR 15.5	RP-1200	1.210	A&B
1-1/4" IPS SCH 80	RP-1250	1.245	A&B
1-1/4" SDR 9	RP-1290	1.290	A&B
1-1/4" SDR 11	RP-1330	1.330	A&B
1-1/4" IPS SCH 40	RP-1375	1.364	A&B
1-1/4" SDR 13.5	RP-1400	1.380	A&B
1-1/4" SDR 15.5	RP-1420	1.430	B
1-1/2" SDR 9	RP-1460	1.450	B
1-1/2" IPS SCH 80	RP-1510	1.500	B
1-1/2" SDR 11	RP-1530	1.520	B
1-1/2" SDR 13.5	RP-1580	1.580	B
1-1/2" IPS SCH 40	RP-1610	1.614	B
2" SDR 13.5	RP-1820	1.800	B
2" IPS SCH 80	RP-1930	1.930	B
2" SDR 13.5	RP-2023	2.010	B
2" IPS SCH 40	RP-2050	2.045	B

***NOMINAL SIZE FOR REFERENCE ONLY. DUCT MANUFACTURER'S TOLERANCES MAY VARY. VERIFY DUCT I.D. TO SELECT PROPER PLUG REQUIRED.**



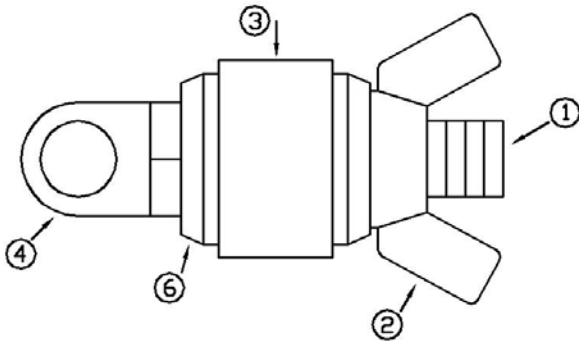
**FAST-LOC PLUG
LOOP NUT DUCT PLUGS**
FOR SMOOTH OR RIBBED INNERDUCT

*NOMINAL SIZE	PART NO.	DUCT I.D.	STYLE
3/4" IPS SCH 80	RPL-0750	0.735	B
3/4" IPS SCH 40	RPL-0820	0.810	B
3/4" SDR 11	RPL-0840	0.850	B
3/4" SDR 13.5	RPL-0890	0.862	B
1" SDR 9	RPL-1000	0.995	B
1" IPS SCH 40	RPL-1050	1.050	B
1" SDR 13.5	RPL-1075	1.075	B
1" SDR 15.5	RPL-1125	1.125	B
1-1/8" SDR 13.5	RPL-1160	1.174	B
1-1/8" SDR 15.5	RPL-1200	1.210	B
1-1/4" IPS SCH 80	RPL-1250	1.245	B
1-1/4" SDR 9	RPL-1290	1.290	B
1-1/4" SDR 11	RPL-1330	1.330	B
1-1/4" IPS SCH 40	RPL-1375	1.364	B
1-1/4" SDR 13.5	RPL-1400	1.380	B
1-1/4" SDR 15.5	RPL-1420	1.430	B
1-1/2" SDR 9	RPL-1460	1.450	B
1-1/2" IPS SCH 80	RPL-1510	1.500	B
1-1/2" SDR 11	RPL-1530	1.520	B
1-1/2" SDR 13.5	RPL-1580	1.580	B
1-1/2" IPS SCH 40	RPL-1610	1.614	B
2" SDR 13.5	RPL-1820	1.800	B
2" IPS SCH 80	RPL-1930	1.930	B
2" SDR 13.5	RPL-2023	2.010	B
2" IPS SCH 40	RPL-2050	2.045	B

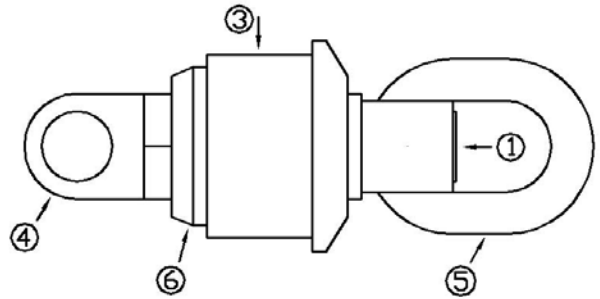
***NOMINAL SIZE FOR REFERENCE ONLY. DUCT MANUFACTURER'S TOLERANCES MAY VARY. VERIFY DUCT I.D. TO SELECT PROPER PLUG REQUIRED.**

FAST-LOC PLUGS

SMOOTH OR RIBBED INNERDUCT



WING NUT PLUG
STYLE "A" OR "B"



LOOP NUT PLUG
STYLE "B" ONLY

PRESSURE TIGHT AND REUSABLE

① ② ⑥ TYPE 6/6 NYLON (STUD, WASHERS, & WING NUTS). NYLON 6/6 MEETS MIL-M20693B "A" TYPE 1 LP41 OB AND ASTM D789-66 TYPE 1. DUPONT ZYTEL 101L NC010 OR EQUAL.

③ POLYURETHANE ELASTOMER SEALING GASKET MATERIAL: ETCO 9408 GREY OR BLACK

Specifications:

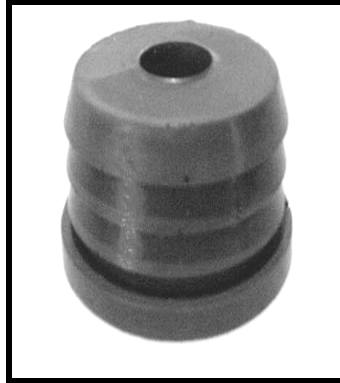
Color.....Grey or Black
Hardness.....50-55 Shore A
Tensile.....405-415 psi
Tear.....85-100 pli
Ultimate Elongation.....450-500%
Specific Gravity.....1.27

④ FULL ½ INCH ROPE TIE

⑤ PVC LOOP NUT – PVC INJECTION MOLDING GRADE (CELL CLASS LISTING 1245B) GEORGIA GULF 7063 OR EQUAL

WING NUT PLUGS
PART NUMBERS RP-0750 TO RP-2050
LOOP NUT PLUGS
PART NUMBERS RPL-0750 TO RPL-2050

PUSH PLUGS



Pipe Size	Part No. Std. Plug	Part No. Split Plug	Duct I.D. Size
3/4" SCH 40	CL-082-*	CL-082S-*	0.824
3/4" SDR 13.5	CL-087-*	CL-087S-*	0.854
1" SDR 11	CL-107-*	CL-107S-*	1.070
1" SDR 13.5	CL-111-*	CL-111S-*	1.110
1-1/4" SDR 9	CL-127-*	CL-127S-*	1.270
1-1/4" SDR 11	CL-134-*	CL-134S-*	1.340
1-1/4" SDR 13.5	CL-141-*	CL-141S-*	1.410
1-1/2" SDR 11	CL-155-*	CL-155S-*	1.550
1-1/2" SDR 13.5	CL-159-*	CL-159S-*	1.588
2" W/.250" WALL	CL-187-*	CL-187S-*	1.870
2" SDR 11	CL-194-*	CL-194S-*	1.948
2" SCH 40 & SDR 13.5	CL-207-*	CL-207S-*	2.070
2 1/2" SCH 40	CL-247-*	CL-247S-*	2.469
3" SDR 13.5 & SCH 40	CL-307-*	CL-307S-*	3.070
4" SDR 11	CL-358-*	CL-358S-*	3.580

*Cable size needs to be added to the end of the part number.

For example a cable size of .500" would be added as follows:

CL-134-500 for the Std. Plug

And

CL-134S-500 for the Split Plug

MATERIAL

ETCO Specialty Products 9408 Material with a 55-59 Shore A Hardness



PUSH PLUG DATA & INSTALLATION SHEET

Product Description

Push Plugs are used to seal vacant or occupied ducts. They are made of ETCO Specialty Products 9408 Material with a 55-59 Shore A Hardness.

They are available in 1" thru 4" sizes (solid, split and with pre-sized cable openings) and should be custom ordered to assure exact OD & ID configurations for the customer's application.

They contain no metal parts.

Product Applications

ETCO's Push Plug applications are for long-term and temporary duct sealing. They are removable to allow future duct access.

When installed properly, ETCO's Push Plugs afford sediment infiltration protection, rodent control, and are gas and watertight under normal environmental conditions.

Installation Instructions

Verify that you are using the correct size Push Plug for duct and cable to be sealed properly (ID for duct & OD for cable).

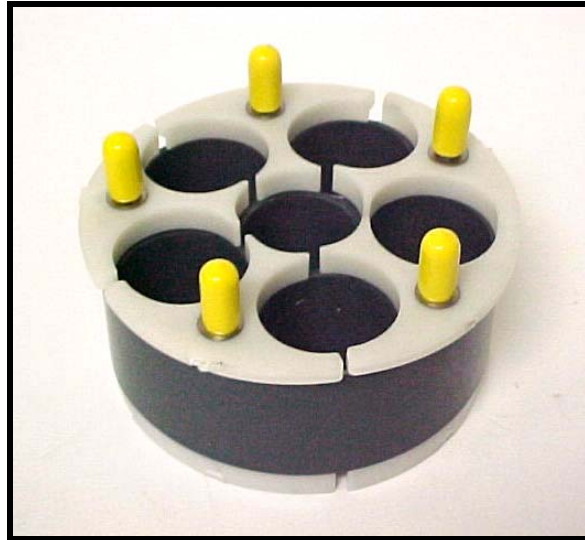
Duct and cable must be clean and free of soils, foreign material, cable placing agents, etc.

When sealing a duct with a cable, check cable for gouges or imbedded scratches within the surface area that will be sealed. If surface scratches or gouges exist, they must be removed (use a carding brush or shave hook, etc.) to eliminate a possible channel for gas or water to seep through the plugging surface.

Ducts must be clean, free of burrs and prepared as rounded as possible to maintain the stated duct ID, and to allow for 360 degree seating of the Push Plug outer flange.

Insert plug around cable or cables and evenly push into duct. Inspect to make sure the outer flange is firmly seated (360 degrees) against the duct circumference.

MULTIPLEX DUCT-LOC PLUGS



ETCO's Multiplex Duct-Loc Plug is a split, compression plug designed to organize and seal around existing cable or innerduct inside a round opening. An elastomeric gasket is compressed between squeeze plates made from high impact plastic or stainless steel plates using stainless steel hardware. The Multiplex Duct-Loc design enables quick installation and easy retrofitting in vaults, manholes and cabinets.

PART NUMBER	DESCRIPTION
SZ-395-3166	Multiplex, 4" 3 way 1.660"
SZ-395-4131	Multiplex, 4" 4 way 1.315"
SZ-497-4166	Multiplex, 5" 4 way 1.660"
SZ-595-5190-1166	Multiplex, 6" 5 way 1.900" & 1 way 1.660"

This is only a partial listing of combinations available. Special configurations and sizes are available upon request. We can produce plugs to match the exact combination of cables, conduits, and openings required by your job.

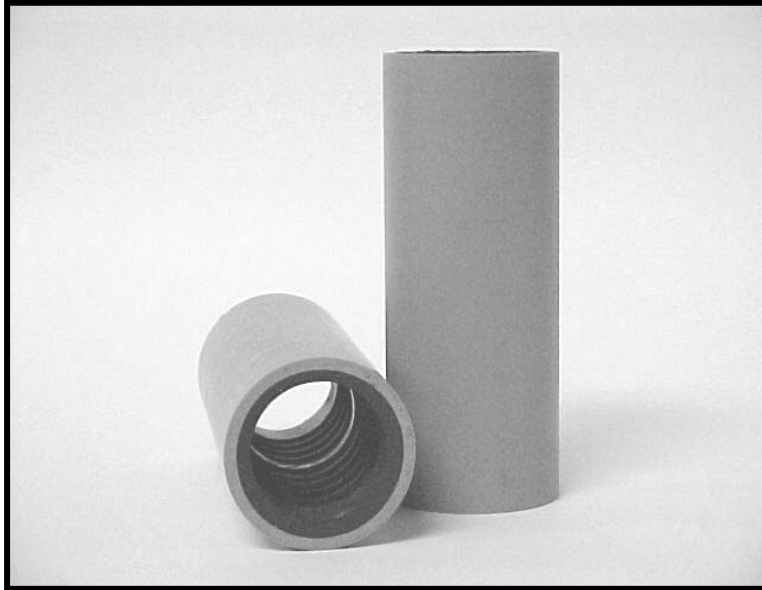
MULTI-CAP®



Simple installation is the key to these adaptable push-on style caps. The Multi-Cap organizes the cable in the duct and provides a positive seal between the conduit and the cable. The step design allows for easy, identifiable cut locations for various size cables – .325" through 1" diameter. The flexible PVC material provides a weather-tight seal with good chemical resistance and weatherproof properties. The Multi-Cap is currently available in the following sizes:

Part No.	Duct Size	Number of Fingers	Detail of Finger Diameter (I.D.) per Step
CA-075	3/4" - 1.05" OD	1	.500"
CA-100	1" - 1.315" OD	1	.500"
CA-125	1 1/4" - 1.660" OD	1 - stepped	.750" - .500"
CA-150	1 1/2" - 1.900" OD	1 - stepped	1.000" - .500"
CA-200	2" - 2.375" OD	1 - stepped	1.000" - .500"
CA-200-3	2" - 2.375" OD	3	(2) @ .525" - (1) @ .475"
CA-237	2" - 2.375" OD	flat cap	N/A - FLAT
CA-287	2 1/2" - 2.875" OD	1 - stepped	1.300" - 1.050" - .750" - .450"
CA-287-3	2 1/2" - 2.875" OD	3 - stepped	(2) @ .800" - .600" - .350" (1) @ .625" - .475" - .325"
CA-350	3" - 3.500" OD	1 - stepped	1.300" - 1.050" - .750" - .450"
CA-350-3	3" - 3.500" OD	3 - stepped	(2) @ .800" - .600" - .350" (1) @ .625" - .475" - .325"

E-LOC® COUPLING



The E-Loc Coupling is a compression coupling that provides a watertight/airtight connection in buried or restrained applications. The ability to join dissimilar materials, such as, PVC, HDPE, fiberglass, or metal makes the E-Loc a versatile coupling for the telephone, electrical, and cable industries. Patented.

E-Loc Couplings are available to fit conduit sizes from ½” through 8”, including several special diameters. Watertight to 200 psi restrained on smooth wall, ribbed, and corrugated duct. Custom lengths and transitions for different diameters are also available.



SPECIALTY PRODUCTS, INC.

P.O. BOX 346 • GIRARD, KS 66743 • TEL: 800-356-4540 FAX: (620) 724-8099
www.etcospecialtyproducts.com Email: etco@ckt.net

E-LOC® COUPLING

Nom Size	Part No.	Standard Duct Size	Coupling Body O.D. (IN.)	Length (IN.)	Pcs. Per Ctn.	Wt. Ctn.	
1/2"	EL-084	0.840" 1/2" IPS & SCH 40	1.400	6	50	20	
	EL-086	0.860" 1/2" DROP	1.400	6	50	20	
	EL-086R	0.860" 1/2" DROP 50A	1.400	6	50	20	
5/8"	EL-062	0.625" 13MM	1.315	6	50	16	
3/4"	EL-105	1.050" 3/4" IPS	1.660	6	50	19	
	EL-105R	1.050" 3/4" IPS 50A	1.660	6	50	19	
1"	EL-123	1.231" OD DUCT	2.375	6	50	48	
	EL-128C	1.280" CORR	2.375	6	50		
	EL-131	1.315" 1" IPS & SCH 40	2.375	6	50	46	
	EL-131R	1.315" RIB	2.375	6	50	46	
	EL-135	1.350" OD DUCT	2.375	6	50	45	
	EL-137	1.375" OD DUCT	2.375	6	50		
	EL-140C	1.400" CORR (1")	2.375	6	50	42	
	1-1/8"	EL-142	1.420" OD DUCT	2.375	6	50	44
		EL-142R	1.420" OD DUCT RIB	2.375	6	50	44
	1-1/4"	EL-150	1.500" OD DUCT	2.375	6	50	
EL-150R		1.500" OD 1-1/4" RIB	2.375	6	50		
EL-154		1.540" OD DUCT	2.375	6	50	38	
EL-154R		1.540" PNA CORR	2.375	6	50	38	
EL-157		1.575" OD DUCT	2.375	6	50	39	
EL-157C		1.570" CORR 1-1/4	2.375	6	50	39	
EL-157R		1.575" OD DUCT RIB	2.375	6	50	39	
EL-160		1.600" OD DUCT	2.375	6	50	36	
EL-166		1.660" 1-1/4" IPS	2.375	6	50	34	
EL-166R		1.660" 1-1/4" RIB	2.375	6	50	34	
1-1/2"	EL-175	1.750" OD DUCT	2.375	6	50	30	
	EL-178	1.780" OD DUCT	2.875	6	50		
	EL-178R	1.780" OD DUCT RIB	2.875	6	50		
	EL-183	1.830" OD DUCT	2.875	6	50	42	
	EL-183R	1.830" OD DUCT RIB	2.875	6	50	42	
2"	EL-190	1.900" 1-1/2" IPS	2.875	6	25	28	
	EL-190-12	1.900" 1-1/2" IPS X 12" LG	2.875	12	24	55	
	EL-2197	2.197" OD DUCT (2"EMT)	3.500	6	25		
	EL-232C	2.325" CORR (2" PNA)	3.500	6	25	42	
	EL-235	2.350" OD DUCT	3.500	6	25		

Standard coupling length is 6" unless noted otherwise. METRIC sizes are also available.



E-LOC® COUPLING

	EL-237-12	2.375" 2" IPS X 12" LG	3.500	12	15	49
	EL-237R	2.375" 2" IPS RIBBED	3.500	6	25	40
	EL-243	2.430" 2" SIDR 11	3.500	6	25	40
2-1/2"	EL-287	2.875" 2-1/2" IPS	4.000	6	25	47
3"	EL-350	3.500" 3" IPS	4.500	6	25	52
	EL-350-8	3.500" 3" IPS X 8" LG	4.500	8	12	33
	EL-350-12	3.500" 3" IPS X 12" LG	4.500	12	10	40
	ELR-350	3.500" REPAIR SLEEVE	4.500	6	25	34
4"	EL-400	4.500" 4" IPS	5.563	6	12	
	EL-400-8	4.500" 4" IPS X 8" LG	5.563	8	10	34
	EL-400-12	4.500" 4" IPS X 12" LG	5.563	12	10	52
	EL-400-14	4.500" 4" IPS X 14" LG	5.563	14	10	50
	ELR-400	4.500" REPAIR SLEEVE	5.563	6	12	
	ELR-400-8	4.500" REPAIR SLEEVE X 8" LG	5.563	8	10	37
	EL-435	4.350" 4" C DUCT	5.563	6	12	
	EL-471	4.710" OD DUCT	5.563	6	12	
	EL-471-12	4.710" OD DUCT X 12" LG	5.563	12	10	54
	EL-476	4.760" OD DUCT	5.563	6	12	59
	EL-476-8	4.760" OD DUCT X 8" LG	5.563	8	10	29
	EL-476-14	4.760" OD DUCT X 14" LG	5.563	14	10	50
5"	EL-500	5.563" 5" IPS	6.625	6	16	49
	EL-500-8	5.563" 5" IPS X 8" LG	6.625	8	10	41
	EL-500-12	5.563" 5" IPS X 12" LG	6.625	12	5	34
6"	EL-600	6.625" 6" IPS	7.700	6	12	43
	EL-600-8	6.625" 6" IPS X 8" LG	7.700	8	6	30
	EL-600-12	6.625" 6" IPS X 12" LG	7.700	12	6	40
	ELR-600	6.625" REPAIR SLEEVE	7.700	6	12	40
	ELR-600-8	6.625" REPAIR SLEEVE X 8" LG	7.700	8	6	28
8"	EL-800	8.625" 8" IPS	9.775	6	4	19

Standard coupling length is 6" unless noted otherwise. METRIC sizes are also available.

E-LOC® TRANSITION COUPLING



The E-Loc Transition Coupling is a compression coupling used to provide a watertight / airtight connection for different diameter duct in buried or restrained applications. The E-Loc Transition Coupling has all the great features as the standard E-Loc Coupling including the ability to join dissimilar materials such as PVC, HDPE, fiberglass or metal.

The E-Loc Transition Coupling is watertight to 200 psi when restrained on smooth wall, ribbed and corrugated duct. Custom lengths and transitions are also available.

E-LOC® TRANSITION COUPLING

Part No.	Description
ELA-086084	CPLG, E-LOC TRANS .0860" X 0.840"
ELA-135131	CPLG, E-LOC TRANS 1.350" X 1.315"
ELA-150131	CPLG, E-LOC TRANS 1.500" X 1.315"
ELA-154131	CPLG, E-LOC TRANS 1.540" X 1.315"
ELA-154131R	CPLG, E-LOC TRANS 1.540" X 1.315" RIB
ELA-154142	CPLG, E-LOC TRANS 1.540" X 1.425"
ELA-157123	CPLG, E-LOC TRANS 1.570" X 1.230"
ELA-160150	CPLG, E-LOC TRANS 1.600" X 1.500"
ELA-166105	CPLG, E-LOC TRANS 1.660" X 1.050"
ELA-166131	CPLG, E-LOC TRANS 1.660" X 1.315"
ELA-166137	CPLG, E-LOC TRANS 1.660" X 1.375"
ELA-166140	CPLG, E-LOC TRANS 1.660" X 1.400"
ELA-166150	CPLG, E-LOC TRANS 1.660" X 1.500"
ELA-166154	CPLG, E-LOC TRANS 1.660" X 1.540"
ELA-166158	CPLG, E-LOC TRANS 1.660" X 1.580"
ELA-166160	CPLG, E-LOC TRANS 1.660" X 1.600"
ELA-177154	CPLG, E-LOC TRANS 1.770" X 1.540"
ELA-190131	CPLG, E-LOC TRANS 1.900" X 1.315"
ELA-190154R	CPLG, E-LOC TRANS 1.900" X 1.540" RIB
ELA-190157	CPLG, E-LOC TRANS 1.900" X 1.575"
ELA-190157R	CPLG, E-LOC TRANS 1.900" X 1.575" RIB
ELA-190160	CPLG, E-LOC TRANS 1.900" X 1.600"
ELA-190160R	CPLG, E-LOC TRANS 1.900" X 1.600" RIB
ELA-190166	CPLG, E-LOC TRANS 1.900" X 1.660"
ELA-190175	CPLG, E-LOC TRANS 1.900" X 1.750"
ELA-235183	CPLG, E-LOC TRANS 2.350" X 1.830"
ELA-237131	CPLG, E-LOC TRANS 2.375" X 1.315"
ELA-237154	CPLG, E-LOC TRANS 2.375" X 1.540"
ELA-237166	CPLG, E-LOC TRANS 2.375" X 1.660"
ELA-237190	CPLG, E-LOC TRANS 2.375" X 1.900"
ELA-237220	CPLG, E-LOC TRANS 2.375" X 2.197"
ELA-287237	CPLG, E-LOC TRANS 2.875" X 2.375"

E-LOC® TRANSITION COUPLING

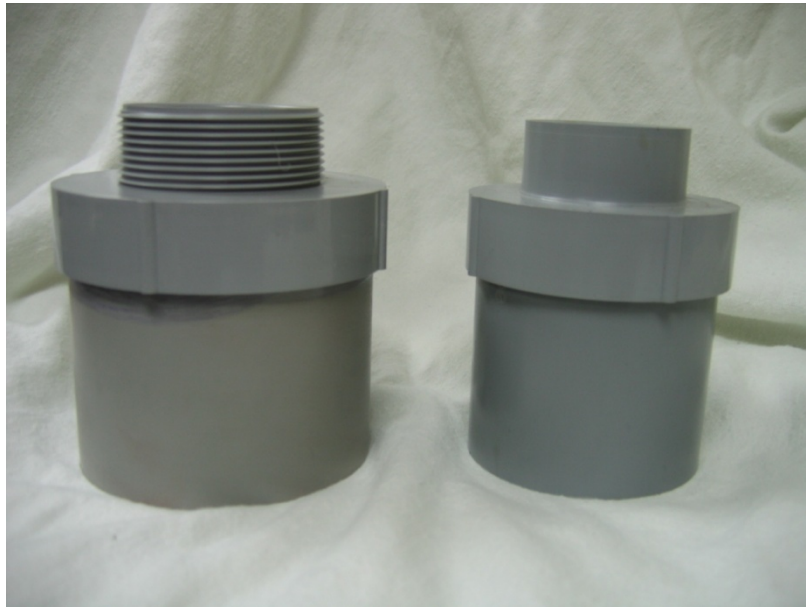
Part No.	Description
ELA-350190	CPLG, E-LOC TRANS 3.500" X 1.900"
ELA-350237	CPLG, E-LOC TRANS 3.500" X 2.375"
ELA-350287	CPLG, E-LOC TRANS 3.500" X 2.875"
ELA-435350	CPLG, E-LOC TRANS 4.350" X 3.500"
ELA-450237	CPLG, E-LOC TRANS 4.500" X 2.375"
ELA-450287	CPLG, E-LOC TRANS 4.500" X 2.875"
ELA-450350	CPLG, E-LOC TRANS 4.500" X 3.500"
ELA-450400	CPLG, E-LOC TRANS 4.500" X 4.000"
ELA-450421	CPLG, E-LOC TRANS 4.500" X 4.215"
ELA-450435	CPLG, E-LOC TRANS 4.500" X 4.350"
ELA-450435-12	CPLG, E-LOC TRANS 4.500" X 4.350" X 12" LG
ELA-450435-18	CPLG, E-LOC TRANS 4.500" X 4.350" X 18" LG
ELA-471435	CPLG, E-LOC TRANS 4.710" X 4.350"
ELA-471450	CPLG, E-LOC TRANS 4.710" X 4.500"
ELA-476400	CPLG, E-LOC TRANS 4.760" X 4.000"
ELA-476435	CPLG, E-LOC TRANS 4.760" X 4.350"
ELA-476435-8	CPLG, E-LOC TRANS 4.760" X 4.350" X 8" LG
ELA-476450	CPLG, E-LOC TRANS 4.760" X 4.500"
ELA-476450-8	CPLG, E-LOC TRANS 4.760" X 4.500" X 8" LG
ELA-476450-14	CPLG, E-LOC TRANS 4.760" X 4.500" X 14" LG
ELA-492450	CPLG, E-LOC TRANS 4.920" X 4.500"
ELA-556350	CPLG, E-LOC TRANS 5.563" X 3.500"
ELA-556435	CPLG, E-LOC TRANS 5.563" X 4.350"
ELA-556450	CPLG, E-LOC TRANS 5.563" X 4.500"
ELA-556450-12	CPLG, E-LOC TRANS 4.920" X 4.500" X 12" LG
ELA-662450	CPLG, E-LOC TRANS 6.625" X 4.500"
ELA-662556	CPLG, E-LOC TRANS 6.625" X 5.563"
ELA-662556-12	CPLG, E-LOC TRANS 6.625" X 5.563" X 12" LG
ELA-690662-12	CPLG, E-LOC TRANS 6.900" X 6.625" X 12" LG
ELA-700662	CPLG, E-LOC TRANS 7.000" X 6.625"
ELA-702662	CPLG, E-LOC TRANS 7.017" X 6.625"

E-LOC® TRANSITION FITTINGS

Polyethylene to Rigid PVC

E-loc to Male Pipe Thread

E-Loc to Solvent Weld



MALE PIPE THREAD

ELA-166-1.25 MPT

ELA-190-1.50 MPT

ELA-237-2.00 MPT

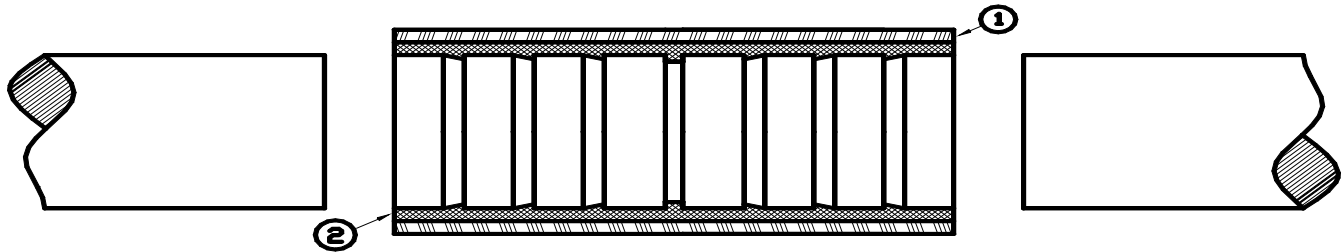
MALE SOLVENT WELD

ELA-166-1.25MSW

ELA-190-1.50 MSW

ELA-237-2.00 MSW

UTILITY CONDUIT JOINTING SYSTEM E-LOC® COUPLINGS*



(Cross Section)

Material Specifications:

1. PVC sleeve stock conforms to NEMA TC2, TC6 & TC8 and ASTM F-512. The sleeve stock is rated for 90° C.
2. Polyurethane elastomer is ETCO 8706 thermosetting elastomer manufactured for sealing rings and gasket material.

Specifications:

Color.....	Black
Hardness (ASTM-D-676).....	68 Shore A
Tensile (ASTM-D-412).....	800 psi
Tear (ASTM-D-624 Die "C").....	188 pli
Elongation (ASTM-D-412).....	160%
Specific Gravity (ASTM-D-792).....	1.24
Compression Modulus – 10% (ASTM-D-575).....	212-220 psi

*U. S. Patent No. 5,180,197

INSTALLATION INSTRUCTIONS FOR E-LOC® COUPLINGS / E-LOC® TRANSITION COUPLINGS

1. Check and make sure size of coupling is same as conduit being installed. E-Loc Couplings / Transition Couplings are based on standard O.D. sizes.
2. Wipe ends of conduit clean. Make sure it is clean of burrs, dirt, or foreign material.
3. To insure the coupling is fully inserted, place a reference point mark on both ends of the conduit a distance from the end equal to $\frac{1}{2}$ the overall length of the coupling. For example, if using a 6" long coupling, place a mark 3" from each end of the conduit; on 8" long couplings, place a mark 4" from each end and so forth depending upon length of the coupling. When properly installed, the mark should be visible against each end of the coupling.
4. The ends of the conduit can be lubricated with water or water with a small amount of liquid dishwashing soap. ***(Do not use motor oil or thread lubricants commonly used for metal pipe threads. This includes W-D 40® "type" lubricant.)***
5. On smaller diameter conduit, position coupling on the conduit, place a board across the end and hit with a small mallet or hammer. For easier installation of the E-LOC Transition Couplings, ETCO suggests installing the larger end of the conduit first – if possible. (Do not hit the coupling directly with the hammer.) On larger diameter conduit, clean and lubricate ends per steps #1 thru #4. Use a bar and a block to push the joint. If a hammer and block of wood are used, make sure wood is in contact with both sides of the coupling and hit block center. (Do not hit the coupling directly with the hammer.) Check to make sure conduit is all the way "home" using the reference point mark.
6. When joining conduit off a reel, install the E-Loc Coupling / Transition Coupling on conduit end coming from reel using steps #1 thru #5 above. After the coupling is on properly, push the installed coupling onto the clean second conduit end (lubricate if needed). If necessary, place a small board on the edge of coupling toward the reel and drive coupling on to second conduit. (Do not hit coupling directly with the hammer.)

E-LOC PLUS COUPLINGS



Nom Size	Part No.	Standard Duct Size	Coupling Body O.D. (IN.)	Length (IN.)	Pcs. Per Ctn.	Wt. Ctn.
1"	EL-131 PLUS	1.315" 1" IPS W/4 SCREWS	2.375	6	50	TBD
1-1/4"	EL-166 PLUS	1.660" 1-1/4" IPS W/4 SCREWS	2.375	6	50	TBD
1-1/2"	EL-190 PLUS	1.900" 1-1/2" IPS W/4 SCREWS	2.875	6	25	TBD
2"	EL-235 PLUS	2.350" OD DUCT W/4 SCREWS	3.500	6	25	TBD
	EL-237 PLUS	2.375" 2" IPS W/4 SCREWS	3.500	6	25	TBD
	EL-243 PLUS	2.430" 2" SIDR 11 W/4 SCREWS	3.500	6	25	TBD
2-1/2"	EL-287 PLUS	2.875" 2-1/2" IPS W/4 SCREWS	4.000	6	25	TBD
3"	EL-350 PLUS	3.500" 3" IPS W/8 SCREWS	4.500	6	25	TBD
4"	EL-400 PLUS	4.500" 4" IPS W/8 SCREWS	5.563	6	25	TBD
	EL-400-12 PLUS	4.500" 4" IPS X 12" LG W/8 SCREWS	5.563	12	10	TBD
5"	EL-500 PLUS	5.563" 5" IPS W/8 SCREWS	6.625	6	16	TBD
6"	EL-600 PLUS	6.625" 6" IPS W/8 SCREWS	7.700	6	12	TBD

E-Loc Plus Couplings are designed for .140" or thicker wall conduit.
Standard coupling length is 6" unless noted otherwise.
METRIC sizes are also available.

SPLIT-LOC COUPLING



The Split-Loc is a one piece split coupling, designed to facilitate fast and easy repairing of damaged conduit in tight or congested conditions.

It can be used to repair vacant or occupied ducts. Its design allows for overlay compression that grips the damaged conduit and seals watertight and airtight without the use of sealing adhesives!

Split-Loc's have the ability to join dissimilar materials, such as PVC, HDPE, fiberglass or metal, which makes it a versatile coupling for the telephone, electrical, and cable industry.

Perfect for all restrained (buried) and unrestrained repair applications where pulling tensions do not exceed 200 lbs.

Available in sizes from 1 1/4" though 6". Customized lengths up to 24" upon request.

Nominal Size	Actual Size	Coupling Length	Part No.
1 1/4"	1.660"	6"	SL-166
1 1/2"	1.900"	6"	SL-190
2"	2.375"	6"	SL-237
3"	3.500"	6"	SL-350
4"	4.500"	6"	SL-400
5"	5.563"	6"	SL-500
6"	6.625"	6"	SL-600
6"	6.625"	8"	SL-600-8
6"	6.625"	12"	SL-600-12

DOUBLE E-LOC® COUPLING



The ETCO Double E-Loc is a locking compression coupling used to join smooth, ribbed, corrugated or Figure 8 High Density Polyethylene (HDPE) conduit. The locking, pressure-tight design makes the Double E-Loc an ideal coupling for pneumatic cable placing applications when air and watertight integrity of the system is imperative. Unmatched pressure ratings, pull-out resistance, no metal parts, and no special tools make the ETCO Double E-Loc the preferred coupling. Lock rings specially designed to grip rigid PVC and steel pipe are also available.



DOUBLE E-LOC®

Part No.	Standard Duct Size	Length	Pieces Per Ctn.	Weight Per Ctn.
DEL-131	1.315" O.D. DUCT (1" IPS)	6.25"	50	63
DEL-135	1.350" O.D. DUCT	6.25"	50	63
DEL-142	1.420" O.D. DUCT / 1.460" O.D. RIBBED	6.25"	50	61
DEL-150	1.500" O.D. DUCT (1-1/2" TRUE SIDR 9)	6.25"	50	56
DEL-150UV	1.500" O.D. AERIAL	6.25"	50	56
DEL-154	1.540" O.D. DUCT /1.575" RIBBED	6.25"	50	58
DEL-154UV	1.540" O.D. AERIAL (1-1/4" TRUE)	6.25"	50	58
DEL-157	1.570" O.D. DUCT (40MM)	6.25"	50	56
DEL-160	1.600" O.D. DUCT	6.25"	50	56
DEL-160UV	1.600" O.D. AERIAL	6.25"	50	56
DEL-166	1.660" O.D. DUCT (1-1/4" IPS)	6.25"	50	48
DEL-166G	1.660" O.D. RIBBED	6.25"	50	48
DEL-166UV	1.660" O.D. AERIAL (1-1/4" IPS)	6.25"	50	53
DEL-171	1.710" O.D. DUCT (1-1/4" SIDR 9)	6.25"	50	54
DEL-178	1.780" O.D. DUCT / 1.830" RIBBED	8.25"	25	47
DEL-178UV	1.780" O.D. AERIAL	8.25"	25	47
DEL-183	1.830" O.D. DUCT (1-1/2" SIDR 9)	8.25"	25	46
DEL-190	1.900" O.D. DUCT (1-1/2" IPS)	8.25"	25	32
DEL-190UV	1.900" O.D. AERIAL (1-1/2" IPS)	8.25"	25	32
DEL-237	2.375" O.D. DUCT (2" IPS)	8.5"	25	51
DEL-237UV	2.375" O.D. AERIAL (2" IPS)	8.5"	25	51

Parts labeled UV are designed for above ground applications and are UV resistant.
METRIC sizes are also available.

DOUBLE E-LOC® TRANSITION COUPLING HDPE to HDPE Conduit



Part No.	Transition Size From (O.D. - IN.)	To (O.D. - IN.)	Pcs. Per Ctn.	Weight Per Ctn.
DEL-142131	1.420	1.315	50	
DEL-154150	1.540	1.500	50	58
*DEL-154150UV	1.540	1.500	50	
DEL-160135	1.600	1.350	50	
DEL-160150	1.600	1.500	50	
DEL-160154	1.600	1.540	50	59
DEL-166131	1.660	1.315	50	60
DEL-166135	1.660	1.135	50	
DEL-166142	1.660	1.420	50	
DEL-166150	1.660	1.500	50	
*DEL-166150UV	1.660	1.500	50	
DEL-166154	1.660	1.540	50	56
*DEL-166154UV	1.660	1.540	50	56
*DEL-166156UV	1.660	1.560	50	
DEL-166157	1.660	1.570	50	
DEL-166160	1.660	1.600	50	55
DEL-178150	1.780	1.500	25	
DEL-190131	1.900	1.315	25	
DEL-190154	1.900	1.540	25	
DEL-190166	1.900	1.660	25	
DEL-190178	1.900	1.780	25	
DEL-237154	2.375	1.540	25	
DEL-237166	2.375	1.660	25	
DEL-237190	2.375	1.900	25	75

*UV RESISTANT

DOUBLE E-LOC® TRANSITION FITTINGS

HDPE Polyethylene to Rigid PVC

Double E-loc to Male Pipe Thread

Double E-Loc to Solvent Weld



MALE PIPE THREAD

DEL-166-1.25 MPT

DEL-190-1.50 MPT

DEL-237-2.00 MPT

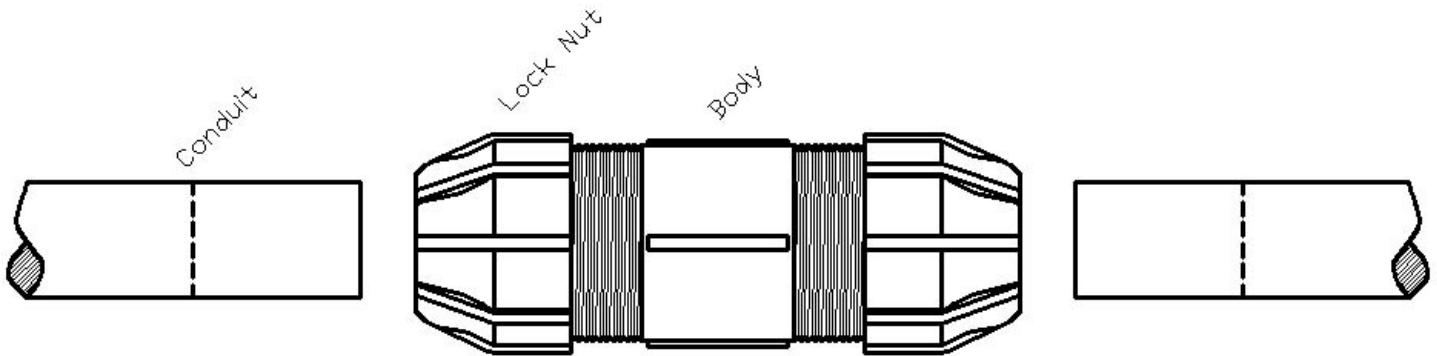
MALE SOLVENT WELD

DEL-166-1.25MSW

DEL-190-1.50 MSW

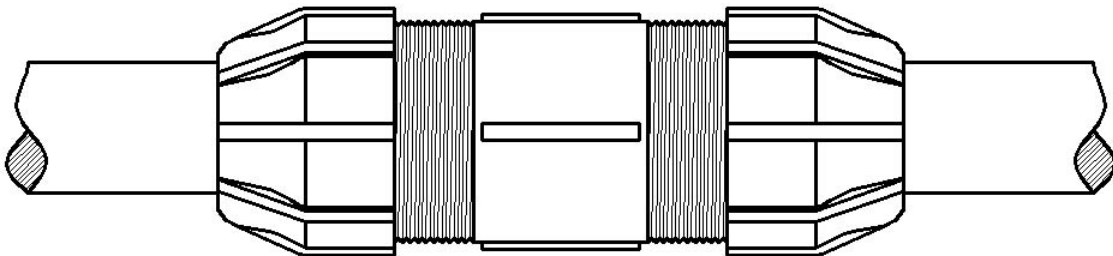
DEL-237-2.00 MSW

INSTALLATION INSTRUCTIONS DOUBLE E-LOC® COUPLINGS METHOD 1

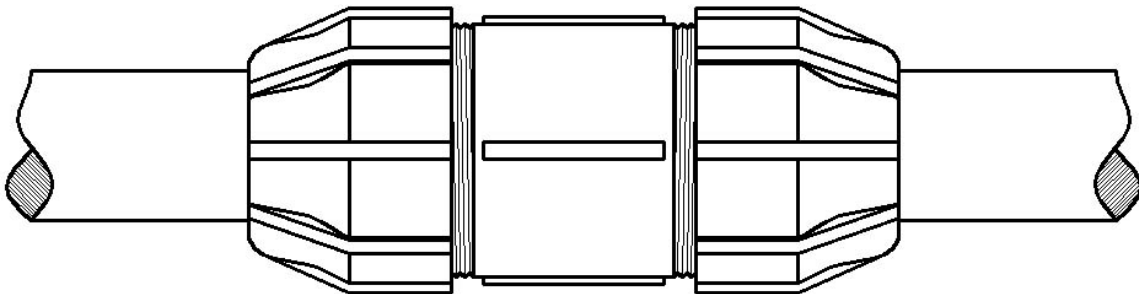


- 3 $\frac{1}{8}$ " Mark (for 1" to 1 $\frac{1}{4}$ " Double E-Loc)
- 3 $\frac{3}{8}$ " Mark (for 1 $\frac{1}{2}$ " Double E-Loc)
- 3 $\frac{7}{8}$ " Mark (for 2" Double E-Loc)
- (Typical)

Loosen Lock Nuts until 1" of thread is visible on each side of body. Mark each conduit 3 $\frac{1}{8}$ " from the end (for 1" to 1 $\frac{1}{4}$ " sizes), 3 $\frac{3}{8}$ " from the end (for 1 $\frac{1}{2}$ " sizes) or 3 $\frac{7}{8}$ " from the end (for 2" sizes)



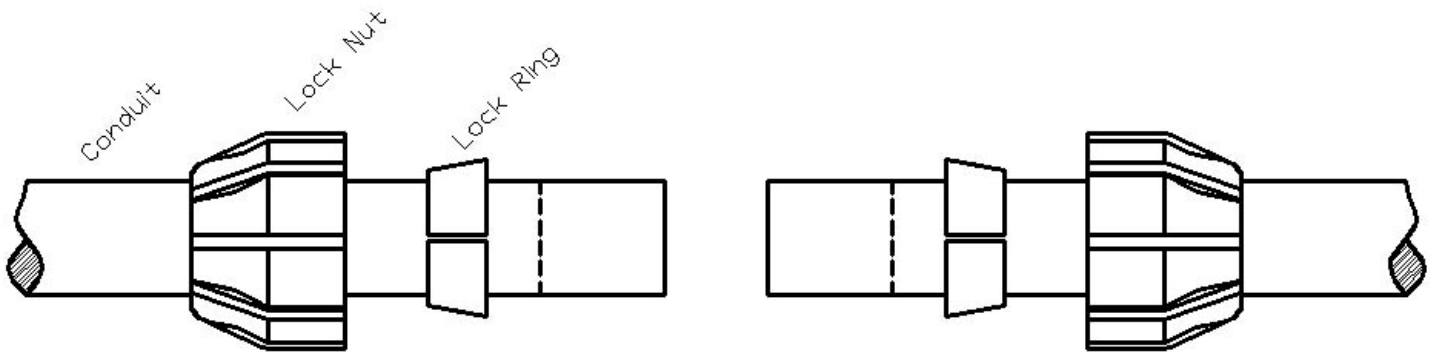
Push conduit into each end of Double E-Loc coupling body making sure the conduit is tight against the center stop.



Tighten lock nut on each end of body hand tight.

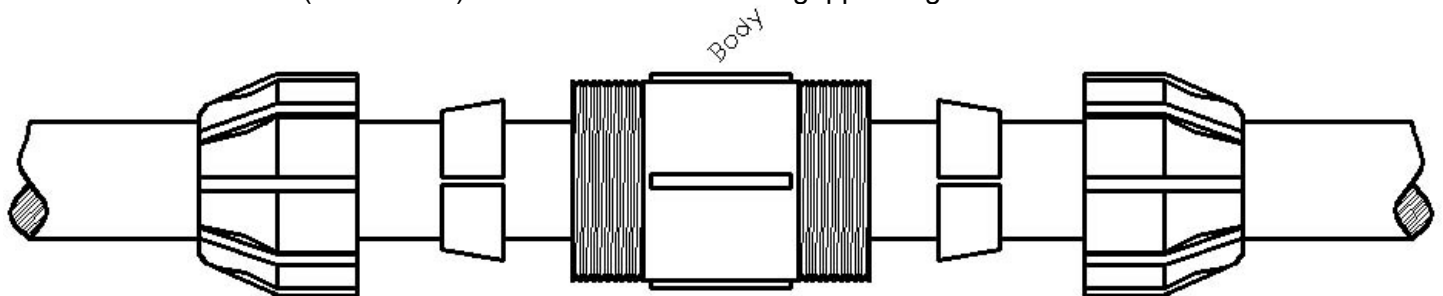
INSTALLATION INSTRUCTIONS DOUBLE E-LOC® COUPLINGS

METHOD 2

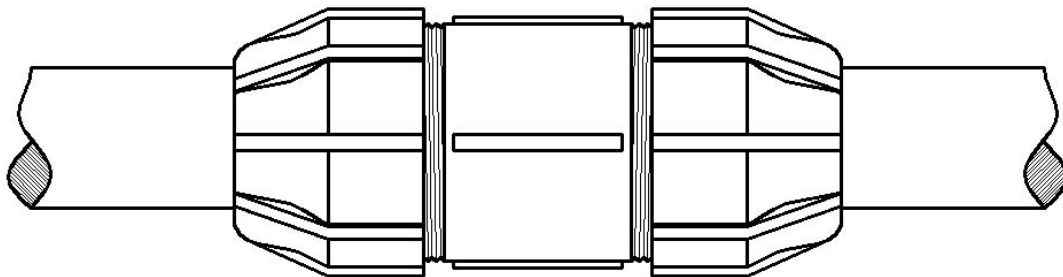


1 $\frac{1}{8}$ " Mark (for 1" to 1 $\frac{1}{4}$ " Double E-Loc)
2 $\frac{1}{8}$ " Mark (for 1 $\frac{1}{2}$ " Double E-Loc)
2 $\frac{1}{2}$ " Mark (for 2" Double E-Loc)
(Typical)

Slip lock nut and split gripper ring on each side of conduit to be coupled.
Mark each conduit 1 $\frac{1}{8}$ " from the end (for 1" to 1 $\frac{1}{4}$ " sizes) or 2 $\frac{1}{8}$ " from the end (for 1 $\frac{1}{2}$ " sizes) and 2 $\frac{1}{2}$ " from the end (for 2" sizes). Make sure small end of gripper ring is towards lock nut.



Push conduit into each end of Double E-Loc coupling body making sure the conduit is tight against the center stop.



Tighten lock nut on each end of body hand tight.

T-LOC COUPLING



The T-Loc compression coupling is designed to join various toneable HDPE innerduct, specifically for pneumatic cable placing when air and watertight integrity of the system is imperative.

The T-Loc coupling will maintain pressures above 200 psi unrestrained. The coupling has a center-threaded body extension with 1" NPT threads and a terminating cap. Threaded 1" NPT pipe extensions can be added to allow for above ground conductor connections or terminations and for toning access.

Part Number	Description
TLC-131	1" T-LOC 1.315"
TLC-166	1-1/4" T-LOC 1.660"
TLC-190	1-1/2" T-LOC 1.900"
TLC-237	2" T-LOC 2.375

EXTENSION PLUG

EXP-131	1" NPT X 3" LONG
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T- LOC Compression Coupling Data Sheet

Product Description

The T - LOC compression coupling is designed to join various toneable HDPE innerduct, specifically for pneumatic cable placing when air and watertight integrity of the system is imperative. THE T-LOC coupling will maintain pressures above 200 psi unrestrained. The coupling has a center-threaded body extension with 1" NPT threads and a terminating cap. Threaded 1" NPT pipe extensions can be added to allow for above ground conductor connections or terminations and for toning access.

Product Applications *

Accommodates joining toneable HDPE innerduct in vaults, manholes, handholds and buried applications. Highly recommended for use in corrosive environments that adversely affect aluminum couplings.

The T - LOC compression coupling is designed to protect the toneable conductor and accommodate access to the conductor when locating tone is required.

* Not for use in potable water systems or gas line applications.

Housing Material: Injection molded PVC

Conforming Standards: ASTM D1238, D638, D790, D256, D785, D648 and UL94

Gripping Ring: Injected Molded Acetal

Conforming Standards: ASTM D2240, D792, D648, D638, D790, D695 and D256

Locking Nut: Injection Molded PVC

Conforming Standards: ASTM D2240, D792, D648, D638, D790, D695 and D256

Elastomeric Seal: ETCO UR-8706 or ETCO UR-9408 Thermosetting Polyurethane

Conforming Standards: ASTM D676, ASTM D412, ASTM D624 Die "C", ASTM D792, ASTM D575 and meets or exceeds all material of ASTM C425

Applicable Standards Met *

Exceeds NEMA TC 2-1998, Section 5.4, Leakage of Joints

Exceeds NEMA TC 3-1999 Section 5.4, Bending

Exceeds NEMA TC 3-1999 Section 5.5, Axial Pull Test on Joints

Meets NEMA TC 2-1998, 6.1.3, Additional Markings, (All products are marked with permanent part number markings)

* Applications Standards Testing performed in-house

EASY-LOC EXTERNAL COUPLINGS



The Easy-Loc External Coupling is a machined right hand / left hand reverse threaded coupling used to join smooth, corrugated, or ribbed HDPE conduit. The Easy-Loc's streamlined design is ideal for applications where space is critical.

The unique thread design provides good pullout strength while reducing the number of revolutions necessary for installation. The Easy-Loc is not suitable when airtight or watertight connections are required. The Easy-Loc is available in aluminum for non-corrosive environments.

Part Number	Duct Size (O.D.)
AS 1.050 - 4	3/4" (1.050")
AS 1.315 - 4	1" (1.315")
AS 1.660 - 4	1 1/4" (1.660")
AS 1.900 - 4	1 1/2" (1.900")
AS 2.375 - 4	2" (2.375")
AS 2.875 - 4	2 1/2" (2.875")
AS 3.500 - 4	3" (3.500")
AS 4.500 - 4	4" (4.500")
AS 5.562 - 4	5" (5.562")
AS 6.625 - 4	6" (6.625")

2 PIECE SPLIT PLASTIC COUPLING



The 2 Piece Split Plastic Coupling was developed to provide an inexpensive split coupling for harsh environments. The UV glass reinforced nylon body, rubber gasket, and stainless steel fasteners make this coupling essentially impervious to corrosion.

Part Number	Duct Size (O.D.)
PE 1.050-2	3/4" (1.050)
PE 1.315-2	1" (1.315)
PE 1.350-2	1" (1.350)
PE 1.590-2	1 1/4" (1.590)
PE 1.660-2	1 1/4" (1.660)
PE 1.900-2	1 1/2" (1.900)
PE 2.375-2	2" (2.375)

JET-LOC BARBED COMPRESSION COUPLING



The Jet-Loc barbed compression coupling provides a pressure tight, streamlined design for blowing applications in HDPE conduit. The sharp, precision-cut internal barbs provide good pullout resistance with a pressure tight seal. The Jet-Loc installs easily with a hydraulic coupling press and is available in aluminum (for non-corrosive environments) and high impact plastic.

ALUMINUM BARBED

Part Number	Duct Size (O.D.)
AB 1.050 - 4	3/4" (1.050)
AB 1.315 - 4	1" (1.315)
AB 1.660 - 4	1 1/4" (1.660)
AB 1.900 - 4	1 1/2" (1.900)
AB 2.375 - 4	2" (2.375)

PLASTIC BARBED

Part Number	Duct Size (O.D.)
PB 1.660	1 1/4" (1.660)
PB 1.900	1 1/2" (1.900)
PB 2.375	2" (2.375)

ALUMINUM THREADED COUPLINGS

STRAIGHT THREAD/PIPE THREAD

Part Number	Duct Size (O.D.)
ASP 1.315-4	1" (1.315)
ASP 1.660-4	1-1/4" (1.660)
ASP 1.900-4	1-1/2" (1.900)
ASP 2.375-4	2" (2.375)
ASP 2.875-4	2-1/2" (2.875)
ASP 3.500-4	3" (3.500)
ASP 4.500-4	4" (4.500)
ASP 6.625-4	6" (6.625)

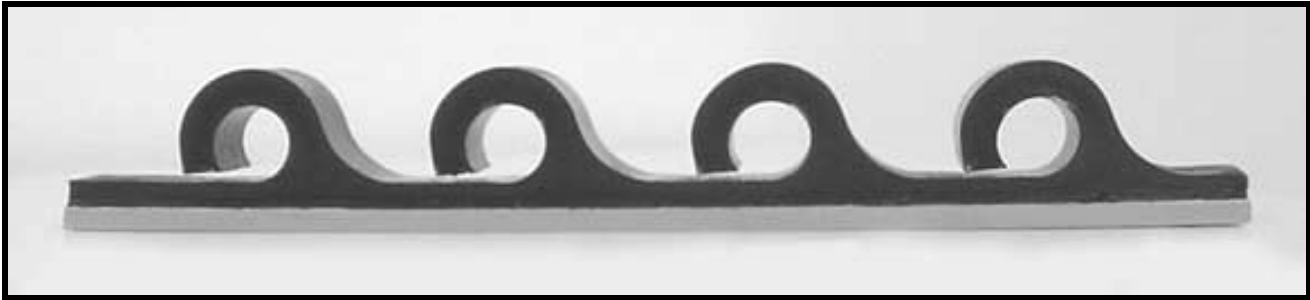
STANDARD THREAD/REDUCER

Part Number	Duct Size
ASR 1.900-1.660	1-1/2" > 1-1/4"
ASR 2.375-1.315	2" > 1"
ASR 2.375-1.660	2" > 1-1/4"
ASR 2.375-1.900	2" > 1-1/2"

UNIVERSAL TAPERED

Part Number	Duct Size
UNIVERSAL 1"	1.180" - 1.420"
UNIVERSAL 1-1/4"	1.450" - 1.700"
UNIVERSAL 1-1/2"	1.760" - 2.000"
UNIVERSAL 2"	2.260" - 2.500"

SOFT-TUFF CABLE RACKS



Soft-Tuff Cable Racks organize and support Fiber Optic cables and copper cables up to 1" diameter in hand-holes, manholes, vaults or any location that requires safe and quick cable arrangement. Product design allows for accidental pullouts without damaging the cable. The Soft-Tuff Cable Racks can be attached to existing cable racks with cable ties or attached to solid surfaces with self-tapping screws.

Soft-Tuff Cable Racks are available in the following standard un-drilled sizes.*

Part Number	Description
CR-11.5	4 LOOP 11.5" LONG
CR-21	8 LOOP 21" LONG
CR-29	12 LOOP 29" LONG

*Custom lengths and pre-drilled Soft-Tuff Cable Racks are available at additional pricing.

QUICK SEAL TERMINATORS



Quick Seal Terminators join fiber optic innerduct to assorted cabinets. Quick Seal Terminators incorporate the ETCO E-Loc features to create a weather resistant seal that protects the innerduct and cable from kinks and cabinet termination against environmental intrusions. Hand installation; no tools required.

They are available in the following sizes:

ELECTRICAL TERMINAL ADAPTER

ETA-131
ETA-166
ETA-190
ETA-237

DOUBLE E-LOC ELECTRICAL TERMINAL ADAPTER

DETA-131
DETA-166
DETA-190
DETA-237

CLAY BELL GASKETED ADAPTERS



PVC SDR 35 GASKETED JOINT ADAPTERS		Type Joint	Pieces Per Carton	Weight Per Carton
Part No.	Description			
MF-601D	6" DCB to 6" PVC-PSM (6.275" O.D.)	Gasket	18	44
MF-801D	8" DCB to 8" PVC-PSM (8.400" O.D.)	Gasket	12	59
MF-101D	10" DCB to 10" PVC-PSM (10.500" O.D.)	Gasket	4	27
MF-121D	12" DCB to 12" PVC-PSM (12.500" O.D.)	Gasket	2	20

T-CONE® ADAPTERS



T- CONE PIPE ADAPTERS			Pieces	Weight
Part No.	Description	Type Joint	Per Carton	Per Carton
A-442P	4" PIPE BARREL (5.620" I.D.) to 4" PVC-PSM (4.215" O.D.)	SW	50	39
A-444A	4" PIPE BARREL (5.620" I.D.) to 4" ABS SCH 40 (4.500" O.D.)	SW	50	36
A-444P	4" PIPE BARREL (5.620" I.D.) to 4" PVC SCH 40 (4.500" O.D.)	SW	48	42
A-642	6" PIPE BARREL (5.950" I.D.) to 4" PVC-PSM (4.215" O.D.)	SW	36	37
A-644	6" PIPE BARREL (5.950" I.D.) to 4" PVC SCH 40 (4.500" O.D.)	SW	36	35
A-644A	6" PIPE BARREL (5.950" I.D.) to 4" ABS SCH 40 (4.500" O.D.)	SW	36	32

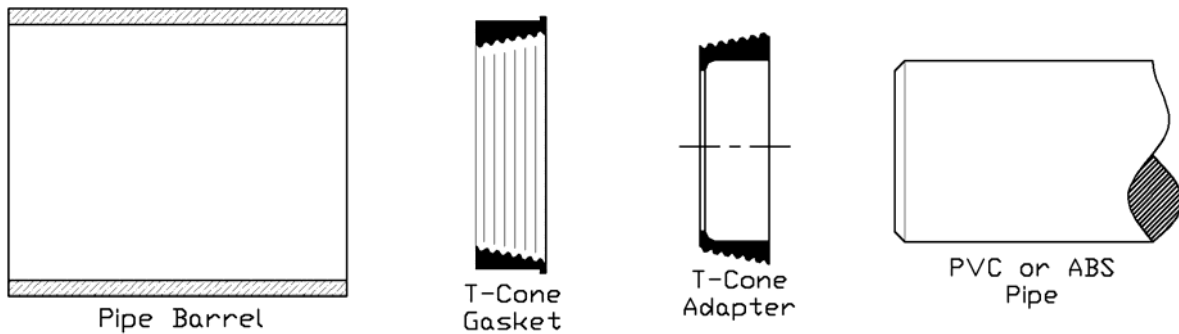
CLAY BELL ADAPTERS



CLAY BELL SOLVENT WELD ADAPTERS		Type	Pieces	Weight
Part No.	Description	Joint	Per Carton	Per Carton
A-442	4" DCB to 4" PVC-PSM (4.215" O.D.)	SW	40	39
A-444	4" DCB to 4" PVC SCH 40 (4.500" O.D.)	SW	40	38
A-662	6" DCB to 6" PVC-PSM (6.275" O.D.)	SW	30	50
A-664	6" DCB to 6" PVC SCH 40 (6.625" O.D.)	SW	18	35

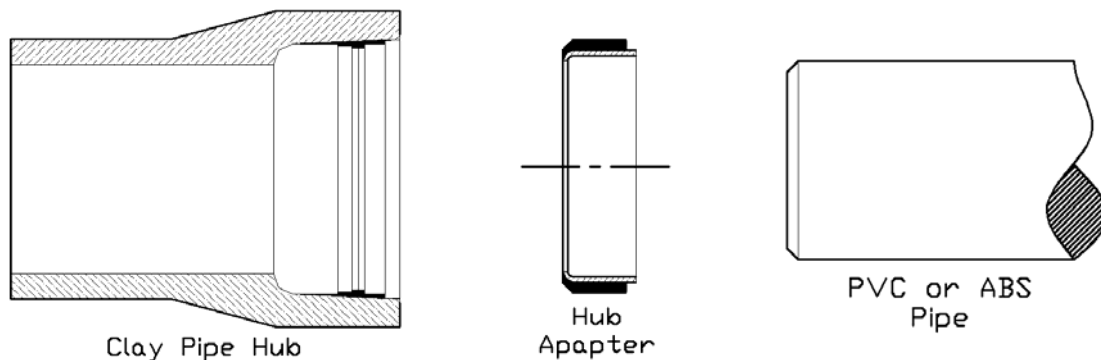
T-CONE® & COUPLING ADAPTERS

T-Cone Adapters



1. Clean T-Cone adapter socket and spigot with solvent cleaner or primer.
2. Solvent weld T-Cone adapter on pipe.
3. Allow solvent welded joint to reach full cure.
4. Place T-Cone gasket into barrel of pipe.
5. Screw T-Cone adapter ring and pipe into T-Cone gasket until "hand tight". Then tighten $\frac{3}{4}$ to one full turn with a strap wrench. Keep wrench at least 6 inches from the solvent welded joint on thin wall PVC sewer & drain pipe.

Clay Bell Adapters



1. Clean hub adapter socket and spigot with solvent cleaner or primer.
2. Solvent weld the pipe into the socket of the adapter.
3. DO NOT ASSEMBLE into the clay bell or sleeve until the solvent welded joint has cured.

The solvent welded adapters are manufactured in accordance with applicable ASTM standards. ETCO or their distributors are not responsible for the workmanship of the installer or the integrity of the solvent welded joint. ETCO will replace adapters proven to be defective, but the cost of uncovering and replacing adapters will be the responsibility of the purchaser.



SPECIALTY PRODUCTS, INC.

P.O. BOX 346 • GIRARD, KS 66743 • TEL: 800-356-4540 FAX: (620) 724-8099
www.etcospecialtyproducts.com Email: etco@ckt.net

WARRANTY

The limited warranty herein set forth is the exclusive warranty given by seller for its goods. ETCO Specialty Products, Inc. ("ETCO") warrants that its Duct Plugs, Couplings, and Adapters are manufactured in compliance with applicable material specifications and is free from defects in material and workmanship at the time it is manufactured. ETCO'S liability for breach of the warranty or any other warranty, oral or written, expressed or implied, shall be to replace Duct Plugs, Couplings, and Adapters which ETCO determines to be defective. There are many conditions, under which ETCO'S Duct Plugs, Couplings, and Adapters may be installed and used that are beyond the knowledge and control of ETCO. THEREFORE ETCO DOES NOT MAKE ANY WARRANTY, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, SUITABILITY FOR ANY PARTICULAR PURPOSE, OR DURABILITY OF DUCT PLUGS, COUPLINGS, AND ADAPTERS. IN NO EVENT SHALL ETCO (OR ITS AUTHORIZED REPRESENTATIVES) BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF SALES, PROFIT, REVENUE OR GOODWILL, COST OF CAPITAL, COST OF SUBSTITUTE PRODUCTS, FACILITIES, OR SERVICES DOWNTIME COSTS, OR ATTORNEY'S FEES. *ETCO NEITHER ASSUMES, NOR DOES IT AUTHORIZE ANY OTHER PERSON TO ASSUME ON ITS BEHALF, ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF DUCT PLUGS, COUPLINGS, AND ADAPTERS.*

RETURN POLICY AND AUTHORIZATIONS

Unless stated otherwise via a contract between ETCO and the customer all sales are considered final thirty (30) days from invoice date. All authorized returns approved within the 30-day period will be charged a 20% restocking fee, no exceptions. The returning customer will show date of purchase with purchase order number, and will pay freight. All approved returns will be given as account credit towards future orders. Non-standard product orders will not be accepted for return. All shortages and errors must be reported within ten (10) days after delivery of products. No credit will be allowed for products returned without a return authorization. All product returns will be inspected by ETCO for acceptance prior to final return approval. To receive permission or a return authorization number, contact ETCO at 620-724-6463.