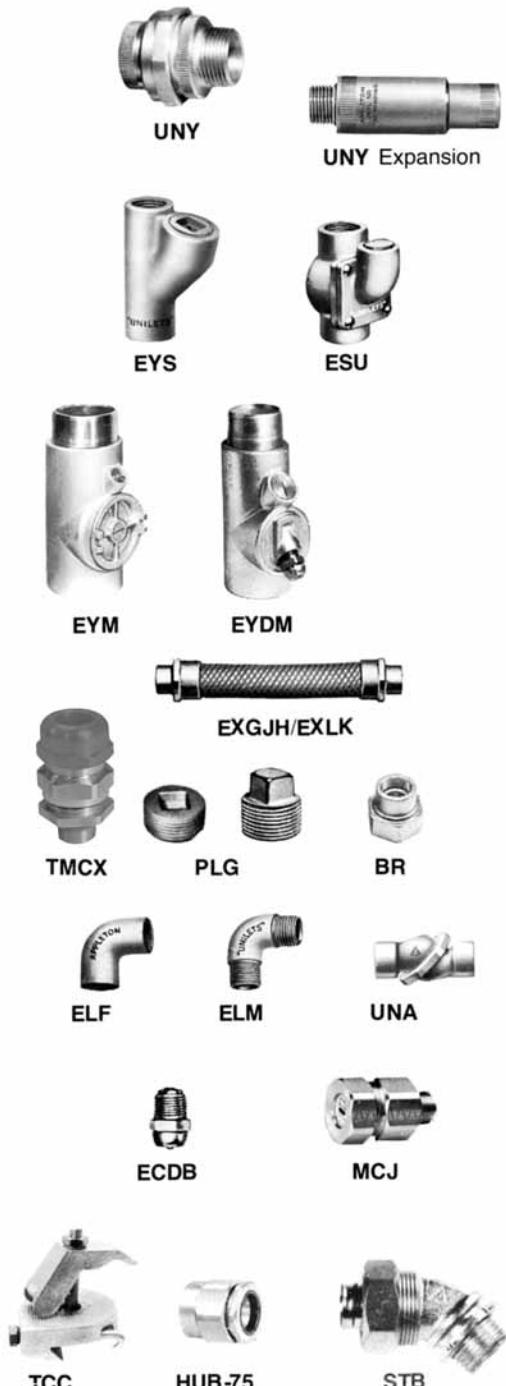


Unions, Couplings and Seals: Explosionproof, Dust-Ignitionproof



Page	Description
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2,3,5	UNY and UNF Expansion Unions
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Unions, Sealing Fittings, Flexible Couplings, Elbows, Drain/Breather, Close-Up Plugs: Explosionproof

UNILETS® for Use with Threaded Metal Conduit

Applications: Unions

- UNY and UNF unions are used for joining conduit and connecting conduit to enclosures. Facilitates modifications, permits removal of enclosures without turning or removal of conduit.
- Expansion unions compensate for expansion and contraction of conduit.

Applications: Sealing Fittings

- Prevent passage of gases, vapors or flames from one portion of conduit system to another. Restrict any explosion to the sealed off enclosure. Prevent pressure piling within conduit system.
- Required in Class 1, Division 1 and 2 locations within 18" of enclosures containing apparatus that may cause arcs, sparks or high temperatures.
- Required in Class I, Division 1 and 2 locations where 2" or larger conduit enters enclosure, fitting housing terminals, splices or taps.
- Required in Class 1, Division 1 and 2 locations at the boundary where conduit leaves classified location.
- Required in Class 1, Division 1 and 2 locations where two or more enclosures are connected by 36" or less conduit. Seal must be located within 18" of either enclosure.
- Required where cables (which exceed rate of gas or vapor transmission permitted for seals) are used in Class 1, Division 2 locations.

Applications: Sealing Hubs

- Used to seal vertical conduit risers at switch gear and motor control centers, sheet metal structures, or cast boxes and enclosures.

Applications: Flexible Couplings

- Used in areas where vibration and/or movement is a problem. Also used in place of rigid conduit in difficult-bend situations.

Applications: Combination Drain/Breather

- ECBD, when installed in bottom of housing, functions as a drain for water formed by condensation within system. Installed in top of housing, it serves as a breather, providing ventilation to minimize condensation and prevent mildew formation.



① UNY/UNF Unions



② UNY/UNF Expansions Unions



③ EY, EYS, EYD Series Drain Seals



④ ES Series Sealing Hubs



⑤ EXGJH/EXLK Flexible Couplings



PLG Close-Up Plugs



BR Bell Reducer



EL Elbows



ECDB Drain/Breathers

Unions, Sealing Fittings, Flexible Couplings, Elbows, Drain/Breather, Close-Up Plugs: Explosionproof

UNILETS® for Use with Threaded Metal Conduit

Features: All Fittings

- Explosionproof, dust-ignitionproof.
- Smooth, rounded integral bushing in each hub protects conductor insulation.
- Accurately tapped, tapered threads for tight, rigid joints and ground continuity.

Features: Non-Expansion Unions

① Concentric ring interlocked design of 1/2", 3/4" and 1" sizes makes possible smaller diameter, allowing use in tighter spaces. 1-1/4" and larger UNY sizes have removable male nipple.

- Choice of malleable iron or aluminum.

Features: Expansion Unions

- ② One-piece design eliminates need for disassembly during installation.
- Telescoping cylinder within cylinder design permits expansion or contraction.
 - Standard or long types available.
 - Small external diameters—excellent in restricted areas in wiring of pumps, motors, and other equipment.
 - Internal phosphor bronze "bonding jumper" ring assures positive ground between telescoping cylinders.

Features: Sealing Fittings

- ③ Raintight construction.
- Removable nipple in male sealing fitting may be used interchangeably in top or bottom hub.
 - EYS—for sealing vertical conduit. Large opening for damming and filling.
 - Expanded Fill EYSEF/EYDEF—allow up to 40% conduit fill in compliance with the National Electrical Code.
 - EYSF/EYSM—for sealing vertical conduit. Large opening for damming and filling.
 - ESUF/ESUM for sealing vertical or horizontal conduit. Pouring spout rotates 90° Removable cover provides full access for damming 2-1/2" thru 4" sizes have threaded cover openings for damming.
 - EYF/EYM—close radius type for sealing vertical or horizontal conduit runs.
 - EYDM Drain Sealing Fittings—close radius type for sealing vertical conduit runs. Access cover has drain valve for automatic draining of water accumulation above the seal.
 - Kwiko® A sealing cement is a specially formulated water soluble powder. Mixed to the proper proportions, it is poured in sealing fittings and hardens to contain

and restrict the passage of gases and explosions in classified areas.

- Fiber Filler-makes dams around and between all conductors to prevent sealing compound from leaking while being poured in its liquid state.

Features: Sealing Hubs

- ④ UL Listed for use in hazardous locations when Kwiko® A Sealing Compound or Crouse-Hinds Chico® A Sealing Compound are used to make the seal.

Features: Flexible Couplings

- ⑤ Heavy duty design resists mechanical abuse. Watertight.
- Electrical conductivity equal to rigid conduit on a similar length basis—no bonding jumper required.
 - Interior insulating liner protects conductors from abrasion under vibrating conditions.
 - EXGJH—both end fittings are female, each furnished with a removable male nipple.
 - EXLK—female end fitting with union at one end and a female end fitting with a removable male nipple at the other end.

Standard Materials

- UNY and UNF (Non-Expansion) Unions, 1/2" thru 1": steel or aluminum. 1-1/4" thru 6": malleable iron or aluminum.
- UNY and UNF Expansion Unions: steel.
- UNL Unions: malleable iron and steel.
- EYSF/EYSM, EYF/EYM and EYDM Seals: malleable iron or Almag 35 aluminum.
- EYS, EYSEF/EYDEF, and ESUF/ESUM: malleable iron.
- EYD and EYS Seals: Grayloy®-iron.
- EXGJH and EXLK Couplings, 1/2" thru 2": outer bronze braid, inner brass core with insulating liner; 2-1/2" thru 4": outer stainless steel braid, inner stainless steel core with insulating liner. End Fittings: 1/2" thru 2"—brass; 2-1/2" thru 4"—stainless steel.
- PLG Close-Up Plugs: malleable iron, steel, or aluminum.
- BR Reducers: malleable iron or aluminum.
- EL and UNA Elbows: malleable or cast iron.
- ECDB Combination Drain/Breather: stainless steel.

Standard Finishes

- Unions—UNY, UNF and UNL (Non-Expansion) and UNY and UNF (Expansion)

of malleable iron have triplecoat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat, of steel have zinc electroplate, of aluminum 1/2" thru 2" have natural finish and 2-1/2" thru 4" have epoxy powder coat.

- Sealing Fittings—EYSF/EYSM, ESUF/ESUM, EYF/EYM, EYDM and EYD/EYS of malleable iron and Grayloy®-iron have triple-coat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat, of Almag 35 aluminum have epoxy powder coat.

- Sealing Hubs—ES of malleable iron have a triple-coat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat.

- Flexible Couplings—EXGJH and EXLK natural finish.

- Close-up Plugs—PLG of malleable iron have a triple-coat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat; steel have zinc electroplate; aluminum have natural finish.

- Bell Reducers—BR of malleable iron have a triple-coat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat; aluminum have natural finish.

- Elbows—EL are malleable iron and have zinc electroplate; UNA are malleable iron and have a triple-coat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat.

- Combination Drain/Breathers—ECDB are passivated stainless steel and have a natural finish.

Options

- For ES Sealing Hubs, add suffix **BLSG** for sealing gaskets and locknuts (provide a water and oil-tight connection).

Compliances

- UL Standard 886
- Appleton malleable iron products conform to ASTM A47-77, Grade 32510. which has the following properties: tensile strength, 50,000 psi; yield, 32,000 psi; and elongation, 10%.
- Appleton aluminum products are produced from a high strength copper-free (4/10 or 1% max.) alloy.
- Class I, Div. 1 & 2 and Class II, Div. 1 & 2, if installed as follows: *Unions, Elbows, Plugs, Flex. Couplings—NEC 501-4 (a)(b); Seals—NEC 501-5 (a)(b)(c)(d)(e) and NEC 502-5; Drains—NEC 501-5(f)*.

**Class I, Div. 1 and 2
Groups A,B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III**

Unions: UNY, UNF, and UNL; Explosionproof, Dust-Ignitionproof

UNILETS® for use with Threaded Metal Conduit

Size (Inches)	Dimen. in Inches		Dimen. in Millimeters		Catalog Number		
	A	B	A	B	Steel (1/2" to 1") and Malleable (1-1/4" to 6")	Aluminum (1/2" to 4")	
UNY Unions							
For connecting conduit to enclosure							
Male/Female (Nipple Not Removable)							
1/2"	2.14	1.47	54.4	37.3	UNY50NR+	UNY50NR-A+	
3/4-1/2†	2.16	1.47	54.8	37.3	UNY75-50NR+	UNY75-50NR-A+	
3/4"	2.16	1.75	54.8	44.5	UNY75NR+	UNY75NR-A+	
1"	2.62	2.00	66.7	50.8	UNY100NR+	UNY100NR-A+	
Male/Female (Removable Male Nipple)							
1-1/4"—4"	3.13	2.81	79.4	71.4	UNY125NR+	UNY125NR-A+	
1-1/2	3.25	3.06	82.6	77.8	UNY150NR+	UNY150NR-A+	
2"	3.63	3.72	92.1	94.5	UNY200NR+	UNY200NR-A+	
UNF Female Unions							
For connecting conduit to conduit							
1/2"—1"							
1/2"	1.47	1.47	37.3	37.3	UNF50NR+	UNF50NR-A+	
3/4-1/2†	1.47	1.47	37.3	37.3	UNF75-50NR+	UNF75-50NR-A+	
3/4"	1.47	1.75	37.3	44.5	UNF75NR+	UNF75NR-A+	
1"	1.72	2.00	43.7	50.8	UNF100NR+	UNF100NR-A+	
1-1/4"—4"							
1-1/4"	2.19	2.81	55.6	71.4	UNF125NR+	UNF125NR-A+	
1-1/2	2.19	3.06	55.6	77.8	UNF150NR+	UNF150NR-A+	
2"	2.31	3.72	58.7	94.5	UNF200NR+	UNF200NR-A+	
5"—6"							
2-1/2	3.38	4.88	85.7	123.8	UNF250R+	UNF250R-A+	
3	3.38	5.38	85.7	136.5	UNF300R+	UNF300R-A+	
3-1/2	3.38	5.88	85.7	149.2	UNF350R+	UNF350R-A+	
4"	3.50	6.44	88.9	163.5	UNF400R+	UNF400R-A+	
5	3.88	8.38	98.4	212.7	UNF500R		
6	4.00	9.63	101.6	244.5	UNF600R		
UNL 90° Elbow Unions							
For connecting conduit to enclosure							
Male-Female	A	B	C	A	B	C	
1/2-1/2	2.44	1.38	1.75	62.0	35.1	44.5	UNL50N+
1/2-3/4†	2.46	1.63	1.69	62.5	41.4	42.9	UNL50-75N+
3/4-1/2†	1.94	1.38	1.50	49.3	35.1	38.1	UNL75-50N+
3/4-3/4	2.03	1.63	1.56	51.6	41.4	39.6	UNL75N+

† Indicates items in the shaded area which are U.L. Listed for Class I, Groups A,B,C & D; Class II, Groups E,F and G; and Class III.

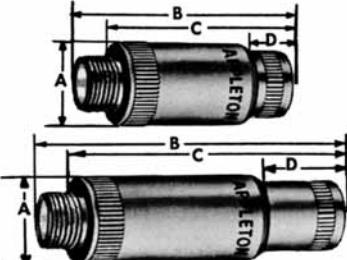
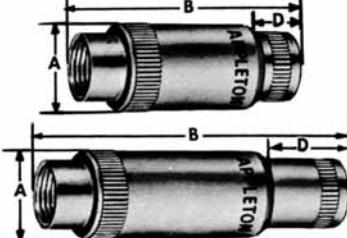
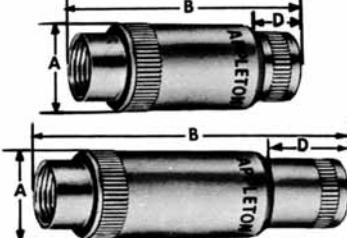
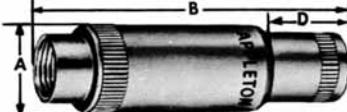
♦ Indicated items in the shaded area which are U.L. Listed for Class I, Groups B,C and D; Class II, Groups E,F and G; and Class III.

† Male end given first.

Class I, Div. 1 and 2
Groups C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III

Expansion Unions: UNY and UNF; **Explosionproof, Dust-Ignitionproof**

UNILETS® for Use with Threaded Metal Conduit

Size (Inches)	Catalog Number Steel
	UNY Male Unions— Standard For connecting conduit to enclosure 1/2 UNY50 3/4 UNY75 1 UNY100
	UNYL Male Unions— Long For connecting conduit to enclosure 1/2 UNYL50 3/4 UNYL75 1 UNYL100
	UNF Female Unions— Standard For connecting conduit to conduit 1/2 UNF50 3/4 UNF75 1 UNF100
	UNFL Female Unions— Long For connecting conduit to conduit 1/2 UNFL50 3/4 UNFL75 1 UNFL100

Dimensions in Inches

Catalog Number	Size (Inches)	A	B (Overall Length at Max. Expansion)	C	D (Maximum Expansion)
UNY50	1/2	1.19	2.88	2.31	.50
UNY75	3/4	1.44	3.06	2.44	.53
UNY100	1	1.75	3.38	2.69	.66
UNYL50	1/2	1.19	3.88	3.31	1.00
UNYL75	3/4	1.44	4.06	3.44	1.09
UNYL100	1	1.75	4.69	4.00	1.34
UNF50	1/2	1.19	2.94		.50
UNF75	3/4	1.44	3.06		.53
UNF100	1	1.75	3.38		.66
UNFL50	1/2	1.19	3.94		1.00
UNFL75	3/4	1.44	4.13		1.09
UNFL100	1	1.75	4.75		1.34

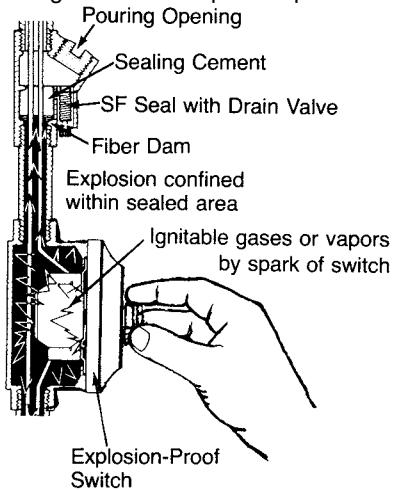
Dimensions in Millimeters

UNY50	1/2	30.2	73.0	58.7	12.7
UNY75	3/4	36.5	77.8	61.9	13.5
UNY100	1	44.5	85.7	68.3	16.7
UNYL50	1/2	30.2	98.4	84.1	25.4
UNYL75	3/4	36.5	103.2	87.3	27.8
UNYL100	1	44.5	119.1	101.6	34.1
UNF50	1/2	30.2	74.6		12.7
UNF75	3/4	36.5	77.8		13.5
UNF100	1	44.5	85.7		16.7
UNFL50	1/2	30.2	100.0		25.4
UNFL75	3/4	36.5	104.8		27.8
UNFL100	1	44.5	120.7		34.1

NEC Sec. 501-5 Highlights on Sealing Fitting Requirements

Class I, Div. 1 and 2.

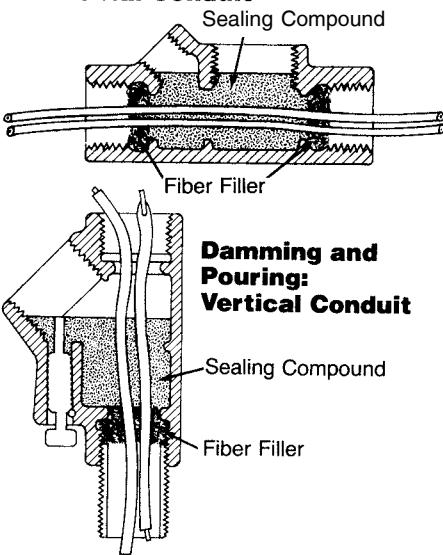
Sealing fittings prevent passage of gases, vapors or flames from one portion of a conduit system to another. They also restrict large amounts of ignitable gases or vapors from accumulating to confine explosive pressure.



Appleton sealing fittings are suitable for Class I and II locations.

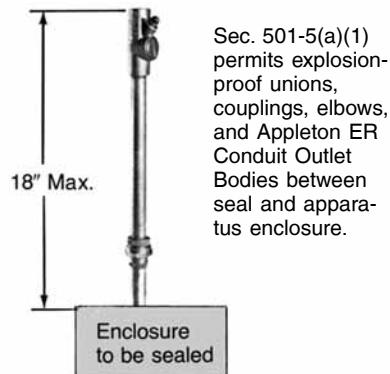
EYS, SF and EYD are for sealing vertical conduit. EY and ESU are for sealing vertical and horizontal conduit. SF and EYD also have drain valves.

Damming and Pouring: Horizontal Conduit



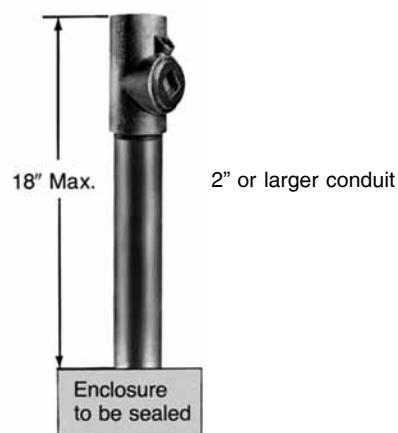
Class I, Div. 1 and 2

Seals must be placed in each conduit within 18" of a device that may produce arcs, sparks, or high temperatures.



Class I, Div. 1 and 2

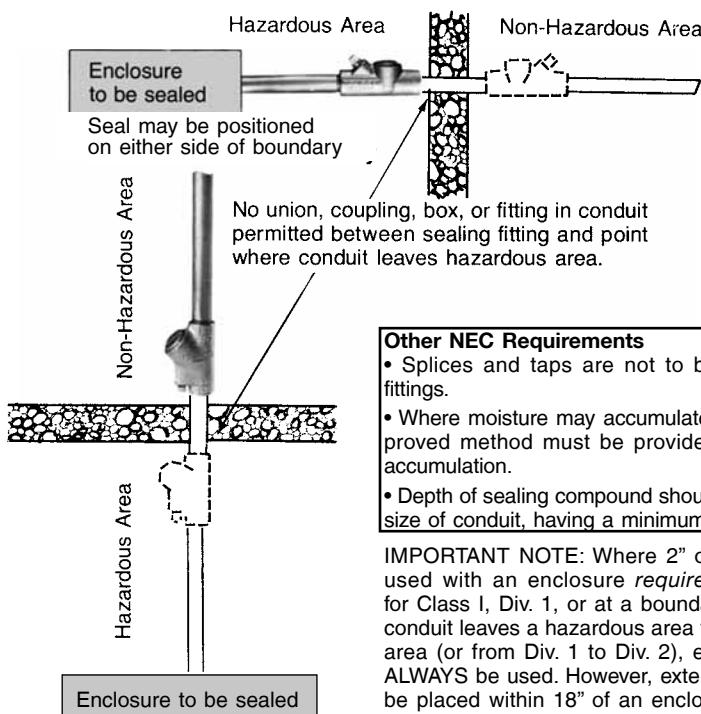
Where 2" or larger conduit enters enclosure, fitting housing terminals, splices or taps, seals are required within 18" or such enclosure.



Class I, Div. 1 and 2

Sealing fittings must be installed at boundary between a hazardous and non-hazardous area.*

* Sealing fitting must also be installed at boundary between a Class I, Div. 1 area and a Class I, Div. 2 area.



Other NEC Requirements

- Splices and taps are not to be used in sealing fittings.
- Where moisture may accumulate in system, an approved method must be provided to remove such accumulation.
- Depth of sealing compound should be equal to trade size of conduit, having a minimum thickness of 5/8".

IMPORTANT NOTE: Where 2" or larger conduit is used with an enclosure *required* to be approved for Class I, Div. 1, or at a boundary where any size conduit leaves a hazardous area to a non-hazardous area (or from Div. 1 to Div. 2), external seals must **ALWAYS** be used. However, external seals need not be placed within 18" of an enclosure containing an arcing device if the product is factory sealed for the specific Class and Group.



Class I, Div. 1 and 2
Groups A,B*,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III

Sealing Fittings: EYS and ESU;

Explosionproof, Dust-Ignitionproof, Raintight

UNILETS® for use with Threaded Metal Conduit

	Size (Inches)	Turning Inches	Radius† (cm)	Kwiko® A Cement Req'd Ozs. (Grams)	Catalog Number	Almag 35* Aluminum
	EYS Vertical Conduit Seals (25% fill)‡					
Female						
1/2"	1.81	(4.5)	2	(56.7)	EYSF-50*	EYSF-50AL
3/4"	2.25	(5.7)	3	(85.1)	EYSF-75*	EYSF-75AL
1"	2.38	(6.0)	5	(141.7)	EYSF-100*	EYSF-100AL
1-1/4"	2.94	(7.5)	11	(311.8)	EYSF-125	
1-1/2"	3.50	(8.9)	19	(538.6)	EYSF-150	
2"	4.13	(10.5)	31	(878.8)	EYSF-200	
2-1/2"	4.75	(12.1)	46	(1304.1)	EYSF-250	
3"	5.63	(14.3)	82	(2324.7)	EYSF-300	
4"	6.50	(16.5)	92	(2608.2)	EYSF-400	
Male/Female (Removable Male Nipple)						
1/2"	1.81	(4.5)	2	(56.7)	EYSM-50*	EYSM-50AL
3/4"	2.25	(5.7)	3	(85.1)	EYSM-75*	EYSM-75AL
1"	2.38	(6.0)	5	(141.7)	EYSM-100*	EYSM-100AL
1/2"—1"						
ESU Vertical and Horizontal Conduit Seals (25% fill)‡						
Female						
1/2"	1.25	(3.2)	4	(113.4)	ESUF-50	
3/4"	1.25	(3.2)	4	(113.4)	ESUF-75	
1"	1.38	(3.5)	5	(141.7)	ESUF-100	
1/2"—1"						
Male/Female (Removable Male Nipple)						
1/2"	1.25	(3.2)	4	(113.4)	ESUM-50	
3/4"	1.25	(3.2)	4	(113.4)	ESUM-75	
1"	1.38	(3.5)	5	(141.7)	ESUM-100	
1/2"—1"						

‡ Per Nec 501-5(c)(6) seals in Class I, Division 1 and 2 must be limited to conductor fill of 25% of cross sectional area of a rigid metal conduit of the same trade size unless approved for higher percentage fill. See 40% fill seals on page I-9.

* U.L. Listed for use with Appleton "Kwiko® A" and Crouse-Hinds "Chico® A" cement.

† Turning radius with cover or plug removed.

**Class I, Div. 1 and 2
Groups A[‡],B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III**

Sealing Fittings for Close Turning Radius: EY; Explosionproof, Dust-Ignitionproof, Raintight

UNILETS® for use with Threaded Metal Conduit

	Size Inches	Turning Radius† Inches (cm)	Kwiko® A Cement Req'd Ozs. (Grams)	Malleable Iron*	Catalog Number
EY Vertical and Horizontal Conduit Seals for Close Turning Radius (25% fill)**					
Female					
1/2—1" 1-1/4—3" 3-1/2—6"					
1/2	1.06 (2.7)	1 (28.4)	EYF-50 [‡]	EYF-50AL [‡]	
3/4	1.19 (3.0)	2 (56.7)	EYF-75 [‡]	EYF-75AL [‡]	
1	1.38 (3.5)	4 (113.4)	EYF-100 [‡]	EYF-100AL [‡]	
1-1/4	1.75 (4.5)	7 (198.4)	EYF-125	EYF-125AL	
1-1/2	2.06 (5.2)	13 (368.5)	EYF-150	EYF-150AL	
2	2.31 (5.9)	22 (623.7)	EYF-200	EYF-200AL	
2-1/2	2.69 (6.8)	36 (1,020.6)	EYF-250	EYF-250AL	
3	3.13 (7.9)	61 (1,729.3)	EYF-300	EYF-300AL	
3-1/2	3.44 (8.7)	89 (2,523.1)	EYF-350	EYF-350AL	
4	3.69 (9.4)	114 (3,231.8)	EYF-400	EYF-400AL	
5	4.69 (11.9)	202 (5,726.6)	EYF-500 [‡]	—	
6	5.38 (13.7)	230 (6,520.4)	EYF-600 [‡]	—	
Male/Female (Removable Male Nipple)					
1/2—1" 1-1/4—3" 3-1/2—6"					
1/2	1.06 (2.7)	1 (28.4)	EYM-50 [‡]	EYM-50AL [‡]	
3/4	1.19 (3.0)	2 (56.7)	EYM-75 [‡]	EYM-75AL [‡]	
1	1.38 (3.5)	4 (113.4)	EYM-100 [‡]	EYM-100AL [‡]	
1-1/4	1.75 (4.5)	7 (198.4)	EYM-125	EYM-125AL	
1-1/2	2.06 (5.2)	13 (368.5)	EYM-150	EYM-150AL	
2	2.31 (5.9)	22 (623.7)	EYM-200	EYM-200AL	
2-1/2	2.69 (6.8)	36 (1,020.6)	EYM-250	EYM-250AL	
3	3.13 (7.9)	61 (1,729.3)	EYM-300	EYM-300AL	
3-1/2	3.44 (8.7)	89 (2,523.1)	EYM-350	EYM-350AL	
4	3.69 (9.4)	114 (3,231.8)	EYM-400	EYM-400AL	
5	4.69 (11.9)	202 (5,726.6)	EYM-500 [‡]	—	
6	5.38 (13.7)	230 (6,520.4)	EYM-600 [‡]	—	

** Per Nec 501(c)(6), seals in Class I, Division 1 and 2 must be limited to conductor fill of 25% of cross sectional area of a rigid metal conduit of the same trade size unless approved for higher percentage fill. See 40% fill seals on page I-9.

Shaded area indicates items which are U.L. Listed for Class I, Groups B,C, and D; Class II, Groups E,F and G; and Class III.

† Indicates items which are U.L. Listed for Class I, Groups A,B,C, and D; Class II, Groups E,F and G; and Class III.

* U.L. Listed for use with Appleton "Kwiko® A" and Crouse-Hinds "Chico® A" cement.

† Turning radius with cover or plug removed.

‡ Not U.L. Listed. CSA Certified only.

Class I, Div. 1 and 2
Groups A[‡],B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III

Sealing Fittings for Close Turning Radius and 40% Fill: EY; Explosionproof, Dust-Ignitionproof, Raintight

UNILETS® for use with Threaded Metal Conduit

Size (Inches)	Turning Radius† Inches (cm)	Kwiko® A Cement Req'd Ozs. (Grams)	Malleable Iron*	Catalog Number
				Almag 35 Aluminum*
EXPANDED FILL EYSEF and EYDEF (40% fill)				
EYSEF 1/2"-4" Vertical and Horizontal Conduit Seals for Close Turning Radius				
Female				
1/2	1.25 (3.18)	2 (56.8)	EYSEF50 [‡]	EYSEF50AL [‡]
3/4	1.38 (3.51)	4 (113.5)	EYSEF75 [‡]	EYSEF75AL [‡]
1	1.75 (4.45)	7 (198.6)	EYSEF100	EYSEF100AL
1-1/4	2.06 (5.23)	13 (368.9)	EYSEF125	EYSEF125AL
1-1/2	2.31 (5.87)	22 (624.3)	EYSEF150	EYSEF150AL
2	2.63 (6.68)	36 (1,021.5)	EYSEF200	EYSEF200AL
2-1/2	3.00 (7.62)	61 (1,730.9)	EYSEF250	EYSEF250AL
3	3.31 (8.41)	89 (2,525.4)	EYSEF300	EYSEF300AL
3-1/2	3.59 (9.12)	114 (3,234.8)	EYSEF350	EYSEF350AL
4	4.22 (10.72)	202 (5,726.6)	EYSEF400	EYSEF400AL
1/2" - 3/4" 1" - 2-1/2" 3" - 4"				
EYDEF 1/2"-4" Vertical Drain Seals for Close Turning Radius				
Female				
1/2	1.91 (4.85)	4 (113.5)	EYDEF50	EYDEF50AL
3/4	2.38 (6.05)	6 (170.3)	EYDEF75	EYDEF75AL
1	1.75 (4.45)	7 (198.6)	EYDEF100	EYDEF100AL
1-1/4	2.06 (5.23)	13 (368.9)	EYDEF125	EYDEF125AL
1-1/2	2.31 (5.87)	22 (624.3)	EYDEF150	EYDEF150AL
2	2.63 (6.68)	36 (1,021.5)	EYDEF200	EYDEF200AL
2-1/2	3.00 (7.62)	61 (1,730.9)	EYDEF250	EYDEF250AL
3	3.31 (8.41)	89 (2,525.4)	EYDEF300	EYDEF300AL
3-1/2	3.59 (9.12)	114 (3,234.8)	EYDEF350	EYDEF350AL
4	4.22 (10.72)	202 (5,726.6)	EYDEF400	EYDEF400AL
1/2" - 3/4" 1" - 2-1/2" 3" - 4"				

Shaded area indicates items which are U.L. Listed for Class I, Groups B,C, and D; Class II, Groups E,F and G; and Class III.

* Indicates items which are U.L. Listed for Class I, Groups A,B,C, and D; Class II, Groups E,F and G; and Class III.

† U.L. Listed for use with Appleton "Kwiko® A" and Crouse-Hinds "Chico® A" cement.

† Turning radius with cover or plug removed.

**Class I, Div. 1 and 2
Groups A[‡],B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III**

EYS Grayloy™-Iron Sealing Fittings: Explosionproof, Dust-Ignitionproof, Raintight

UNILETS® for use with Threaded Metal Conduit

	Size (Inches)	Turning Radius† Inches (cm)	Kwiko® A Cement Req'd Ozs. (Grams)	Catalog Number Grayloy™-Iron*
EYS Vertical and Horizontal Conduit Seals (25% fill)** for Close Turning Radius				
Female				
Female	1/2	1.16 (2.9)	1 (28)	EYS-11[‡]
	3/4	1.25 (3.2)	2 (57)	EYS-21[‡]
	1	1.38 (3.5)	4 (113)	EYS-31[‡]
				
1/2—1"	1-1/4—3"	3-1/2—6"		
	1-1/4	1.75 (4.4)	9 (255)	EYS-4
	1-1/2	2.06 (5.2)	12 (340)	EYS-5
	2	2.31 (5.9)	21 (595)	EYS-6
	2-1/2	2.69 (6.8)	37 (1,049)	EYS-7
	3	3.13 (7.9)	61 (1,729)	EYS-8
	3-1/2	3.44 (8.7)	80 (2,268)	EYS-9
	4	3.69 (9.4)	112 (3,175)	EYS-10
	5	4.69 (11.9)	198 (5,613)	EYS-012
	6	5.38 (13.7)	230 (9,667)	EYS-014
Male				
Male	1/2	1.16 (2.9)	1 (28)	EYS-116[‡]
	3/4	1.25 (3.2)	2 (57)	EYS-216[‡]
	1	1.38 (3.5)	4 (113)	EYS-316[‡]
				
	1-1/4	1.75 (4.4)	9 (255)	EYS-46
	1-1/2	2.06 (5.2)	12 (340)	EYS-56
	2	2.31 (5.9)	21 (595)	EYS-66
	2-1/2	2.69 (6.8)	37 (1,049)	EYS-76
	3	3.13 (7.9)	61 (1,729)	EYS-86
	3-1/2	3.44 (8.7)	80 (2,268)	EYS-96
	4	3.69 (9.4)	112 (3,175)	EYS-106
	5	4.69 (11.9)	198 (5,613)	EYS-0126
	6	5.38 (13.7)	230 (9,667)	EYS-0146
Female/Male EYS				
EYS Grayloy™-Iron Vertical Sealing Fittings (25% fill)**				
Female				
Female	1/2	1.63 (4.14)	1 (28.4)	EYS-1[‡]
	3/4	1.91 (4.85)	2 (56.8)	EYS-2[‡]
	1	2.38 (6.05)	3 (85.1)	EYS-3[‡]
				
Female	Male			
Male/Female (Removable Male Nipple)				
	1/2	1.63 (4.14)	1 (28.4)	EYS-16[‡]
	3/4	1.91 (4.85)	2 (56.8)	EYS-26[‡]
	1	2.38 (6.05)	3 (85.1)	EYS-36[‡]

[‡] Shaded area indicates items which are U.L. Listed for Class I, Groups A,B,C, and D; Class II, Groups E,F and G; and Class III.

* U.L. Listed for use with Appleton "Kwiko® A" and Crouse-Hinds "Chico® A" cement.

† Turning radius with cover or plug removed.

** Per Nec 501(c)(6), seals in Class I, Division 1 and 2 must be limited to conductor fill of 25% of cross sectional area of a rigid metal conduit of the same trade size unless approved for higher percentage fill. See 40% fill seals on page I-9.

Class I, Div. 1 and 2
Groups C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III

EYD Grayloy™-Iron Drain Sealing Fittings:
Explosionproof, Dust-Ignitionproof, Raintight
UNILETS® for use with Threaded Metal Conduit

Size (Inches)	Turning Radius† Inches (cm)	Kwiko® A Cement Req'd Ozs. (Grams)	Catalog Number
EYD Vertical Conduit Drain Seals for Close Turning Radius (25% fill)‡			
Female			
1/2	1.06 (2.7)	1 (28)	EYD-1
3/4	1.19 (3.0)	2 (57)	EYD-2
1	1.38 (3.5)	4 (113)	EYD-3
1-1/4	1.75 (4.4)	9 (255)	EYD-4
1-1/2	2.06 (5.2)	12 (340)	EYD-5
2	2.31 (5.9)	21 (595)	EYD-6
2-1/2	2.69 (6.8)	37 (1,049)	EYD-7
3	3.13 (7.9)	61 (1,729)	EYD-8
3-1/2	3.44 (8.7)	80 (2,268)	EYD-9
4	3.69 (9.4)	112 (3,175)	EYD-10
Male/Female (Removable Male Nipple)			
1/2	1.06 (2.7)	1 (28)	EYD-16
3/4	1.19 (3.0)	2 (57)	EYD-26
1	1.38 (3.5)	4 (113)	EYD-36
1-1/4	1.75 (4.4)	9 (255)	EYD-46
1-1/2	2.06 (5.2)	12 (340)	EYD-56
2	2.31 (5.9)	21 (595)	EYD-66
2-1/2	2.69 (6.8)	37 (1,049)	EYD-76
3	3.13 (7.9)	61 (1,729)	EYD-86
3-1/2	3.44 (8.7)	80 (2,268)	EYD-96
4	3.69 (9.4)	112 (3,175)	EYD-106

‡ Per Nec 501-5(c)(6) seals in Class I, Division 1 and 2 must be limited to conductor fill of 25% of cross sectional area of a rigid metal conduit of the same trade size unless approved for higher percentage fill. See 40% fill seals on page I-9.

* U.L. Listed for use with Appleton "Kwiko® A" and Crouse-Hinds "Chico® A" cement.

† Turning radius with cover or plug removed.

**Class I, Div. 1 and 2
Groups B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III**

Drain Sealing Fittings: EYD; Explosionproof, Dust-Ignitionproof, Raintight

UNILETS® for Use with Threaded Metal Conduit

Size (Inches)	Turning Radius♦ Inches (cm)	Kwiko® A Cement Req'd Ozs. (Grams)	Malleable Iron†	Catalog Number
Almag 35 Aluminum†				
EYDM Vertical Conduit Drain Seals for Close Turning Radius (25% fill)‡				
Male/Female (Removable Male Nipple)				
1/2	1.94 (4.9)	2 (56.7)	EYDM-50	EYDM-50AL
3/4	1.94 (4.9)	2 (56.7)	EYDM-75	EYDM-75AL
1	2.06 (5.2)	3 (85.1)	EYDM-100	EYDM-100AL
1-1/4	1.75 (4.5)	7 (198.4)	EYDM-125	EYDM-125AL
1-1/2	2.06 (5.2)	13 (368.5)	EYDM-150	EYDM-150AL
2	2.31 (5.9)	22 (623.7)	EYDM-200	EYDM-200AL
2-1/2	2.69 (6.8)	36 (1,020.6)	EYDM-250	EYDM-250AL
3	3.13 (7.9)	61 (1,729.3)	EYDM-300	EYDM-300AL
3-1/2	3.44 (8.7)	89 (2,523.1)	EYDM-350	EYDM-350AL
4	3.69 (9.4)	114 (3,231.8)	EYDM-400	EYDM-400AL



‡ Per Nec 501-5(c)(6) seals in Class I, Division 1 and 2 must be limited to conductor fill of 25% of cross sectional area of a rigid metal conduit of the same trade size unless approved for higher percentage fill. See 40% fill seals on page I-9.

Shaded area indicates items which are UL Listed for Class I, Groups B,C and D; Class II, Groups E,F and G; and Class III.

† U.L. Listed for use with Appleton "Kwiko® A" and Crouse-Hinds "Chico® A" cement.

♦ Turning radius with cover or plug removed.



Dimensions:
**EYSF, EYSM, ESUF, ESUM, EYF, EYM, EYSEF,
EYSEM, Sealing Fittings**

Size (In.)	Dimensions in Inches				Dimensions in Centimeters			
	A (Length)	B (Width)	C (Hub CL)	Turning Radius*	A (Length)	B (Width)	C (Hub CL)	Turning Radius*
EYSF 1/2" Thru 4" and EYSM 1/2" Thru 1"								
1/2	3.25	1.13		1.81	8.3	2.9		4.6
3/4	3.63	1.38		2.25	9.2	3.5		5.7
1	4.25	1.75		2.38	10.8	4.5		6.0
1-1/4	5.06	2.00		2.94	12.9	5.1		7.5
1-1/2	5.50	2.50		3.50	14.0	6.4		8.9
2	6.25	2.94		4.13	15.9	7.5		10.5
2-1/2	7.44	3.38		4.75	18.9	8.6		12.1
3	8.50	4.13		5.63	21.6	10.5		14.3
4	8.63	5.13		6.50	21.9	13.0		16.5
ESUF AND ESUM 1/2" Thru 1"								
1/2	3.00	2.94	.69	1.25	7.6	7.5	1.8	3.2
3/4	3.13	2.94	.69	1.25	7.9	7.5	1.8	3.2
1	3.38	3.25	.88	1.38	8.6	8.3	2.2	3.5
EYF AND EYM 1/2" Thru 6"								
1/2	3.50	1.19		1.06	8.9	3.0		2.7
3/4	3.50	1.38		1.19	8.9	3.5		3.0
1	4.25	1.75		1.38	10.8	4.5		3.5
1-1/4	4.94	2.00		1.75	12.5	5.1		4.5
1-1/2	5.50	2.38		2.06	14.0	6.0		5.2
2	6.13	2.88		2.31	15.6	7.3		5.9
2-1/2	7.50	3.38		2.69	19.1	8.6		6.8
3	8.13	4.13		3.13	20.6	10.5		7.9
3-1/2	8.94	4.75		3.44	22.7	12.1		8.7
4	9.38	5.13		3.69	23.8	13.0		9.4
5	10.81	6.25		4.69	27.5	15.9		11.9
6	11.81	7.31		5.38	30.0	18.6		13.7
EYSEF 1/2" Thru 4" and EYDEF 1" Thru 4"								
1/2	3.69	1.50		1.25	9.37	3.81		3.18
3/4	4.31	1.75		1.38	10.95	4.45		3.51
1	5.06	2.19		1.75	12.85	5.56		4.45
1-1/4	5.50	2.44		2.06	13.97	6.20		5.23
1-1/2	6.25	3.00		2.31	15.88	7.62		5.87
2	7.50	3.50		2.63	19.05	8.89		6.68
2-1/2	8.50	4.25		3.00	21.59	10.80		7.62
3	9.19	4.75		3.31	23.34	12.07		8.41
3-1/2	9.75	5.25		3.59	24.77	13.34		9.12
4	11.06	6.50		4.22	28.09	16.51		10.72
EYDEF 1/2" and 3/4"								
1/2	3.69	1.50		1.91	9.37	3.81		4.85
3/4	4.31	1.75		2.38	10.95	4.45		6.05

* Turning radius with cover or plug removed.

Dimensions: EYS, EYD, EYDM Sealing Fittings

Size (In.)	Dimensions in Inches			Dimensions in Centimeters		
	A (Length)	B (Width)	Turning Radius*	A (Length)	B (Width)	Turning Radius*
EYS, Vertical and Horizontal Sealing, Close Turning Radius 1/2" Thru 6"						
1/2	3.69	1.25	1.16	9.4	3.2	2.9
3/4	3.69	1.50	1.25	9.4	3.8	3.2
1	4.31	1.75	1.38	11.0	4.4	3.5
1-1/4	5.06	2.19	1.75	12.9	5.6	4.4
1-1/2	5.50	2.44	2.06	14.0	6.2	5.2
2	6.25	3.00	2.31	15.9	7.6	5.9
2-1/2	7.50	3.50	2.63	19.1	8.9	6.7
3	8.50	4.25	3.31	21.6	10.8	8.4
3-1/2	9.19	4.75	3.41	23.4	12.1	8.7
4	9.75	5.25	3.69	24.8	13.3	9.4
5	11.06	6.50	4.59	28.1	16.5	11.7
6	12.13	7.63	5.34	30.8	19.4	13.6
EYS 1/2" Thru 1" (Grayloy®-Iron, Vertical Sealing)						
1/2	3.28	1.25	1.63	8.33	3.18	4.14
3/4	3.69	1.50	1.91	9.37	3.81	4.85
1	4.31	1.75	2.38	10.95	4.45	6.05
EYD 1/2" Thru 4"						
1/2	3.28	1.50	1.63	8.3	3.8	4.1
3/4	3.69	1.75	1.91	9.4	4.4	4.9
1	4.31	2.19	2.38	11.0	5.6	6.1
1-1/4	5.06	2.19	1.75	12.9	5.6	4.4
1-1/2	5.50	2.44	2.06	14.0	6.2	5.2
2	6.25	3.00	2.31	15.9	7.6	5.9
2-1/2	7.50	3.50	2.63	19.1	8.9	6.7
3	8.50	4.25	3.31	21.6	10.8	8.4
3-1/2	9.19	4.75	3.41	23.4	12.1	8.7
4	9.75	5.25	3.69	24.8	13.3	9.4
EYDM 1/2" Thru 4"						
1/2	3.63	1.38	1.94	9.2	3.5	4.9
3/4	3.63	1.38	1.94	9.2	3.5	4.9
1	4.06	1.56	2.06	10.3	4.0	5.2
1-1/4	4.94	2.00	1.75	12.5	5.1	4.5
1-1/2	5.50	2.38	2.06	14.0	6.0	5.2
2	6.13	2.88	2.31	15.6	7.3	5.9
2-1/2	7.50	3.38	2.69	19.1	8.6	6.8
3	8.13	4.13	3.13	20.6	10.5	7.9
3-1/2	8.94	4.75	3.44	22.7	12.1	8.7
4	9.38	5.13	3.69	23.8	13.0	9.4

* Turning radius with cover or plug removed.

Class I, Div. 1 and 2
Groups A◊, B♦, C, D
Class II, Div. 1 and 2
Groups E, F, G
Class III

Sealing Hubs: Explosionproof, Dust-Ignitionproof

Applications

- Sealing Hubs are used to seal vertical conduit risers at switch gear and motor control centers, sheet metal structures or cast boxes and enclosures.
- Can be used as a male thread enlarger or conduit hub in an ordinary location.

Standard Materials

- Malleable iron

Standard Finishes

- Appleton triplecoat finish
 - ① Zinc electroplate
 - ② Dichromate
 - ③ Epoxy powder coat

Options

- Available with sealing gaskets and locknuts – add suffix **BLSG** to catalog number.
- Sealing hubs, when used with sealing gaskets and locknuts, provide a water and oil-tight connection and are rated Class I, Division 2, Groups A,B,C and D; Class II, Division 2, Group F and G.

Compliances

- UL Standard 886
- 25% fill



Standard Hub

Standard Hub
with Locknut and
Sealing Gasket Option

Catalog Number	Male Hub Size (Inches)	Female Hub Size (Inches)	Approx. Internal Vol. Cubic Inches	Kwiko® A Cement required Oz.	(Grams)
ES10050◊	1	1/2	.74	1	(25.2)
ES10075◊	1	3/4	.76	1	(25.9)
ES150100◊	1-1/2	1	3.10	4	(105.6)
ES200125♦	2	1-1/4	4.69	6	(159.7)
ES200150♦	2	1-1/2	4.69	6	(159.7)
ES250200♦	2-1/2	2	9.38	11	(319.4)
ES400300♦	4	3	33.70	40	(1,147.5)
ES500400♦	5	4	91.23	109	(3,106.4)
ES600500	6	5	143.73	172	(4,894.0)

Catalog Number	A	B	Dimensions (In Inches)	C	D	E
ES10050	1.63	0.88		2.00	13/16	(1.25)
ES10075	1.81	0.88		2.00	13/16	(1.50)
ES150100	2.25	1.38		2.75	13/16	(1.75)
ES200125	2.81	1.75		2.75	13/16	(2.19)
ES200150	2.81	1.75		2.75	13/16	(2.44)
ES250200	3.50	2.06		3.56	1-1/2	(3.00)
ES400300	5.25	3.63		4.75	1-3/4	(4.25)
ES500400	6.63	4.63		6.75	1-7/8	(5.25)
ES600500	7.63	5.75		7.25	1-15/16	(6.50)

*Fiber filler required. See page I-16.

◊ Indicates items in the shaded area which are UL Listed for Class I, Groups A,B,C,D; Class II, Groups E,F,G; and Class III.
 ♦ Indicates items in the shaded area which are UL Listed for Class I, Groups B,C,D; Class II, Groups E,F; and Class III.

Kwiko® A Sealing Cement and Filler

For use in Sealing Fittings. See listing pages for quantities required.



Quantity Ounces	Grams	Volume When Set		Catalog Number
		Cu. In.	Cu. Cm.	
Kwiko® A Sealing Cement Mixing Ratio: 2 parts cement to 1 part water.				
16.00	453.6	23.00	377.0	AC1-A
80.00	2268.0	115.00	1884.9	AC5-A

Kwiko® A TwinPak® Sealing Cements

Each plastic pouch contains: Pre-measured Kwiko® A cement and Pre-measured water (in an inner bag).

Squeeze pouch to break inner water bag and knead mixture thoroughly, then pour. Kwiko® A TwinPak® also includes adequate amount of fiber filler packed separately.



16.25 (Cement)	460.1	25.00	409.7	ACK6F-A*
1.00 (Fiber)	28.4			
36.25 (Cement)	1027.7	55.00	901.3	ACK12F-A**
2.00 (Fiber)	56.7			

* Product No. ACK6F-A includes 5– 3-1/4-ounce cement pouches. Larger quantities available, consult factory.

** Product No. ACK12F-A includes 5– 7-1/4-ounce cement pouches. Larger quantities available, consult factory.

Fiber Filler

Filler is used to make dams to prevent cement from leaking while in fluid state.



0.38	10.8	F038
0.75	21.3	F075
1.00	28.4	F01
2.00	56.7	F02
4.00	113.4	F04
8.00	226.8	F08
16.00	453.6	F1



Kwiko® A Sealing Cement and Fiber Filler Kits

16.00 (Cement)	453.6	23.00	377.0	AC1F01-A
1.00 (Fiber)	28.4			

Approximate amount of fiber filler required per hub (for 25% fill)†

Hub Size (inches)	Quantity Ounces	Quantity Grams	Hub Size (inches)	Quantity Ounces	Quantity Grams	Hub Size (inches)	Quantity Ounces	Quantity Grams
1/2	0.03	0.9	1-1/2	.50	14.2	3-1/2	3.00	85.1
3/4	0.06	1.7	2	1.00	28.4	4	4.50	127.6
1	0.13	3.7	2-1/2	1.50	42.5	5	7.00	198.5
1-1/4	0.25	7.1	3	2.00	56.9	6	10.00	284.1

† For expanded fill sealing fittings (40% fill), double fiber filler required.

Class I, Div. 1 and 2
Groups A,B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III

Flexible Couplings: EXGJH and EXLK; **Explosionproof, Dust-Ignitionproof, Watertight**

UNILETS® for use with Threaded Metal Conduit



EXGJH
Two Removable Male Nipples



EXLK
One Removable Male Nipple, One Removable Union

Size, Inches Flex Length	Dia. Size	Catalog Number EXGJH	Catalog Number EXLK	Size, Inches Flex Length	Dia. Size	Catalog Number EXGJH	Catalog Number EXLK	Size, Inches Flex Length	Dia. Size	Catalog Number EXGJH	Catalog Number EXLK
4	1/2	EXGJH-14	EXLK-14	18	1/2	EXGJH-118	EXLK-118	27	1/2	EXGJH-127	EXLK-127
4	3/4	EXGJH-24	EXLK-24	18	3/4	EXGJH-218	EXLK-218	27	3/4	EXGJH-227	EXLK-227
6	1/2	EXGJH-16	EXLK-16	18	1	EXGJH-318	EXLK-318	27	1	EXGJH-327	EXLK-327
6	3/4	EXGJH-26	EXLK-26	18	1-1/4	EXGJH-418	EXLK-418	27	1-1/4	EXGJH-427	EXLK-427
6	1	EXGJH-36	EXLK-36	18	1-1/2	EXGJH-518	EXLK-518	27	1-1/2	EXGJH-527	EXLK-527
8	1/2	EXGJH-18	EXLK-18	18	2	EXGJH-618	EXLK-618	27	2	EXGJH-627	EXLK-627
8	3/4	EXGJH-28	EXLK-28	18	2-1/2	EXGJH-718		27	2-1/2	EXGJH-727	
8	1	EXGJH-38	EXLK-38	18	3	EXGJH-818		27	3	EXGJH-827	
10	1/2	EXGJH-110	EXLK-110	18	4	EXGJH-1018		27	4	EXGJH-1027	
10	3/4	EXGJH-210	EXLK-210	21	1/2	EXGJH-121	EXLK-121	30	1/2	EXGJH-130	EXLK-130
10	1	EXGJH-310	EXLK-310	21	3/4	EXGJH-221	EXLK-221	30	3/4	EXGJH-230	EXLK-230
12	1/2	EXGJH-112	EXLK-112	21	1	EXGJH-321	EXLK-321	30	1	EXGJH-330	EXLK-330
12	3/4	EXGJH-212	EXLK-212	21	1-1/4	EXGJH-421	EXLK-421	30	1-1/4	EXGJH-430	EXLK-430
12	1	EXGJH-312	EXLK-312	21	1-1/2	EXGJH-521	EXLK-521	30	1-1/2	EXGJH-530	EXLK-530
12	1-1/4	EXGJH-412	EXLK-412	21	2	EXGJH-621	EXLK-621	30	2	EXGJH-630	EXLK-630
12	1-1/2	EXGJH-512	EXLK-512	21	2-1/2	EXGJH-721		30	2-1/2	EXGJH-730	
12	2	EXGJH-612	EXLK-612	21	3	EXGJH-821		30	3	EXGJH-830	
12	2-1/2	EXGJH-712		21	4	EXGJH-1021		30	4	EXGJH-1030	
12	3	EXGJH-812		24	1/2	EXGJH-124	EXLK-124	33	1/2	EXGJH-133	EXLK-133
12	4	EXGJH-1012		24	3/4	EXGJH-224	EXLK-224	33	3/4	EXGJH-233	EXLK-233
15	1/2	EXGJH-115	EXLK-115	24	1	EXGJH-324	EXLK-324	33	1	EXGJH-333	EXLK-333
15	3/4	EXGJH-215	EXLK-215	24	1-1/4	EXGJH-424	EXLK-424	33	1-1/4	EXGJH-433	EXLK-433
15	1	EXGJH-315	EXLK-315	24	1-1/2	EXGJH-524	EXLK-524	33	1-1/2	EXGJH-533	EXLK-533
15	1-1/4	EXGJH-415	EXLK-415	24	2	EXGJH-624	EXLK-624	33	2	EXGJH-633	EXLK-633
15	1-1/2	EXGJH-515	EXLK-515	24	2-1/2	EXGJH-724		33	2-1/2	EXGJH-733	
15	2	EXGJH-615	EXLK-615	24	3	EXGJH-824		33	3	EXGJH-833	
15	2-1/2	EXGJH-715		24	4	EXGJH-1024		33	4	EXGJH-1033	
15	3	EXGJH-815						36	1/2	EXGJH-136	EXLK-136
15	4	EXGJH-1015						36	3/4	EXGJH-236	EXLK-236
								36	1	EXGJH-336	EXLK-336
								36	1-1/4	EXGJH-436	EXLK-436
								36	1-1/2	EXGJH-536	EXLK-536
								36	2	EXGJH-636	EXLK-636
								36	2-1/2	EXGJH-736	
								36	3	EXGJH-836	
								36	4	EXGJH-1036	

1/2" thru 2" brass alloy is standard.

1/2" thru 2" available in stainless steel. Add suffix **-SS**.

2-1/2" thru 4" stainless steel is standard.

1/2" thru 1" stainless steel nipple. Add suffix **-NS**.

NOTE: Unions are not available in stainless steel.

Shaded area (1/2" and 3/4" sizes) indicates items suitable for Class I, Groups A and B as well as Class I, Groups C,D; Class II, Groups E,F,G; and Class III.

1/2" and 3/4" Sizes:

Suitable for Class I, Groups A,B,C and D; Class II, Groups E,F and G, and Class III.

Custom lengths available—consult factory.

1" Size:

Suitable for Class I, Groups C and D; Class II, Groups E,F and G, and Class III.

1-1/4" thru 4" Sizes:

Suitable for Class I, Group D; Class II, Groups E, F and G, and Class III.

Dimensions: EXGJH and EXLK Flexible Couplings

EXGJH and EXLK Dimensions Dimensions in Inches

Coupling Size	A	B	C	D	E	Bending Radius*
1/2	2.06	1.38	3.00	1.41	1.47	10.00
3/4	2.25	1.38	3.25	1.75	1.75	12.00
1	1.69	1.75	3.63	2.06	2.00	14.00
1-1/4	3.00	2.03	4.38	2.63	2.81	16.00
1-1/2	3.38	2.19	4.56	3.13	3.06	16.00
2	3.94	2.44	4.94	3.88	3.72	18.00
2-1/2	4.00	2.63	6.25	4.50	4.88	15.00
3	4.03	2.63	6.25	5.03	5.38	23.00
4	4.09	2.63	6.38	6.63	6.44	48.00

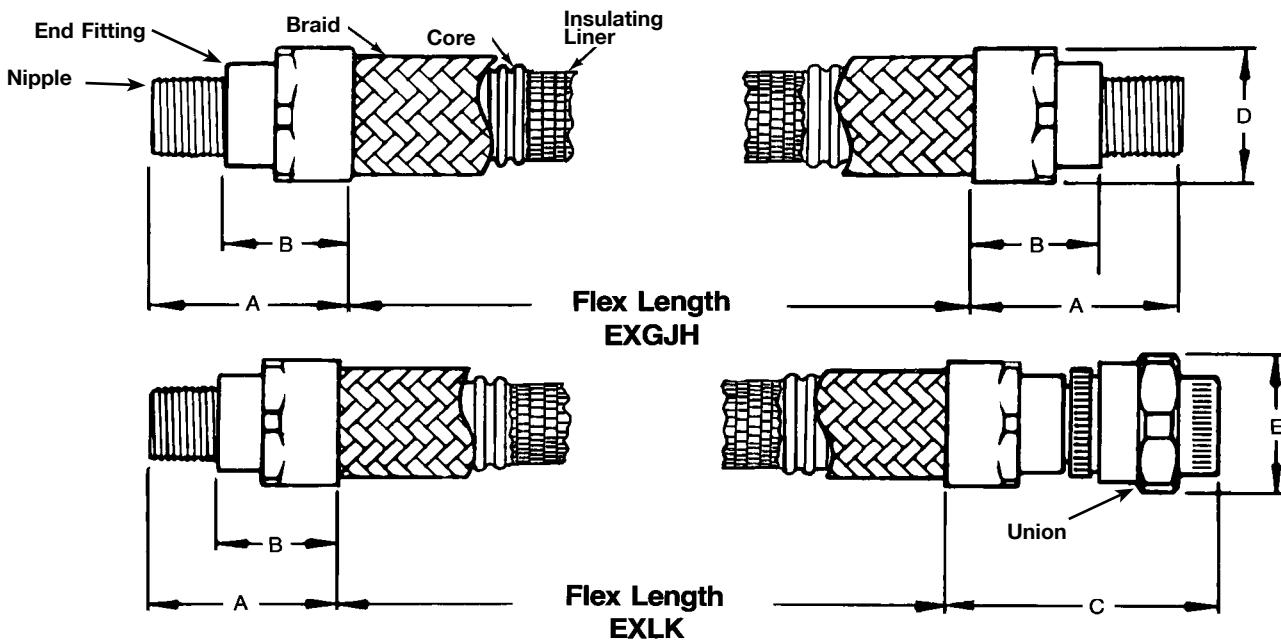
Dimensions in Millimeters

1/2	52.4	34.9	76.2	35.7	37.3	25.4
3/4	57.2	34.9	82.6	44.5	44.5	30.5
1	68.3	44.5	92.1	52.4	50.8	35.6
1-1/4	76.2	51.6	111.1	66.7	71.4	35.6
1-1/2	85.7	55.6	115.9	79.4	77.8	40.6
2	100.0	61.9	125.4	98.4	94.5	40.6
2-1/2	101.6	66.7	158.8	114.3	123.8	38.1
3	102.4	66.7	158.8	127.8	136.5	48.3
4	104.0	66.7	161.9	168.3	163.5	96.5

*Bending Radius shown is minimum recommended.

Fraction/Decimal Equivalents (Inches)

Fraction	Decimal
1/16	0.06
1/8	0.13
3/16	0.19
1/4	0.25
5/16	0.31
3/8	0.38
7/16	0.44
1/2	0.50
9/16	0.56
5/8	0.63
11/16	0.69
3/4	0.75
13/16	0.81
7/8	0.88
15/16	0.94
1	1.00



Class I, Div. 1 and 2
Groups A◊,B◆,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III

PLG Close-Up Plugs and BR Reducers: **Explosionproof, Dust-Ignitionproof**

UNILETS® for Use with Threaded Metal Conduit.

Size (Inches) NPT Threads	Catalog Number	
	Steel (1/2" to 1") and Malleable (1-1/4" to 6")	Aluminum (1/2" to 4")
PLG - Close-Up Plugs		
Recessed Head		
1/2	PLG-50R◊	PLG-50RA◊
3/4	PLG-75R◊	PLG-75RA◊
1	PLG-100R◊	PLG-100RA◊
1-1/4	PLG-125◆	PLG-125A◆
1-1/2	PLG-150◆	PLG-150A◆
2	PLG-200◆	PLG-200A◆
2-1/2	PLG-250◆	PLG-250A◆
3	PLG-300◆	PLG-300A◆
4	PLG-400◆	PLG-400A◆
Square Head		
1/2	PLG-50S◊	
3/4	PLG-75S◊	
1	PLG-100S◊	
1-1/4	PLG-125S◆	
1-1/2	PLG-150S◆	
2	PLG-200S◆	
2-1/2	PLG-250S◆	
3	PLG-300S◆	
3-1/2	PLG-350S◆	
4	PLG-400S◆	
Bar Head (Cast Iron)		
5	PLG-500B	
6	PLG-600B	

BR - Threaded Bell Reducing Couplings			
Large Hub Size (Inches)	Small Hub Size (Inches)	Malleable	Catalog Number
			Aluminum
3/4	1/2	BR75-50◊	BR75-50A◊
1	1/2	BR100-50◊	BR100-50A◊
1	3/4	BR100-75◊	BR100-75A◊
1	1	BR125-100◆	BR125-100A
1-1/4	3/4	BR125-75◆	BR125-75A
1-1/2	1	BR150-100◆	BR150-100A
1-1/2	3/4	BR150-75◆	BR150-75A
1-1/2	1-1/4	BR150-125◆	BR150-125A
2	3/4	BR200-75◆	BR200-75A
2	1	BR200-100◆	BR200-100A
2	1-1/4	BR200-125◆	BR200-125A
2	1-1/2	BR200-150◆	BR200-150A
2-1/2	1-1/2	BR250-150◆	BR250-150A
3	2	BR300-200◆	BR300-200A
3-1/2	2-1/2	BR350-250◆	BR350-250A
4	3	BR400-300◆	BR400-300A
5	4	BR500-400	BR500-400A

◊ Indicates items in the shaded area which are UL Listed for Class I, Groups A,B,C and D; Class II, Groups E,F and G; and Class III.

◆ Indicates items in the shaded area which are UL Listed for Class I, Groups B,C and D; Class II, Groups E,F and G; and Class III.

**Class I, Div. 1 and 2
Groups A,B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III**

45° and 90° Elbows: Explosionproof, Dust-Ignitionproof

UNILETS® for use with Threaded Metal Conduit.

NPT Threads	Size Inches	Dimensions (A) Inches (mm)	Catalog Number Malleable Iron	Aluminum
45° Female Elbows				
1/2	1.19	(30.2)	ELF45-50	ELF45-50-A
3/4	1.31	(33.3)	ELF45-75	ELF45-75-A
1	1.56	(39.7)	ELF45-100	
1-1/4	1.69	(42.9)	ELF45-125	
1-1/2	2.00	(50.8)	ELF45-150	ELF45-150-A
2	2.25	(57.2)	ELF45-200	
90° Female Elbows				
1/2	1.50	(38.1)	ELF90-50	ELF90-50-A
3/4	1.69	(42.9)	ELF90-75	ELF90-75-A
1	1.81	(46.0)	ELF90-100	ELF90-100-A
1-1/4	2.06	(52.4)	ELF90-125	ELF90-125-A
90° Male and Female Elbows				
1/2	1.50	(38.1)	ELMF90-50	ELMF90-50-A
3/4	1.69	(42.9)	ELMF90-75	ELMF90-75-A
1	1.81	(46.0)	ELMF90-100	ELMF90-100-A
1-1/4	2.06	(52.4)	ELMF90-125	
90° Male Elbows				
1/2	1.50	(38.1)	ELM90-50	ELM90-50-A
3/4	1.69	(42.9)	ELM90-75	ELM90-75-A
1	1.88	(47.6)	ELM90-100	
Flexible/Swivel Elbows (Full 360°)				
Class I, Group D; Class II, Groups E,F,G; and Class III.				
1/2	3.75	(95.3)	UNAF50	
3/4	4.38	(111.1)	UNAF75	
1	5.00	(127.0)	UNAF100	

Shaded area indicates items suitable for Class I, Groups A and B in addition to Class I, Groups C,D; Class II, Groups E,F,G; and Class III.

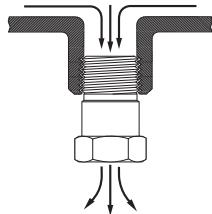
Class I, Div. 1 and 2
Groups B,C,D
Class II, Div. 1 and 2
Groups E,F,G
Class III

Drain, Breather, Universal Drain and Breather: Explosionproof, Dust-Ignitionproof, Thread/Joint Lubricants

Type	Size	Catalog Number
NEMA 3R Universal Drain and Breather For high performance water drainage and continuous ventilation. Stainless Steel.	1/2"	ECDB50HP
NEMA 4X Breather For continuous ventilation. Stainless Steel.	1/2"	BRTB4X
NEMA 4X Drain For automatic water drainage. Stainless Steel.	1/2"	ECD50B4X
Group B Universal Drain and Breather Raintight. For automatic water drainage and continuous ventilation. Stainless Steel.	3/8" 1/2"	ECDB38B ECDB50B
Groups C & D Universal Drain and Breather For automatic water drainage and continuous ventilation. Stainless Steel.	3/8"	ECDB38
Non-Hazardous Location Drain* Aluminum. For steel add suffix - S.	3/8" 1/2" 3/4"	CRN38 CRN50 CRN75

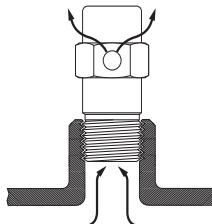
DRAIN FITTINGS:

Generally installed at bottom of enclosure housing to drain moisture caused by condensation.



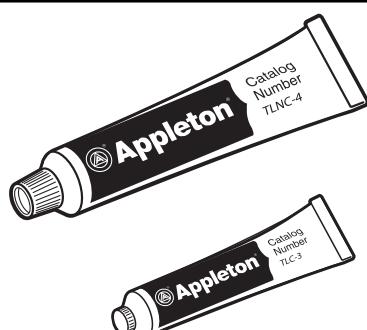
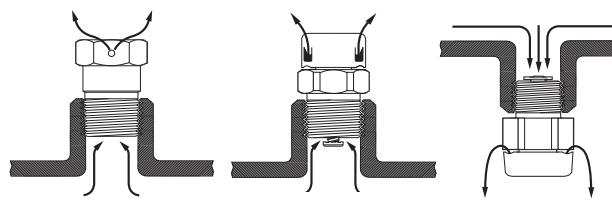
BREATHER FITTINGS:

Generally installed at top of enclosure housing to minimize condensation.



UNIVERSAL DRAIN-BREATHER FITTINGS:

Generally installed at top and/or bottom of enclosure housing. The features of a drain fitting and a breather fitting are combined into one fitting.



Type - Thread/Joint Lubricants	Size [†]	Catalog Number
--------------------------------	-------------------	----------------

TLNC—Non Conductive

Effective and stable at temperatures from 0°F to 250°F (18°C to 121°C). Petroleum based lubricant.

4 oz.

TLNC-4

TLC—Conductive, High-Temperature

Effective and stable at temperatures from -100°F to 750°F (-38°C to +399°C). Homogeneous metallic powder in a hydrocarbon agent. Supports ground continuity.

3 oz.

TLC-3

Thread/joint lubricants prevent seizing and galling and reduce wear and breakage of mating parts. These lubricants have excellent qualities that inhibit corrosion and retard galvanic action on dissimilar metals.

Shaded area indicates items suitable for Class I, Group B, Groups C and D; Class II, Groups E, F and G; and Class III.

*Also suitable for Class I, Div. 2 per NEC 501.10(B).

Liquidtight Strain Relief Cord and Cable Connectors and Wire Mesh Strain Relief

Aluminum and Steel, for use with Flexible Power or Control Cable.

Applications

Aluminum and Steel CG Series:

- Provide a liquidtight and strain relief termination for flexible type neoprene, hypalon and PVC jacketed power or control cord and cable.
- For use in wet or dry locations sealing electrical connections against dust and dirt, oil, water or other atmosphere containing moisture.

Wire Mesh Strain Relief:

- For use with cord and cable subjected to flexure, vibration, motion, or strain. Cap on standard CG Series cable connector is replaced with cap with woven wire mesh strain relief.

Features

Aluminum and Steel CG Series:

- Available in straight or 90° type, aluminum or steel construction to meet the requirements of rugged service on all types of equipment.
- Identification label clearly states the catalog number and minimum-maximum cable diameter range for which the connector is designed.
- Elastomeric sealing gland firmly and safely grips cable jacket, providing strain relief and protecting internal wiring connections against external tension on cable or cord.
- Steel or Teflon* washer reduces friction between gland and connector cap; provides even pressure distribution and eliminates leakage resulting from gland distortion.
- Large aluminum connectors 1-1/2" thru 4" and all steel connectors are constructed with hex head cap.

Wire Mesh Strain Relief:

- Stainless steel wire mesh prevents pull-out of cord and cable.
- Wire mesh strain reliefs for use with aluminum cord grips have knurled cap.
- Wire mesh strain reliefs for use with steel cord grips have hex cap.

Standard Materials

- CG Aluminum connectors consist of aluminum body and cap of copper-free aluminum (4/10 or 1% copper or less). Sealing gland is an elastomer, and washer is steel or Teflon*, 90°

Aluminum



Straight



90°

Steel

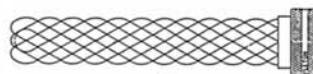


Straight



90°

Aluminum



connectors have cast aluminum body.

- CG Steel connectors sizes 1/4 thru 2" have machined steel body and cap. Sealing gland is and elastomer and washer is steel or Teflon.*

Wire Mesh Strain Relief:

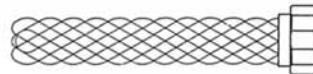
- Copper free aluminum (4/10 or 1% copper or less) cap with stainless steel wire mesh strain relief.
- Machined steel cap with zinc electroplate finish and stainless steel wire mesh strain relief.

Sizes

Aluminum and Steel CG Series

- CG Series in aluminum construction is available in straight type from 1/4" thru 4", 90° type from 3/8" thru 1-1/4".

Steel



- CG Series in steel construction is available in straight type from 1/4" thru 2" and 90° type from 3/8" thru 1-1/4".

Wire Mesh Strain Relief:

- 3/8" thru 1-1/4".

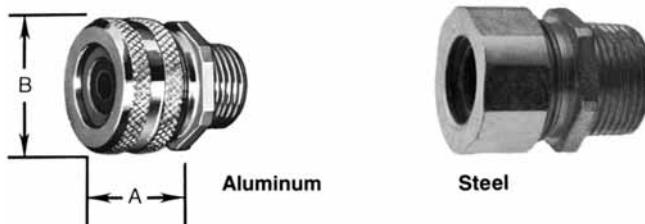
Compliances

- UL Listed, File No. E14817.
 - Suitable for classified location use in Class I, Div. 2 areas. See listing page for detailed hazardous area usage information.
 - NEMA 3R (Rain tight)
- * Teflon is a registered trademark of E.I. DuPont de Nemours & Co.

Class I, Div. 2
Class II, Div. 1 and 2
Class III
NEC 501-4(b), 502-4(a)(2),
503-3(a)

Liquidtight Strain Relief Cord and Cable Connectors: Straight

For use in Wet or Dry Locations



For 90° Connectors see page I-24

Straight Connectors						Straight Connectors						
Catalog Numbers		Cable Range (Inches)	Dimensions (In.)		Aluminum	Steel	Cable Range (Inches)	Dimensions (In.)				
Aluminum	Steel		A	B				A	B			
1/4 Inch Hubs												
CG-0625	CG-0625S	.060 - .156	7/8	3/4			CG-75125	CG-75125S	.750 - .875	1-1/16	1-3/4	
CG-1525	CG-1525S	.156 - .250	7/8	3/4			CG-87125	CG-87125S	.875 - 1.000	1-1/16	1-3/4	
3/8 Inch Hubs												
CG-1238	CG-1238S	.125 - .187	13/16	15/16			CG-100125	CG-100125S	1.000 - 1.125	1-1/16	2-1/8	
CG-1838	CG-1838S	.187 - .312	13/16	15/16			CG-112125	CG-112125S	1.125 - 1.250	1-1/16	2-1/8	
CG-3138	CG-3138S	.312 - .437	13/16	15/16			CG-125125*	CG-125125S*	1.250 - 1.375	1-1/16	2-1/8	
1/2 Inch Hubs												
CG-1250	CG-1250S	.125 - .187	13/16	15/16			CG-137125*	CG-137125S*	1.375 - 1.500	1-1/16	2-1/8	
CG-1850	CG-1850S	.187 - .312	13/16	15/16			1-1/4 Inch Hubs					
CG-3150	CG-3150S	.312 - .437	13/16	15/16			CG-115150	CG-115150S	1.156 - 1.312	1-15/16	2-3/16	
CG-3750	CG-3750S	.375 - .500	13/16	1-1/4			CG-128150	CG-128150S	1.281 - 1.531	2-5/8	2-9/16	
CG-5050	CG-5050S	.500 - .625	13/16	1-1/4			1-1/2 Inch Hubs					
CG-6250*	CG-6250S*	.625 - .750	13/16	1-1/4			CG-153200	CG-153200S	1.531 - 1.780	2-7/16	3	
3/4 Inch Hubs												
CG-1275	CG-1275S	.125 - .250	7/8	1-1/4			CG-165200	—	1.650 - 2.000	2-7/16	3-3/16	
CG-2575	CG-2575S	.250 - .375	7/8	1-1/4			2 Inch Hubs					
CG-3775	CG-3775S	.375 - .500	7/8	1-1/4			CG-200250	—	2.000 - 2.343	3-1/16	3-7/16	
CG-5075	CG-5075S	.500 - .625	7/8	1-1/4			CG-225250	—	2.250 - 2.500	3-1/16	3-11/16	
CG-6275	CG-6275S	.625 - .750	7/8	1-3/6			3 Inch Hubs					
CG-7575*	CG-7575S*	.750 - .875	7/8	1-3/8			CG-250300	—	2.500 - 2.843	3-1/16	4-1/16	
1 Inch Hubs												
CG-37100	CG-37100S	.375 - .500	15/16	1-3/8			CG-268300	—	2.687 - 3.062	3-1/4	4-1/2	
CG-50100	CG-50100S	.500 - .625	15/16	1-3/8			3-1/2 Inch Hubs					
CG-62100	CG-62100S	.625 - .750	15/16	1-3/8			CG-300350	—	3.000 - 3.390	3-1/4	4-3/4	
CG-75100	CG-75100S	.750 - .875	15/16	1-3/4			CG-328350	—	3.281 - 3.515	3-1/4	5	
CG-87100	CG-87100S	.875 - 1.000	15/16	1-3/4			4 Inch Hubs					
CG-100100*	CG-100100S*	1.000 - 1.125	15/16	1-3/4			CG-350400	—	3.500 - 3.843	3-1/4	5-1/4	
							CG-375400	—	3.750 - 4.000	3-1/4	5-1/2	

If locknuts are required, use BL type locknuts: Catalog Section CF

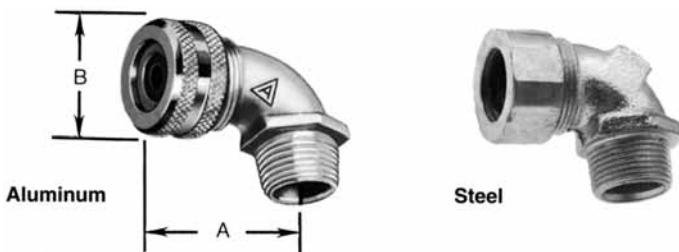
* Remove sufficient outer covering of cord or cable to pass conductors through connector body.

For replacement glands for CG and CG90 connectors, see Catalog Section CC, Page 5.

Class I, Div. 2
Class II, Div. 1 and 2
Class III
NEC 501-4(b), 502-4(a)(2),
503-3(a)

Liquidtight Strain Relief Cord and Cable Connectors: 90°

For use in Wet or Dry Locations



For Straight Connectors see page I-23

90° Connectors			
Catalog Numbers		Cable Range (Inches)	Dimensions (In.)
Aluminum	Steel		A B
3/8 Inch Hubs			
CG90-1238	CG90-1238S	.125 - .187	1-5/8 1-15/16
CG90-1838	CG90-1838S	.187 - .312	1-5/8 1-15/16
CG90-3138*	CG90-3138S*	.312 - .437	1-5/8 1-15/16
1/2 Inch Hubs			
CG90-1250	CG90-1250S	.125 - .250	1-5/8 1-1/4
CG90-2550	CG90-2550S	.250 - .375	1-5/8 1-1/4
CG90-3750	CG90-3750S	.375 - .500	1-5/8 1-1/4
CG90-5050*	CG90-5050S*	.500 - .625	1-1/2 1-1/4
CG90-6250*	CG90-6250S*	.625 - .750	1-1/2 1-1/4
3/4 Inch Hubs			
CG90-2575	CG90-2575S	.250 - .375	1-3/4 1-3/8
CG90-3775	CG90-3775S	.375 - .500	1-3/4 1-3/8
CG90-5075	CG90-5075S	.500 - .625	1-3/4 1-3/8
CG90-6275*	CG90-6275S*	.625 - .750	1-5/8 1-3/8
CG90-7575*	CG90-7575S*	.750 - .875	1-5/8 1-3/8

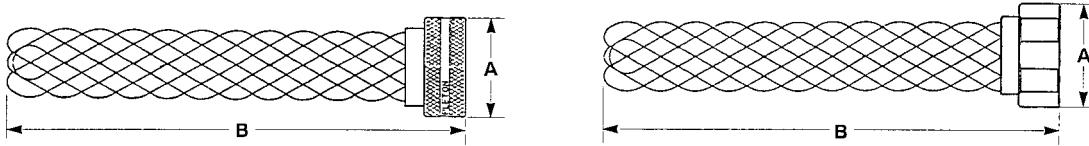
90° Connectors			
Catalog Numbers		Cable Range (Inches)	Dimensions (In.)
Aluminum	Steel		A B
1 Inch Hubs			
CG90-62100	CG90-62100S	.625 - .750	2-3/16 1-3/4
CG90-75100	CG90-75100S	.750 - .875	2-3/16 1-3/4
CG90-87100*	CG90-87100S*	.875 - 1.000	2-3/16 1-3/4
CG90-100100*	CG90-100100S*	1.000 - 1.125	2-3/16 1-3/4
1-1/4 Inch Hubs			
CG90-75125	CG90-75125S	.750 - .875	2-9/16 2-1/8
CG90-87125	CG90-87125S	.875 - 1.000	2-9/16 2-1/8
CG90-100125	CG90-100125S	1.000 - 1.125	2-9/16 2-1/8
CG90-112125*	CG90-112125S*	1.125 - 1.250	2-7/16 2-1/8
CG90-125125*	CG90-125125S*	1.250 - 1.375	2-7/16 2-1/8
CG90-137125*	CG90-137125S*	1.375 - 1.500	2-7/16 2-1/8

If locknuts are required, use BL type locknuts: Section CF

* Remove sufficient outer covering of cord or cable to pass conductors through connector body.

For replacement glands for CG and CG90 connectors, see Catalog Section CC, Page 5.

Wire Mesh Strain Relief for Use with Aluminum and Steel Cord Connectors



Aluminum

Steel

For Aluminum Cord Connectors CG-Straight	Use Catalog Number CG-90	For Steel Cord Connectors CG-Straight	Use Catalog Number CG-90	Dimensions (Inches) A	Dimensions (Inches) B
For Connectors with 3/8 Inch Hubs					
CG-1238	CG90-1238	CG-SR1	CG-1238S	CG90-1238S	CG-SR1S
CG-1838	CG90-1838	CG-SR2	CG-1838S	CG90-1838S	CG-SR2S
CG-3138	CG90-3138	CG-SR3	CG-3138S	CG90-3138S	CG-SR3S
For Connectors with 1/2 Inch Hubs					
CG-1250	—	CG-SR1	CG-1250S	—	CG-SR1S
—	CG90-1250	CG-SR4	—	CG90-1250S	CG-SR4S
CG-1850	—	CG-SR2	CG-1850S	—	CG-SR2S
—	CG90-2550	CG-SR5	—	CG90-2550S	CG-SR5S
CG-3150	—	CG-SR3	CG-3150S	—	CG-SR3S
CG-3750	CG90-3750	CG-SR6	CG-3750S	CG90-3750S	CG-SR6S
CG-5050	CG90-5050	CG-SR7	CG-5050S	CG90-5050S	CG-SR7S
CG-6250	CG90-6250	CG-SR8	CG-6250S	CG90-6250S	CG-SR8S
For Connectors with 3/4 Inch Hubs					
CG-1275	—	CG-SR4	CG-1275S	—	CG-SR4S
CG-2575	—	CG-SR5	CG-2575S	—	CG-SR5S
—	CG90-2575	CG-SR9	—	CG90-2575S	CG-SR9S
CG-3775	—	CG-SR6	CG-3775S	—	CG-SR6S
—	CG90-3775	CG-SR10	—	CG90-3775S	CG-SR10S
CG-5075	—	CG-SR7	CG-5075S	—	CG-SR7S
—	CG90-5075	CG-SR11	—	CG90-5075S	CG-SR11S
CG-6275	CG90-6275	CG-SR12	CG-6275S	CG90-6275S	CG-SR12S
CG-7575	CG90-7575	CG-SR13	CG-7575S	CG90-7575S	CG-SR13S
For Connectors with 1 Inch Hubs					
CG-37100	—	CG-SR10	CG-37100S	—	CG-SR10S
CG-50100	—	CG-SR11	CG-50100S	—	CG-SR11S
CG-62100	—	CG-SR12	CG-65100S	—	CG-SR12S
—	CG90-62100	CG-SR14	—	CG90-62100S	CG-SR14S
CG-75100	CG90-75100	CG-SR15	CG-75100S	CG90-75100S	CG-SR15S
CG-87100	CG90-87100	CG-SR16	CG-87100S	CG90-87100S	CG-SR16S
CG-100100	CG90-100100	CG-SR17	CG-100100S	CG90-100100S	CG-SR17S
For Connectors with 1-1/4 Inch Hubs					
CG-75125	—	CG-SR15	CG-75125S	—	CG-SR15S
—	CG90-75125	CG-SR18	—	CG90-75125S	CG-SR18S
CG-87125	—	CG-SR16	CG-87125S	—	CG-SR16S
—	CG90-87125	CG-SR19	—	CG90-87125S	CG-SR19S
CG-100125	CG90-100125	CG-SR20	CG-100125S	CG90-100125S	CG-SR20S
CG-112125	CG90-112125	CG-SR21	CG-112125S	CG90-112125S	CG-SR21S
CG-125125	CG90-125125	CG-SR22	CG-125125S	CG90-125125S	CG-SR22S
CG-137125	CG90-137125	CG-SR23	CG-137125S	CG90-137125S	CG-SR23S

Class I, Div. 2,
Groups A,B,C,D⁽¹⁾
Class I, Zone 1&2, AExe II
NEMA 4X, IP66

TMC Connectors For Jacketed and Non-Jacketed Metal Clad Cable

Applications

- TMC connectors are designed for use with the following cables: MC/MCHL
 - Corrugated Interlocked Aluminium/Steel Armor and Continuously Welded Armor Cables, e.g. TECK or CLX.
- TMC connectors provide a means for terminating jacketed type MC cable, forming a mechanical watertight connection and providing ground continuity for cable armor.
- For Class I hazardous locations
 - See TMCX.
- Watertight-NEMA Type 4.

Features

- Integral 'O' ring face seal providing – 4X & IP66
- Independent sealing and armor clamping
- True 360° grounding
- Superior pull out prevention
- Compact slim profile
- Reduced installation time (no disassembly required)
- Widest Cable acceptance Range
- Re-usable design
- Additional Integral Deluge proof seal

for protection in extreme offshore and onshore environments

- Metric option available

Standard Materials

- Bodies, Sleeve and gland nut are copper-free aluminum, nickel plated brass, stainless steel.
- Grounding spring is stainless steel.
- Bushing is LSF-TPE (halogen-free).
- Stop and slip washers are nylon.
- O-ring is Viton.

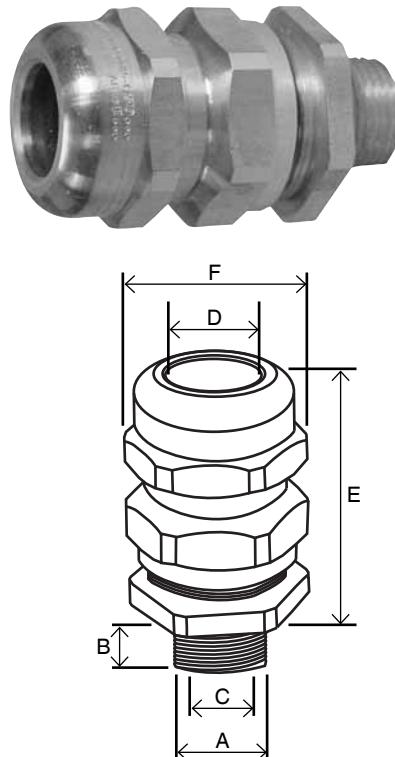
Size Ranges

- Trade sizes 1/2" thru 4".
- Cable Jacket Diameter Range: 0.354" thru 4.220".
- Cable Armor Diameter Range: 0.342" thru 4.020".

Compliances

- UL Standard 514B, 886
- CSA Standard C22.2 No 18, 174
- IEC60079
- UL Listing File: E323519 (1/2" - 3-1/2")
- UL Listing File: E81737 (4")
- CSA Certificate No: 1129339
- NEMA 3, 4 & 4X and IP66

(1) Where explosion proof enclosures are being used the TMC must be installed in conjunction with an approved pouring or compound sealing fitting. In Division 2 areas the TMC can be fitted directly to an enclosure which has no source of ignition in accordance with NEC/CEC requirements.



Order Reference			Entry Thread 'A'	Min Thread Length 'B'	Cable Armor Diameter 'C'				Cable Jacket Diameter 'D'		Nominal Assembly Length 'E'	Envelope Diameter 'F'	
Aluminum	NP Brass	Stainless Steel*			Min	Max	Min	Max	Min	Max			
TMC050SA	TMC050SNB	TMC050SSS	NPT	1/2"	0.59	-	-	0.342	0.503	0.354	0.547	2.20	1.31
TMC050A	TMC050NB	TMC050SS		1/2"	0.59	-	-	0.510	0.669	0.550	0.787	2.20	1.57
TMC050LA TMC075A	TMC075NB	TMC075SS		1/2" 3/4"	0.59 0.59	0.591	0.756	0.756	0.917	0.669	1.035	2.20	1.79
TMC075LA TMC100A	TMC100NB	TMC100SS		3/4" 1"	0.63 0.63	0.825	0.969	0.969	1.150	0.910	1.268	2.24	2.18
TMC100LA TMC125A	TMC125NB	TMC125SS		1" 1-1/4"	0.63 0.63	1.083	1.228	1.228	1.386	1.161	1.504	2.24	2.40
TMC125LA TMC150A	TMC150NB	TMC150SS		1-1/4" 1-1/2"	0.63 0.63	1.320	1.461	1.461	1.618	1.402	1.736	2.37	2.62
TMC150LA TMC200SA	TMC200SNB	TMC200SSS		1-1/2" 2"	0.63 0.63	1.508	1.677	1.677	1.854	1.579	2.008	2.58	3.06
TMC150XLA TMC200A	TMC200NB	TMC200SS		1-1/2" 2"	0.63 0.63	1.772	1.933	1.933	2.087	1.858	2.205	2.49	3.28
TMC200LA TMC250SA	TMC250SNB	TMC250SSS		2" 2-1/2"	0.90 0.90	2.052	2.161	2.161	2.320	2.079	2.441	2.50	3.49
TMC200XLA TMC250A	TMC250NB	TMC250SS		2" 2-1/2"	0.90 0.90	2.247	2.406	2.406	2.545	2.327	2.677	2.52	3.71
TMC300A	TMC300NB	TMC300SS		3"	0.98	2.543	2.776	2.776	2.965	2.622	3.126	3.57	4.80
TMC350A	TMC350NB	TMC350SS		3-1/2"	1.437	2.913	3.291	3.291	3.485	2.992	3.827	4.61	5.82
TMC402400	-	-		4"	1.437	-	-	3.500	4.020	3.700	4.220	7.66	5.84

* Stainless Steel is priced by quote only. Contact your factory representative for assistance.

Class I, Div. 1 and 2, Groups A,B,C,D
 Class I, Zone 1, AExd IIC
 Class II, Div. 1 and 2
 Groups E,F,G
 Class III
 NEMA 4X, IP66

TM CX Connectors For Jacketed and Non-Jacketed Metal Clad Cable: Explosionproof, Dust-Ignitionproof

TM CX For Hazardous Locations

Applications

- TM CX connectors are designed for use with the following cables: MC/MCHL – Corrugated/ Interlocked Aluminium/ Steel Armor and Continuously Welded Armor Cables, e.g. TECK or CLX
- TM CX connectors provide a means for terminating jacketed type MC cable, forming a mechanical watertight connection and providing ground continuity for cable armor.
- For use on horizontal or vertical runs.
- For use in Class I, Div. 1 & 2 and Class II, Div. 1 & 2 hazardous locations.
- For non-hazardous locations – Use TMC.

Features

- Independent sealing and armor clamping
- True 360° grounding
- Superior pull out prevention
- Compact slim profile
- Reduced installation time
- Widest cable acceptance range
- Supplied complete with epoxy sealing

compound

- Disconnectable design
- Additional Integral Deluge proof seal for protection in extreme offshore and onshore environments

Standard Materials

- Bodies, Sleeve and gland nut are copper-free aluminum, nickel plated brass, stainless steel.
- Grounding spring is stainless steel.
- Bushing is LSF-TPE (halogen-free).
- Stop and slip washers are nylon.
- O-ring is Viton.

Size Ranges

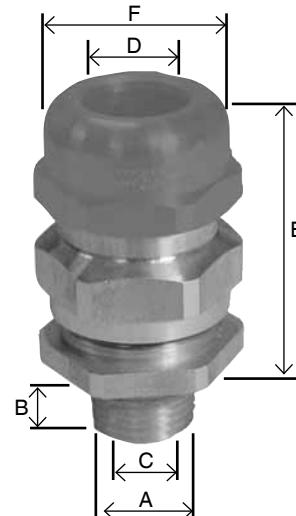
- Trade sizes 1/2" thru 4".
- Cable Jacket Diameter Range: 0.345" thru 4.220".
- Cable Armor Diameter Range: 0.342" thru 4.020".

Compliances

- UL Standard 514B, 886, 2225, 2279
- CSA Standard C22.2 No 18, 174 &

IEC 60079

- UL Listing File: E83827
- CSA Certificate No: 1129339
- NEMA 3, 4, 4X & IP66



Order Reference			Entry Thread 'A'		Min Thread Length 'B'	Cable Armor Diameter 'C'				Cable Jacket Diameter 'D'	Nominal Assembly Length 'E'	Envelope Diameter 'F'	Compound Weight in OZ's	
						End Stop in		End Stop out						
Aluminum	NP Brass	Stainless Steel*	NPT	Metric		Min	Max	Min	Max					
TM CX050SA	TM CX050SNB	TM CX050SS	1/2"	M20	0.59	-	-	0.342	0.503	0.354	0.547	2.20	1.31	1/2
TM CX050A	TM CX050NB	TM CX050SS	1/2"	M20	0.59	-	-	0.510	0.669	0.550	0.787	2.20	1.57	1/2
TM CX075A	TM CX075NB	TM CX075SS	3/4"	M25	0.59	0.591	0.756	0.756	0.917	0.669	1.035	2.20	1.79	1/2
TM CX100A	TM CX100NB	TM CX100SS	1"	M32	0.63	0.825	0.969	0.969	1.150	0.910	1.268	2.24	2.18	1-1/4
TM CX125A	TM CX125NB	TM CX125SS	1-1/4"	M40	0.63	1.083	1.228	1.228	1.386	1.161	1.504	2.24	2.40	1-1/4
TM CX150A	TM CX150NB	TM CX150SS	1-1/2"	M50	0.63	1.320	1.461	1.461	1.618	1.402	1.736	2.37	2.62	2
TM CX200SA	TM CX200SNB	TM CX200SS	2"	M50	0.63	1.508	1.677	1.677	1.854	1.579	2.008	2.60	3.06	3
TM CX200A	TM CX200NB	TM CX200SS	2"	M63	0.63	1.772	1.933	1.933	2.087	1.858	2.205	2.81	3.28	4-3/4
TM CX250SA	TM CX250SNB	TM CX250SS	2-1/2"	M63	0.90	2.052	2.161	2.161	2.320	2.079	2.441	2.88	3.49	9-1/2
TM CX250A	TM CX250NB	TM CX250SS	2-1/2"	M75	0.90	2.247	2.406	2.406	2.545	2.327	2.677	2.88	3.71	9-1/2
TM CX300A	TM CX300NB	TM CX300SS	3"	M90	0.98	2.543	2.776	2.776	2.965	2.622	3.126	3.92	4.80	12-1/2
TM CX350A	TM CX350NB	TM CX350SS	3-1/2"	M100	1.437	2.913	3.291	3.291	3.485	2.992	3.827	4.61	5.82	19
TM CX402400	-	-	4"	M110	1.437	-	-	3.500	4.020	3.700	4.220	7.66	5.84	19

* Stainless Steel is priced by quote only. Contact your factory representative for assistance.

TM CX Epoxy Sealing Compound

Gland Size	Compound Supplied	Replacement Compound
1/2"	15 GRAM	LTCOMP15
3/4"	35 GRAM	LTCOMP35
1"	35 GRAM	LTCOMP35
1-1/4"	55 GRAM	LTCOMP55
1-1/2"	90 GRAM	LTCOMP90
2"S	90 GRAM	LTCOMP90

Gland Size	Compound Supplied	Replacement Compound
2"	135 GRAM	LTCOMP135
2-1/2"S	270 GRAM	LTCOMP270
2-1/2"	270 GRAM	LTCOMP270
3"	405 GRAM	1 EA. LTCOMP135 & LTCOMP270
3-1/2" & 4"	540 GRAM	2 EA. LTCOMP270

Cable Gland Selection Guide

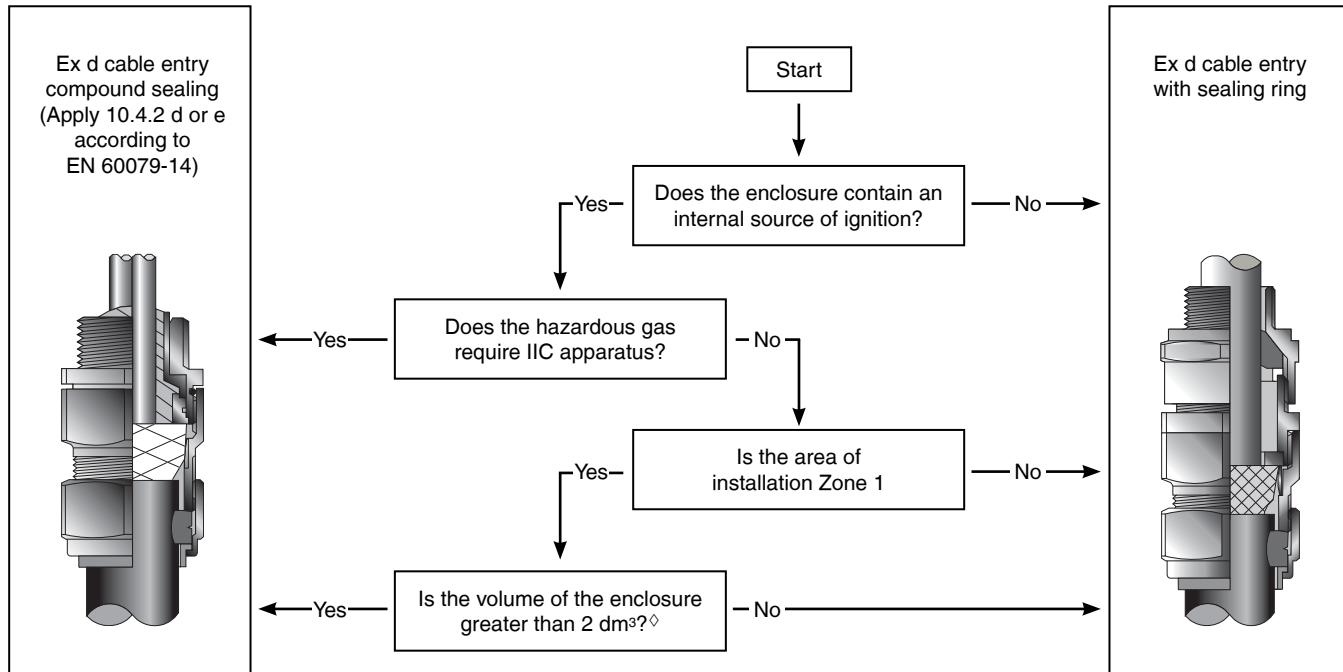
Selection Chart

TYPE	SERIES	PAGE	MATERIAL	NON-ARMORED CABLES		ARMORED CABLES		
				WIRE	BRAID	TAPE		
MARINE	C2KX	I-35	Brass with nickel-plated brass entry	Yes				
ELASTOMER SEAL	A2	I-29	Brass, fully nickel plated	Yes				
	A2F	I-30	Brass, fully nickel plated	Yes				
"d" and "e"	T3CDS	I-31	Brass with nickel-plated brass entry		Yes	Yes	Yes	
COMPOUND SEAL	PXSS2K	I-32	Brass with nickel-plated brass entry	Yes (Tray)				
COMPOUND SEAL	PXB2KX*	I-33	Brass with nickel-plated brass entry			Yes (non-jacketed)		
UL	PX2KX*	I-34	Brass with nickel-plated brass entry			Yes		

* Also ATEX & Marine rated.

Selection Guide

Selection of cable entry for Ex d flameproof enclosure according to electrical installations IEC 60079-14.



Note: Cable must be substantially compact and circular with an extruding bedding, and if any filters are used they are Non-Hygroscopic.

◊ dm³: 1 cubic decimeter equals approximately 61 cubic inches.

A2 Industrial Cable Gland

Unarmored Cable

Applications

- A2 type brass indoor and outdoor cable gland for use with all types of unarmored cable providing mechanical cable retention and an environmental seal on the cable outer sheath.

Features

- Designed and tested to BS 6121: Part 1: 1989, meets and surpasses the requirements of EN 50262:1999.
- Brass grade CuZn39Pb3 (CW614N) to EN12168.
- Continuous operating temperature range: -60°C to +150°C.

Materials:

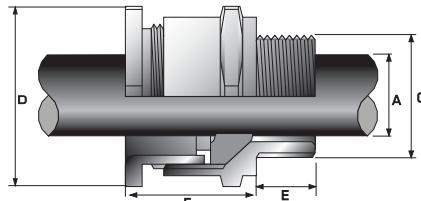
- **Gland:** Brass, fully nickel plated
- **Seal:** Solo LSF
- **Cable type:** Unarmored. Sealing technique - Displacement seal concept. Sealing area(s) - outer sheath.

Optional Accessories:

- Shroud, locknut, earth tag, entry thread seal, serrated washers (I-38). Adaptors and reducers (I-35 thru I-37).
- Also available in Brass with Nickel Plated finish, Stainless Steel & Aluminum.
- Brass with nickel plated brass entry replace RA5 with RA7.
- Aluminum replace RA5 with RA1.
- 316 Stainless steel replace RA5 with RA4.

Compliances/Approvals:

- Ingress Protection - IP66, IP67 & IP68
- Deluge Protection - To DTS01 : 91
- CEPEL/INMENRD Approval - EX-023
- SAQAS Approval - AUDEX764
- Marine Approvals - LLOYDS, DNV, ABS



Ordering Information

Gable Gland Size	Available Entry Threads "C"			Maximum Thread Length "E"	Overall Cable Diameter "A" Min	Across Flats "D" Max	Across Corners "D" Max	Nominal Protrusion Length "F"	Catalog Number		PVC Shroud Reference	Cable Gland Weight (Ozs)	
	Standard NPT	Option NPT	Metric						NPT	Metric			
20S/16	1/2"	3/4"	M20	0.591	0.126	0.343	0.945	1.047	0.827	20S16A21RA531	20S16A21RA5	PVC04	1.90
20S	1/2"	3/4"	M20	0.591	0.240	0.461	0.945	1.047	0.827	20SA21RA531	20SA21RA5	PVC04	1.90
20	1/2"	3/4"	M20	0.591	0.256	0.551	1.063	1.220	0.945	20A21RA531	20A21RA5	PVC05	2.08
25	3/4"	1"	M25	0.591	0.437	0.787	1.417	1.535	1.024	25A21RA532	25A21RA5	PVC09	3.95
32	1"	1-1/4"	M32	0.591	0.669	1.035	1.614	1.772	1.063	32A21RA533	32A21RA5	PVC10	4.51
40	1-1/4"	1-1/2"	M40	0.591	0.925	1.268	1.969	2.106	1.102	40A21RA534	40A21RA5	PVC13	5.93
50S	1-1/2"	2"	M50	0.591	1.220	1.504	2.165	2.402	1.142	50S1A1RA535	50S1A1RA5	PVC14	7.90
50	2"	2-1/2"	M50	0.591	1.402	1.736	2.362	2.598	1.181	50A21RA536	50A21RA5	PVC17	8.15
63S	2"	2-1/2"	M63	0.591	1.634	1.969	2.756	3.051	1.181	63SA21RA536	63SA21RA5	PVC20	12.69
63	2-1/2"	3"	M63	0.591	1.858	2.205	2.953	3.307	1.181	63A21RA537	63A21RA5	PVC22	12.14
75S	2-1/2"	3"	M75	0.591	2.126	2.441	3.110	3.425	1.260	75A21RA538	75A21RA5	PVC24	16.44
75	3"	3-1/2"	M75	0.591	2.406	2.677	3.307	3.701	1.260	75S1RA537	75S1RA5	PVC26	13.93
90	3"	3-1/2"	M90	0.591	2.622	3.150	4.252	4.724	1.732	90A21RA538	90A21RA5	PVC31	47.48

All dimensions in inches.

A2F Flameproof Ex d* & Increased Safety Ex e Cable Gland

Unarmored Cable

Applications

- For use in Zone I, Zone 2, Zone 21 and Zone 22 hazardous area locations.

Features

- Dual Certified flameproof (Type 'd') and Increased Safety (Type 'e') indoor and outdoor cable glands.
- Continuous operating temperature range: -60°C to +130°C.

Materials:

- Gland:** Brass, fully nickel plated
- Seal:** Solo LSF
- Cable type:** Unarmored. Sealing technique - Displacement seal concept. Sealing area(s) - outer sheath.

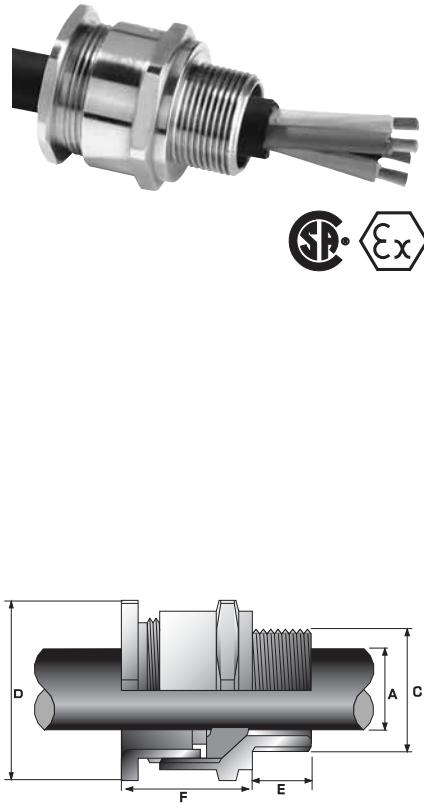
Optional Accessories:

- Shroud, locknut, earth tag, entry thread seal, serrated washers (I-38). Adaptors and reducers (I-35 thru I-37).
- Integral Entry Thread Seal option available (for this option pre-fix gland type with 'R', e.g. 25RA2F). Also available in Brass with Nickel Plated finish, Stainless Steel & Aluminum.
- Brass full nickel plate add suffix -5.
- Brass nickel plated entry only, add suffix -7.
- 316 Stainless steel add suffix -4.

Compliances/Approvals:

- CSA - 1211841
- CENELEC (ATEX) Certification - SIRA06ATEX1097X
- Code of protection category - ATEX II 2 GD Ex d* IIC & Ex e II, Ex nr II, Ex tD A621, Equipment Zone I & 2, Zone 21 & 22 - Gas Groups IIA, IIB & IIC, ATEX Ex IM2, Ex d I, Ex e I.
- Compliance Standards - EN 60079-0:2004, EN 60079-1:2004, EN 60079-7:2003, EN 60079-15:2003, EN 61241-0:2004 EN 61241-1:2004
- Ingress Protection - IP66, IP67 & IP68
- Deluge Protection - To DTS01 : 91
- CEPEL/INMENRD Approval - EX-023
- SAQAS Approval - AUSEX764
- Marine Approvals - LLOYDS, DNV, ABS

* The A2F Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 and Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14. See page 28.



Ordering Information

Gable Gland Size	Available Entry Threads "C"			Maximum Thread Length "E"	Overall Cable Diameter "A"	Across Flats "D"	Across Corners "D"	Nominal Protrusion Length "F"	NPT Catalog Number	Metric Catalog Number	PVC Shroud Reference	Cable Gland Weight (Ozs)	
	Standard NPT	NPT Option	Metric										
	NPT	NPT	Metric	Min	Max	Max	Max						
20S/16	1/2"	3/4"	M20	0.591	0.126	0.343	0.945	1.047	0.827	20S16A2F1RA531	20S16A2F1RA5	PVC04	1.90
20S	1/2"	3/4"	M20	0.591	0.240	0.461	0.945	1.047	0.827	20SA2F1RA531	20SA2F1RA5	PVC04	1.90
20	1/2"	3/4"	M20	0.591	0.256	0.551	1.063	1.220	0.945	20A2F1RA531	20A2F1RA5	PVC05	2.08
25	3/4"	1"	M25	0.591	0.437	0.787	1.417	1.535	1.024	25A2F1RA532	25A2F1RA5	PVC09	3.95
32	1"	1-1/4"	M32	0.591	0.669	1.035	1.614	1.772	1.063	32A2F1RA533	32A2F1RA5	PVC10	4.51
40	1-1/4"	1-1/2"	M40	0.591	0.925	1.268	1.969	2.106	1.102	40A2F1RA534	40A2F1RA5	PVC13	5.93
50S	1-1/2"	2"	M50	0.591	1.220	1.504	2.165	2.402	1.142	50SA2F1RA535	50SA2F1RA5	PVC14	7.90
50	2"	2-1/2"	M50	0.591	1.402	1.736	2.362	2.598	1.181	50A2F1RA536	50A2F1RA5	PVC17	8.15
63S	2"	2-1/2"	M63	0.591	1.634	1.969	2.756	3.051	1.181	63SA2F1RA536	63SA2F1RA5	PVC20	12.69
63	2-1/2"	3"	M63	0.591	1.858	2.205	2.953	3.307	1.181	63A2F1RA537	63A2F1RA5	PVC22	12.14
75S	2-1/2"	3"	M75	0.591	2.126	2.441	3.110	3.425	1.260	75SA2F1RA537	75SA2F1RA5	PVC24	16.44
75	3"	3-1/2"	M75	0.591	2.406	2.677	3.307	3.701	1.260	75A2F1RA538	75A2F1RA5	PVC26	13.93
90	3"	3-1/2"	M90	0.591	2.622	3.150	4.252	4.724	1.732	90A2F1RA538	90A2F1RA5	PVC31	47.48

All dimensions in inches.

Substitutions:

Full nickel plated brass threaded entry - replace RA5 with RA7.

316L stainless steel - replace RA5 with RA4.

T3CDS Cable Gland

SWA, STA and Wire Braid Cable

Applications

- For use in Zone I, Zone 2, Zone 21 and Zone 22 – hazardous area locations.

Features

- TRITON CDS (Compensating Displacement seal) T3CDS Flameproof Ex d and Increased Safety Ex e brass cable gland for all types of armored & braided cable including lead sheathed versions, provides a Flameproof seal on the cable inner sheath and an environmental seal on the cable outer sheath.

Inner flameproof seal:

- Unique new CDS system, compatible with all types of cable (eliminates cable damage and cold flow)
- At the critical cable sealing point the CDS system protects the cable inner sheath from any excess force, which is transferred to and absorbed by the internal compensator incorporated in the CDS system
- Allows the Cable Gland to be tightened face to face every time regardless of cable diameter.
- Equipped with a unique Reversible

Armor Cone and Bi-Directional Armor Clamping Ring which can accommodate SWA, braided and STA cables.

- The Cable Gland provides mechanical cable retention, and electrical continuity via armor termination.
- Continuous operating temperature range of -60°C to +130°C.

Materials:

- Standard Cable Gland: Brass with Nickel-Plated threaded entry
- Seal: Solo LSF
- Cable type: S.W.A., S.T.A. & Wire Braid. Sealing technique - Unique Compensating Displacement Seal (CDS) System. Sealing area(s) - Inner & outer sheath.

Optional Accessories:

- Shroud, locknut, earth tag, entry thread seal, serrated washers (I-38). Adaptors and reducers (I-35).
- Integral Entry Thread option is available. For this option, pre-fix type with 'R' - example: RT3CDS or RT3CD-SPB.

Compliances/Approvals:

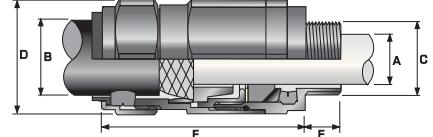
- Code of protection category: ATEX II 2/3 GD Ex d* IIC & Ex e II, EX nR II, Ex tD A21 IP66, Equipment Zone I, Zone 2, Zone 21 and



Zone 22 – Gas Groups IIA, IIB, IIC

- Compliance Standards: Class I, Div. 2, Groups ABCD, Class II, Div. 2, Groups EFG, Enclosure Type 3,4,4X, Class III, Ex d IIC, Ex e II, NEMA 3,4,4X
- Ingress Protection: IP66, IP67 & IP68

* The T3CDS Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 and Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14. See page 28.



Ordering Information

Cable Con- nector Size	Available Entry Threads				Minimum Thread Length 'E'	Cable Bedding Diameter 'A'	Overall Cable Diameter 'B'	Armour Range †				Across Flats 'D'	Across Corners 'D'	Nominal Protru- sion Length 'F'	NPT Catalog Number	Metric Catalog Number	Cable Gland Weight (Ozs)		
	Standard	Option	NPT	Metric				Grooved Cone	Stepped Cone	Min	Max								
			NPT	Metric				Min	Max	Min	Max								
20S/16	1/2"	3/4"	M20	0.630	0.591	0.122	0.343	0.240	0.453	0.0	0.039	0.035	0.039	0.945	1.047	2.756	2016T3CDS1RA731	16T3CDS1RA7	6.25
20S	1/2"	3/4"	M20	0.630	0.591	0.240	0.461	0.374	0.626	0.0	0.039	0.035	0.049	0.945	1.047	2.756	20ST3CDS1RA731	20ST3CDS1RA7	6.25
20	1/2"	3/4"	M20	0.630	0.591	0.256	0.551	0.492	0.823	0.0	0.039	0.035	0.049	1.201	1.311	2.835	20T3CDS1RA731	20T3CDS1RA7	9.25
25S	3/4"	1"	M25	0.669	0.591	0.437	0.787	0.551	0.866	0.0	0.039	0.049	0.063	1.476	1.594	3.228	25ST3CDS1RA732	25ST3CDS1RA7	13.35
25	3/4"	1"	M25	0.669	0.591	0.437	0.787	0.717	1.031	0.0	0.039	0.049	0.063	1.476	1.594	3.228	25T3CDS1RA732	25T3CDS1RA7	13.35
32	1"	1-1/4"	M32	0.787	0.591	0.669	1.035	0.933	1.335	0.0	0.039	0.063	0.079	1.811	2.008	3.346	32T3CDS1RA733	32T3CDS1RA7	19.71
40	1-1/4"	1-1/2"	M40	0.787	0.591	0.866	1.268	1.098	1.591	0.0	0.039	0.063	0.079	2.165	2.402	3.386	40T3CDS1RA734	40T3CDS1RA7	29.85
50S	1-1/2"	2"	M50	0.787	0.591	1.161	1.504	1.386	1.839	0.0	0.039	0.079	0.098	2.362	2.618	3.858	50ST3CDS1RA735	50ST3CDS1RA7	37.14
50	2"	2-1/2"	M50	0.906	0.591	1.402	1.736	1.591	2.091	0.0	0.039	0.079	0.098	2.756	3.094	3.937	50T3CDS1RA736	50T3CDS1RA7	53.54
63S	2"	2-1/2"	M63	0.906	0.591	1.579	1.969	1.795	2.339	0.0	0.039	0.079	0.098	2.953	3.276	4.252	63ST3CDS1RA736	63ST3CDS1RA7	61.60
63	2-1/2"	3"	M63	0.984	0.591	1.858	2.205	2.150	2.594	0.0	0.039	0.079	0.098	3.150	3.504	4.355	63T3CDS1RA737	63T3CDS1RA7	59.86
75S	2-1/2"	3"	M75	0.984	0.591	2.079	2.441	2.323	2.839	0.0	0.039	0.079	0.098	3.504	4.000	4.434	75ST3CDS1RA737	75ST3CDS1RA7	82.54
75	3"	3-1/2"	M75	1.417	0.591	2.327	2.677	2.626	3.091	0.0	0.039	0.079	0.098	3.898	4.374	4.520	75T3CDS1RA738	75T3CDS1RA7	112.64
90	3-1/2"	4"	M90	1.417	0.591	2.622	3.126	3.000	3.559	0.0	0.063	0.124	0.124	4.488	5.063	5.512	90T3CDS1RA739	90T3CDS1RA7	179.50

All dimensions in inches.

*For IP67 & IP68 requirements the Cable Diameter 'B' (minimum value) shown should be increased by 0.04mm to ensure complete compliance.

Substitutions:

Full nickel plated brass - replace RA7 with RA5.

316L stainless steel - replace RA7 with RA4.

Optional PVC shrouds not recommended.

PXSS2K Connector: Flame Proof Compound Barrier Type Cable Connector

Unarmored Tray Cable.

Applications

- Flame Proof Class I Division 2 Cable Connector suitable for Tray, Unarmored and Shipboard cables.

Features

- Connector provides an environmental seal on the cable jacket and an explosion proof compound barrier seal around the cable inner cores.
- The connector is UL listed for NPT or Metric entry threads and is manufactured in Brass.
- Continuous operating temperature -60°C to +100°C.

Materials:

- **Connector:** Brass construction (other materials available - consult factory). Finish is Brass with nickel plated brass threaded entry as standard.
- **Seal:** Solo LSF/Epoxy putty
- **Cable type:** Unarmored, Tray and Shipboard cable. Sealing technique - Displacement seal concept. Sealing area(s) - Inner compound barrier and outer sheath.

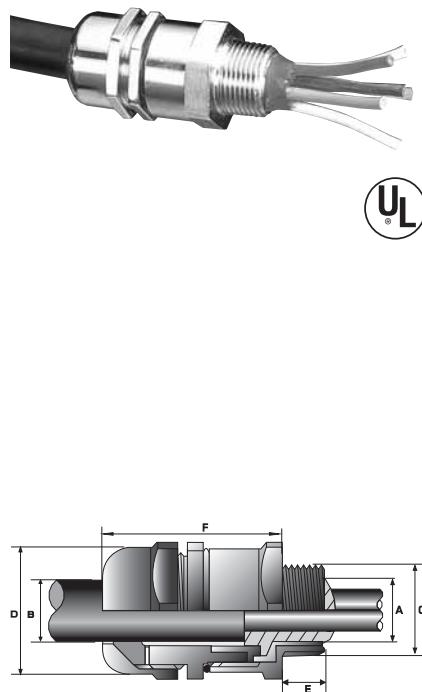
Optional Accessories:

- Locknut, earth tag, entry thread seal, serrated washer (I-38). Adaptors and reducers (I-35 thru I-37).
- Brass full nickel plate add suffix -5.
- Brass nickel plated entry only, add suffix -7.
- 316 Stainless steel add suffix -4.

Compliances/Approvals:

- Code of protection category: ATEX Ex II 2 GD Ex d IIC & Ex e II, Ex nR II, Ex tD A21 IP66, Equipment Zone I, Zone 2, Zone 21 and Zone 22 – Gas Groups IIA, IIB, IIC
- Compliance Standards: Class I, Div. 2, Groups ABCD, Class II, Div. 2, Groups FG, Class I, Zone 1, AEx d IIC, AEx e II
- Ingress Protection: IP66, IP67 & IP68 (to a depth of 10M), NEMA 4X

Note: CENELEC Zone I Certified version also available. Consult factory.



Ordering Information

Cable Connector Size	Available Entry Threads 'C'				Minimum Thread Length 'E'		Dia. Over Conductors 'A'	No. of Cores	Overall Cable Diameter 'B'	Across Flats 'D'		Across Corners 'D'		Nominal Protrusion Length 'F'	NPT Catalog Number	PVC Shroud Reference	Cable Connector Wt (Ozs)
	NPT	NPT	Metric	NPT	Metric	Max				Max	Max	Max	Max	Max			
20S/16	1/2"	3/4"	M20	0.630	0.591	0.496	15	0.122	0.343	0.945	1.047	2.303	2.303	20S16PXSS2K731	PVC04	5.68	
20S	1/2"	3/4"	M20	0.630	0.591	0.496	15	0.240	0.470	0.945	1.047	2.303	2.303	20SPXSS2K1RA731	PVC04	5.68	
20	1/2"	3/4"	M20	0.630	0.591	0.496	15	0.260	0.530	1.201	1.311	2.382	2.382	20PXSS2K1RA731	PVC05	7.09	
20L	1/2"	3/4"	M20	0.630	0.591	0.496	15	0.390	0.630	1.201	1.311	2.382	2.382	20LPXSS2K1RA731	PVC05	7.09	
25	3/4"	1"	M25	0.669	0.591	0.689	29	0.440	0.780	1.476	1.594	2.657	2.657	25PXSS2K1RA732	PVC09	11.44	
32	1"	1-1/4"	M32	0.787	0.591	0.929	51	0.670	1.030	1.811	2.008	2.736	2.736	32PXSS2K1RA733	PVC10	15.75	
32L	1"	1-1/4"	M32	0.787	0.591	0.929	51	0.790	1.079	1.811	2.008	2.736	2.736	32LPXSS2K1RA733	PVC10	15.75	
40	1-1/4"	1-1/2"	M40	0.787	0.591	1.181	80	0.870	1.260	2.165	2.402	3.071	3.071	40PXSS2K1RA734	PVC13	17.03	
50S	1-1/2"	2"	M50	0.787	0.591	1.441	122	1.160	1.500	2.362	2.618	2.972	2.972	50SPXSS2K1RA735	PVC14	17.17	
50	2"	2-1/2"	M50	0.906	0.591	1.614	149	1.400	1.730	2.756	3.094	3.169	3.169	50PXSS2K1RA736	PVC17	17.59	
63S	2"	2-1/2"	M63	0.906	0.591	1.886	205	1.580	1.960	2.953	3.276	3.602	3.602	63SPXSS2K1RA736	PVC20	20.00	
63	2-1/2"	3"	M63	0.984	0.591	2.114	259	1.860	2.200	3.150	3.504	3.622	3.622	63PXSS2K1RA737	PVC22	20.71	
75S	2-1/2"	3"	M75	0.984	0.591	2.354	320	2.080	2.440	3.504	4.000	3.898	3.898	75SPXSS2K1RA737	PVC24	32.63	
75	3"	3-1/2"	M75	1.417	0.591	2.531	364	2.330	2.670	3.898	4.374	4.016	4.016	75PXSS2K1RA738	PVC26	36.89	
90	3-1/2"	4"	M90	1.417	0.591	2.965	500	2.620	3.120	4.488	5.063	4.724	4.724	90PXSS2K1RA739	PVC31	76.61	

All dimensions in inches.

Increased metric thread engagement is required for gas groups A and B. Please specify gas group, thread form and size when ordering.

Substitutions:

Full nickel plated brass - replace RA7 with RA5.

316L stainless steel - replace RA7 with RA4.

Protex 2000 (PXB2KX) Connector: Flame Proof Compound Barrier Type Cable Connector

Armored (non-jacketed) Cables.

Applications

- Flame proof Class I Division 2 Cable Connector for wire braid armor cables.

Features

- Connector provides mechanical retention and electrical continuity via a disconnectable armor termination.
- The connector is UL listed for supply with either NPT or Metric entry threads.
- The connector provides an flame proof compound seal around the cable inner core and has an internal sealing ring to prevent ingress of dust and moisture.

Materials:

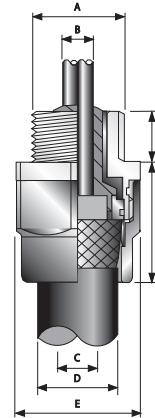
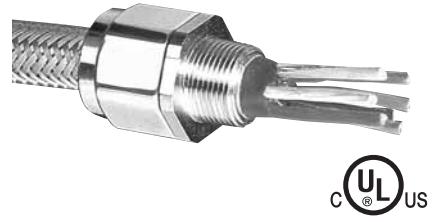
- *Connector:* Brass construction (other materials available - consult factory). Finish is Brass with nickel plated brass threaded entry as standard.
- *Compound material:* Epoxy putty.
- *Cable type:* Braid armor (non-jacketed). Armor termination - Disconnectable armor cone and ring. Sealing area(s) - Compound barrier to inner cable cores.

Optional Accessories:

- Earth tag, entry thread seal, serrated washer (I-38). Adaptors and reducers (I-35 thru I-37).
- Brass full nickel plate add suffix -5.
- Brass nickel plated entry only, add suffix -7.
- 316 Stainless steel add suffix -4.

Compliances/Approvals:

- cUL Listed - E201187
- UL 2225, UL 886 and UL 514B
- Class I, Div. 2, Groups A, B, C & D
- Class II, Div. 1, Groups F & G
- Class III, Div. 1 & 2
- Ingress Protection: NEMA 4, Oil Resistant II
- ATEX Approval: SIRA 01ATEX1285X
- Marine Approvals: LLOYDS, DNV, ABS



Ordering Information

Gland Size	Entry Thread 'A'				Max. Diameter				NPT Catalog Number	Metric Catalog Number	Cable Gland Weight (Ozs)
	NPT Trade Size	Length "G"	Metric Trade Size	Length "G"	Under Armor 'C'	Over Armor 'D'	Across Corners 'E'	Assembled Length 'F'			
20/16	1/2"	0.642	M20	0.591	0.496	0.516	1.311	1.370	2016PXB2KX1R731	2016PXB2KX1RA7	1.90
20s	1/2"	0.642	M20	0.591	0.496	0.574	1.311	1.370	20SPXB2KX1RA731	20SPXB2KX1RA7	1.90
20	1/2"	0.642	M20	0.591	0.547	0.736	1.311	1.299	20PXB2KX1RA731	20PXB2KX1RA7	2.08
25	3/4"	0.654	M25	0.591	0.783	1.003	1.594	1.421	25PXB2KX1RA732	25PXB2KX1RA7	3.95
32	1"	0.815	M32	0.591	1.031	1.236	2.007	1.641	32PXB2KX1RA733	32PXB2KX1RA7	4.51
40	1-1/4"	0.839	M40	0.591	1.264	1.567	2.402	1.708	40PXB2KX1RA734	40PXB2KX1RA7	5.93
50s	1-1/2"	0.854	M50	0.591	1.499	1.858	2.618	1.767	50SPXB2KX1RA735	50SPXB2KX1RA7	7.90
50	2"	0.886	M50	0.591	1.732	2.091	3.059	1.902	50PXB2KX1RA736	50PXB2KX1RA7	8.15
63s	2"	0.886	M63	0.591	1.964	2.315	2.272	1.992	63SPXB2KX1RA736	63SPXB2KX1RA7	12.69
63	2-1/2"	1.323	M63	0.591	2.201	2.527	3.492	1.713	63PXB2KX1RA737	63PXB2KX1RA7	12.14
75s	2-1/2"	1.323	M75	0.591	2.437	2.815	3.929	2.338	75SPXB2KX1RA737	75SPXB2KX1RA7	16.44
75	3"	1.390	M75	0.591	2.673	3.067	4.362	2.413	75PXB2KX1RA738	75PXB2KX1RA7	13.93
90	3"	1.390	M90	0.787	3.122	3.499	5.019	2.531	90PXB2KX1RA738	90PXB2KX1RA7	47.48

All dimensions in inches.

Increased metric thread engagement is required for gas groups A and B. Please specify gas group, thread form and size when ordering.

Substitutions:

Full nickel plated brass - replace RA7 with RA5.

316L stainless steel - replace RA7 with RA4.

Protex 2000 (PX2KX) Connector: Explosion proof Compound Barrier Type Cable Connector

Armored and Jacketed Cables.

Applications

- Explosion Proof Class I Division 1 Brass cable connector suitable for wire Braid Armor & Jacketed cables.

Features

- Connector provides an environmental seal on the cable outer jacket and an explosion proof compound barrier seal around the cable inner cores.
- Connector provides mechanical cable retention and electrical continuity via armor termination.
- The connector is UL listed for NPT and Metric threads.
- PX2KX forms part of a comprehensive connector range for marine shipboard and IEE45 armored & jacketed cables.

Materials:

- **Connector:** Brass construction. Finish is Brass with nickel plated brass threaded entry as standard.
- **Seal:** Solo LSF/Epoxy putty
- **Cable type:** Braid armor & jacketed. Armor termination - Disconnectable armor cone and ring. Sealing area(s) - Displacement seal concept.

Optional Accessories:

- Locknut, earth tag, entry thread seal, serrated washer (I-38). Adaptors and reducers (I-35 thru I-37).
- Brass full nickel plate add suffix **-5**.
- Brass nickel plated entry only, add suffix **-7**.
- 316 Stainless steel add suffix **-4**.

Compliances/Approvals:

- cUL Listed - E161256
- UL 2225, UL 886 and UL 514B
- Class I, Groups A, B, C & D
- Class II, Groups E, F & G
- Class III
- Class I, Zone 1, AEx d IIC
- Ingress Protection: NEMA 4X, Oil Resistant II
- Third Party Approvals: IP66, IP67 & IP68 (to a depth of 10M)
- Shell / ERA deluge test DTS 01:1991 (after 20 years simulated accelerated ageing)
- ATEX Approval: SIRA 01ATEX1285X
- Marine Approvals - LLOYDS, DNV, ABS

Note: CENELEC Zone I Certified version also available. Consult factory.



Ordering Information

Cable Connec- tor Size	Available Entry Threads		Dia. Over Con- ductors 'A'	No. of Cores	Overall cable Diameter 'B'	Armour Range †	Nom- inal			NPT Catalog Number	Metric Catalog Number	PVC Shroud Refer- ence	Cable Connec- tor Wt. (Ozs)					
	'C'						Minimum Thread Length 'E'	Across Flats 'D'	Across Corners 'D'									
	Standard	Option																
	NPT	NPT	Metric	NPT	Metric	Max	Max	Min	Max	Max	Max	Max	'F'					
20S/16	1/2"	3/4"	M20	0.63	0.591	0.496	15	0.240	0.453	0	0.039	0.945	1.047	2.303	2016PX2KX1RA731	20S16PX2KX1RA7	PVC04	7.06
20S	1/2"	3/4"	M20	0.630	0.591	0.496	15	0.374	0.626	0	0.039	0.945	1.047	2.303	20SPX2KX1RA731	20SPX2KX1RA7	PVC04	7.06
20	1/2"	3/4"	M20	0.630	0.591	0.496	15	0.492	0.823	0	0.039	1.201	1.311	2.382	20PX2KX1RA731	20PX2KX1RA7	PVC06	8.11
25S	3/4"	1"	M25	0.669	0.591	0.689	29	0.551	0.866	0	0.039	1.476	1.594	2.657	25SPX2KX1RA732	25SPX2KX1RA7	PVC09	11.64
25	3/4"	1"	M25	0.669	0.591	0.689	29	0.717	1.031	0	0.039	1.476	1.594	2.657	25PX2KX1RA732	25PX2KX1RA7	PVC09	11.64
32	1"	1-1/4"	M32	0.787	0.591	0.929	51	0.933	1.335	0	0.039	1.811	2.008	2.736	32PX2KX1RA733	32PX2KX1RA7	PVC11	17.99
40	1-1/4"	1-1/2"	M40	0.787	0.591	1.181	80	1.098	1.591	0	0.039	2.165	2.402	3.071	40PX2KX1RA734	40PX2KX1RA7	PVC15	25.40
50S	1-1/2"	2"	M50	0.787	0.591	1.441	122	1.386	1.839	0	0.039	2.362	2.618	2.972	50SPX2KX1RA735	50SPX2KX1RA7	PVC18	29.10
50	2"	2-1/2"	M50	0.906	0.591	1.614	149	1.591	2.091	0	0.039	2.756	3.094	3.169	50PX2KX1RA736	50PX2KX1RA7	PVC21	30.34
63S	2"	2-1/2"	M63	0.906	0.591	1.886	205	1.795	2.339	0	0.039	2.953	3.276	3.602	63SPX2KX1RA736	63SPX2KX1RA7	PVC23	51.15
63	2-1/2"	3"	M63	0.984	0.591	2.114	259	2.150	2.594	0	0.039	3.150	3.504	3.622	63PX2KX1RA737	63PX2KX1RA7	PVC25	56.44
75S	2-1/2"	3"	M75	0.984	0.591	2.354	320	2.323	2.839	0	0.039	3.504	4.000	3.898	75SPX2KX1RA7387	75SPX2KX1RA7	PVC28	81.13
75	3"	3-1/2"	M75	1.417	0.591	2.531	364	2.626	3.091	0	0.039	3.898	4.374	4.016	75PX2KX1RA738	75PX2KX1RA7	PVC30	107.59
90	3-1/2"	4"	M90	1.417	0.591	2.965	500	3.000	3.559	0	0.063	4.488	5.063	4.724	90PX2KX1RA739	90PX2KX1RA7	PVC32	176.37

All dimensions in inches.

Substitutions:

Full nickel plated brass - replace **RA7** with **RA5**.

316L stainless steel - replace **RA7** with **RA4**.

C2KX Marine Cable Connector

Braid Armor and Jacketed Cables.

Applications

- Cable Connector for wire braid armor & jacketed cables is suitable for ordinary and wet locations and provides mechanical retention and electrical continuity via a disconnectable armor termination.

Features

- Connector provides an environmental seal on the cable outer jacket and is UL listed for NPT or Metric entry threads.
- The C2KX forms part of a comprehensive range of deluge proof connectors for marine shipboard and IEE45 armor jacketed cables. Permitted for use in Division 2 areas on equipment without internal source of ignition (i.e. no arcing or sparking devices).

Materials:

- **Connector:** Brass. Finish is Brass with nickel plated brass threaded entry as standard.
- **Seal:** Solo LSF.
- **Cable type:** Braid armor & jacketed. Armor termination - Disconnectable armor cone and ring. Sealing technique - Displacement seal concept. Sealing area - Outer sheath.

Optional Accessories:

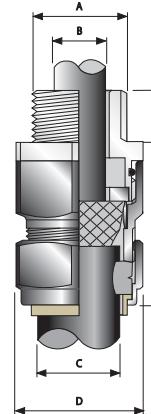
- Earth tag, entry thread seal, serrated washer (I-38). Adaptors and reducers (I-35 thru I-37).
- Brass full nickel plate add suffix **-5**.
- Brass nickel plated entry only, add suffix **-7**.
- 316 Stainless steel add suffix **-4**.

Compliances/Approvals:

- UL Listed - E200163
- UL 514B
- Class I, Div 2*, Groups A,B,C,D
- Class I, Zone 1, AEx e II
- Class I, Zone 2, AEx e II
- Ordinary and wet locations
- Ingress Protection: NEMA 4, Oil Resistant II
- Third Party Approvals: IP66, IP67 & IP68 (to a depth of 10M)
- Shell / ERA deluge test DTS 01:1991 (after 20 years simulated accelerated ageing)
- Marine approval: LLOYDS, ABS

* When installed in accordance with the NEC.

Note: CENELEC Zone I Certified version also available. Consult factory.



Ordering Information

Cable Connector Size	Available Entry Threads				Cable Bedding Dia. 'A'	Overall Cable Diameter 'B'	Armour Range ↑	Across Flats 'D'	Across Corners 'D'	Nominal Protrusion Length 'F'	NPT Catalog Number	Metric Catalog Number	PVC Shroud	Cable Connec-		
	Standard		'C'											Shroud Refe-		
	NPT	NPT	Metric	NPT	Metric	Max	Min	Max	Min	Max	Max	Wt. (Ozs)				
20S/16	1/2"	3/4"	M20	0.630	0.591	0.461	0.240	0.453	0	0.039	0.945	1.047	2.303	20S16C2KX1RA731	20S16C2KX1RA7	PVC04 4.65
20S	1/2"	3/4"	M20	0.630	0.591	0.461	0.374	0.626	0	0.039	0.945	1.047	2.303	20SC2KX1RA731	20SC2KX1RA7	PVC04 4.65
20	1/2"	3/4"	M20	0.630	0.591	0.551	0.492	0.823	0	0.039	1.201	1.311	2.382	20C2KX1RA731	20C2KX1RA7	PVC06 6.84
25S	3/4"	1"	M25	0.669	0.591	0.787	0.551	0.866	0	0.039	1.476	1.594	2.657	25C2KX1RA732	25C2KX1RA7	PVC09 10.78
25	3/4"	1"	M25	0.669	0.591	0.787	0.717	1.031	0	0.039	1.476	1.594	2.657	25C2KX1RA732	25C2KX1RA7	PVC09 10.78
32	1"	1-1/4"	M32	0.787	0.591	1.035	0.933	1.335	0	0.039	1.811	2.008	2.736	32C2KX1RA733	32C2KX1RA7	PVC11 16.49
40	1-1/4"	1-1/2"	M40	0.787	0.591	1.268	1.098	1.591	0	0.039	2.165	2.402	3.071	40C2KX1RA734	40C2KX1RA7	PVC15 23.89
50S	1-1/2"	2"	M50	0.787	0.591	1.504	1.386	1.839	0	0.039	2.362	2.618	2.972	50SC2KX1RA735	50SC2KX1RA7	PVC18 26.43
50	2"	2-1/2"	M50	0.906	0.591	1.736	1.591	2.091	0	0.039	2.756	3.094	3.169	50SC2KX1RA736	50C2KX1RA7	PVC21 36.79
63S	2"	2-1/2"	M63	0.906	0.591	1.969	1.795	2.339	0	0.039	2.953	3.276	3.602	63SC2KX1RA736	63SC2KX1RA7	PVC23 37.85
63	2-1/2"	3"	M63	0.984	0.591	2.205	2.150	2.594	0	0.039	3.150	3.504	3.622	63C2KX1RA737	63C2KX1RA7	PVC25 45.11
75S	2-1/2"	3"	M75	0.984	0.591	2.441	2.323	2.839	0	0.039	3.504	4.00	3.898	75SC2KX1RA737	75SC2KX1RA7	PVC28 65.55
75	3"	3-1/2"	M75	1.417	0.591	2.677	2.626	3.091	0	0.039	3.898	4.374	4.016	75C2KX1RA738	75C2KX1RA7	PVC30 89.87
90	3-1/2"	4"	M90	1.417	0.591	3.15	3.000	3.559	0	0.063	4.488	5.063	4.724	90C2KX1RA739	90C2KX1RA7	PVC32 128.63

All dimensions in inches.

Substitutions:

Full nickel plated brass - replace **RA7** with **RA5**.

316L stainless steel - replace **RA7** with **RA4**.

Adaptors and Reducers

Applications

- A wide range of Thread Conversion Adaptors and Reducers for both Industrial and Hazardous Area applications, providing a means of connection between cable entry devices and equipment having dissimilar threads.

Materials:

- **Adaptors and Reducers:** Available in a variety of materials and finishes including Brass, aluminum, stainless steel and non-metallic (e.g. nylon), with optional nickel plating of brass components.

Compliances/Approvals:

- Hazardous Area: ATEX 001284U (component)
- Equipment certification: ATEX 001003

The Hazardous Area versions can be supplied as Certified Components suitable for use on any Zone 1 or Zone 2 approved equipment having Flameproof Ex 'd', Increased Safety Ex 'e', or Non Incendive Ex 'n' / Ex 'nR' methods of protection. It should be noted that when using Component approved Thread Conversion Adaptors & Reducers in association with explosion protected electrical equipment the following basic rules must be observed in line with good engineering practice:

1. No more than one conversion adaptor or reducer should be used at one time on any given cable entry.

2. Stopping Plugs should be fitted directly into unused entries of the equipment, and not into an adaptor or reducer.

3. The female connection thread of a Thread Conversion Adaptor shall 'step' not more than one 'size' up from the male connection thread, or equal to one 'size' up in the case of a thread gender change.

Example: M20 (M) to M25 (F) or M20 (M) to 3/4" NPT (F) is permitted

Whereas M20 (M) to M32 (F) or M20 (M) to 1" NPT (F) is not permitted

Options:

- Nickel Plated Brass add suffix -5.
- 316 Stainless Steel add suffix -4.

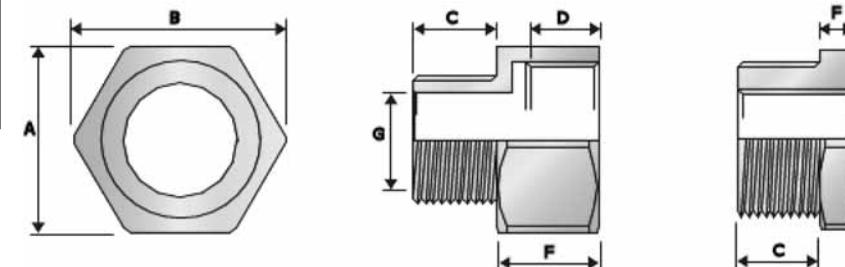


737 Series adaptor



737 Series reducer

Dimensions: (See Table B on following page)



Dimension Data Table

To obtain 737 Adaptor and & Reducer nominal dimensions, follow the steps below:

1. Select the male thread using the left hand column of Table A.
2. Select the female thread using the column headings of Table A and cross referencing the data with the male thread selection from Step 1. Identify the key reference number prefixed "A" for Adaptor or "R" for Reducer.

3. Using this key reference number, refer to the corresponding dimensions in Table B (on following page).

Note: The data in both tables include Adaptors and Reducers that are certified for use in Hazardous Areas. Dimensional data for other industrial versions is available upon request. Please contact Technical Support.

Standard Selection Table for Adaptors and Reducers

Male Thread			Female Thread														
Threads Per Inch	Pitch	Major Dia. (mm)	Size														
			M16	M20	M25	M32	M40	M50	M63	M75	5/8" ET	3/4" ET	1" ET	1-1/4" ET	1-1/2" ET	2" ET	2-1/2" ET
16.93	1.5	16	M16														
16.93	1.5	20	M20														
16.93	1.5	25	M25														
16.93	1.5	32	M32														
16.93	1.5	40	M40														
16.93	1.5	50	M50														
16.93	1.5	63	M63														
16.93	1.5	75	M75														
18	1.14	15.88	5/8" ET														
16	1.59	19.05	3/4" ET														
16	1.59	25.40	1" ET														
16	1.59	31.75	1-1/4" ET														
14	1.81	38.10	1-1/2" ET														
14	1.81	50.80	2" ET														
14	1.81	63.50	2-1/2" ET														
14	1.81	76.20	3" ET														
20	1.27	12.50	PG7														
18	1.41	15.20	PG9														
18	1.41	18.60	PG11														
18	1.41	20.40	PG13.5														
18	1.41	22.50	PG16														
16	1.59	28.30	PG21														
16	1.59	37.00	PG29														
16	1.59	47.00	PG36														
16	1.59	54.00	PG42														
16	1.59	59.30	PG48														
14	1.81	21.34	1/2" NPS (M)														
14	1.81	26.67	3/4" NPS (M)														
11-1/2	2.20	33.40	1" NPS (M)														
11-1/2	2.20	42.16	1-1/4" NPS (M)														
11-1/2	2.20	48.26	1-1/2" NPS (M)														
11-1/2	2.20	60.33	2" NPS (M)														
8	3.175	73.03	2-1/2" NPS (M)														
8	3.175	88.90	3" NPS (M)														
8	3.175	101.60	3-1/2" NPS (M)														
8	3.175	114.30	4" NPS (M)														
14	1.81	21.34	1/2" NPT														
14	1.81	26.67	3/4" NPT														
11-1/2	2.20	33.40	1" NPT														
11-1/2	2.20	42.16	1-1/4" NPT														
11-1/2	2.20	48.26	1-1/2" NPT														
11-1/2	2.20	60.33	2" NPT														
8	3.175	73.03	2-1/2" NPT														
8	3.175	88.90	3" NPT														
8	3.175	101.60	3-1/2" NPT														
8	3.175	114.30	4" NPT														
14	1.81	20.96	1/2" BSP														
14	1.81	22.91	5/8" BSP														
14	1.81	26.44	3/4" BSP														
11	2.31	33.25	1" BSP														
11	2.31	41.91	1-1/4" BSP														
11	2.31	47.80	1-1/2" BSP														
11	2.31	59.61	2" BSP														
11	2.31	75.18	2-1/2" BSP														
11	2.31	87.88	3" BSP														

 Certified adaptor

 Certified reducer

 Non-certified adaptor

Adaptors and Reducers

Male Size	Female Size	N'Plated Brass Part Number	Male Size	Female Size	N'Plated Brass Part Number	Male Size	Female Size	N'Plated Brass Part Number
M16	M16	737DM1M15	M75	M16	737DM8M15	2" NPT	M16	737DT6M15
M16	M20	737DM1M25	M75	M20	737DM8M25	2" NPT	M20	737DT6M25
M16	M25	737DM1M35	M75	M25	737DM8M35	2" NPT	M25	737DT6M35
M16	1/2" NPT	737DM1T15	M75	M32	737DM8M45	2" NPT	M32	737DT6M45
M16	3/4" NPT	737DM1T25	M75	M40	737DM8M55	2" NPT	M40	737DT6M55
M20	M16	737DM2M15	M75	M50	737DM8M65	2" NPT	M50	737DT6M65
M20	M20	737DM2M25	M75	M63	737DM8M75	2" NPT	M63	737DT6M75
M20	M25	737DM2M35	M75	M75	737DM8M85	2" NPT	M75	737DT6M85
M20	1/2" NPT	737DM2T15	M75	1/2" NPT	737DM8T15	2" NPT	1/2" NPT	737DT6T15
M20	3/4" NPT	737DM2T25	M75	3/4" NPT	737DM8T25	2" NPT	3/4" NPT	737DT6T25
M25	M16	737DM3M15	M75	1" NPT	737DM8T35	2" NPT	1" NPT	737DT6T35
M25	M20	737DM3M25	M75	1-1/4" NPT	737DM8T45	2" NPT	1-1/4" NPT	737DT6T45
M25	M25	737DM3M35	M75	1-1/2" NPT	737DM8T55	2" NPT	1-1/2" NPT	737DT6T55
M25	M32	737DM3M45	M75	2" NPT	737DM8T65	2" NPT	2" NPT	737DT6T65
M25	1/2" NPT	737DM3T15	M75	2-1/2" NPT	737DM8T75	2" NPT	2-1/2" NPT	737DT6T75
M25	3/4" NPT	737DM3T25	M75	3" NPT	737DM8T85	2-1/2" NPT	M16	737DT7M15
M25	1" NPT	737DM3T35	1/2" NPT	M16	737DT1M15	2-1/2" NPT	M20	737DT7M25
M32	M16	737DM4M15	1/2" NPT	M20	737DT1M25	2-1/2" NPT	M25	737DT7M35
M32	M20	737DM4M25	1/2" NPT	M25	737DT1M35	2-1/2" NPT	M32	737DT7M45
M32	M25	737DM4M35	1/2" NPT	1/2" NPT	737DT1T15	2-1/2" NPT	M40	737DT7M55
M32	M32	737DM4M45	1/2" NPT	3/4" NPT	737DT1T25	2-1/2" NPT	M50	737DT7M65
M32	M40	737DM4M55	3/4" NPT	M16	737DT2M15	2-1/2" NPT	M63	737DT7M75
M32	1/2" NPT	737DM4T15	3/4" NPT	M20	737DT2M25	2-1/2" NPT	M75	737DT7M85
M32	3/4" NPT	737DM4T25	3/4" NPT	M25	737DT2M35	2-1/2" NPT	1/2" NPT	737DT7T15
M32	1" NPT	737DM4T35	3/4" NPT	M32	737DT2M45	2-1/2" NPT	3/4" NPT	737DT7T25
M32	1-1/4" NPT	737DM4T45	3/4" NPT	1/2" NPT	737DT2T15	2-1/2" NPT	1" NPT	737DT7T35
M40	M16	737DM5M15	3/4" NPT	3/4" NPT	737DT2T25	2-1/2" NPT	1-1/4" NPT	737DT7T45
M40	M20	737DM5M25	3/4" NPT	1" NPT	737DT2T35	2-1/2" NPT	1-1/2" NPT	737DT7T55
M40	M25	737DM5M35	1" NPT	M16	737DT3M15	2-1/2" NPT	2" NPT	737DT7T65
M40	M32	737DM5M45	1" NPT	M20	737DT3M25	2-1/2" NPT	2-1/2" NPT	737DT7T75
M40	M40	737DM5M55	1" NPT	M25	737DT3M35	2-1/2" NPT	3" NPT	737DT7T85
M40	M50	737DM5M65	1" NPT	M32	737DT3M45	3" NPT	M16	737DT8M15
M40	1/2" NPT	737DM5T15	1" NPT	M40	737DT3M55	3" NPT	M20	737DT8M25
M40	3/4" NPT	737DM5T25	1" NPT	1/2" NPT	737DT3T15	3" NPT	M25	737DT8M35
M40	1" NPT	737DM5T35	1" NPT	3/4" NPT	737DT3T25	3" NPT	M32	737DT8M45
M40	1-1/4" NPT	737DM5T45	1" NPT	1" NPT	737DT3T35	3" NPT	M40	737DT8M55
M40	1-1/2" NPT	737DM5T55	1" NPT	1-1/4" NPT	737DT3T45	3" NPT	M50	737DT8M65
M50	M16	737DM6M15	1-1/4" NPT	M16	737DT4M15	3" NPT	M63	737DT8M75
M50	M20	737DM6M25	1-1/4" NPT	M20	737DT4M25	3" NPT	M75	737DT8M85
M50	M25	737DM6M35	1-1/4" NPT	M25	737DT4M35	3" NPT	1/2" NPT	737DT8T15
M50	M32	737DM6M45	1-1/4" NPT	M32	737DT4M45	3" NPT	3/4" NPT	737DT8T25
M50	M40	737DM6M55	1-1/4" NPT	M40	737DT4M55	3" NPT	1" NPT	737DT8T35
M50	M50	737DM6M65	1-1/4" NPT	M50	737DT4M65	3" NPT	1-1/4" NPT	737DT8T45
M50	M63	737DM6M75	1-1/4" NPT	1/2" NPT	737DT4T15	3" NPT	1-1/2" NPT	737DT8T55
M50	1/2" NPT	737DM6T15	1-1/4" NPT	3/4" NPT	737DT4T25	3" NPT	2" NPT	737DT8T65
M50	3/4" NPT	737DM6T25	1-1/4" NPT	1" NPT	737DT4T35	3" NPT	2-1/2" NPT	737DT8T75
M50	1" NPT	737DM6T35	1-1/4" NPT	1-1/4" NPT	737DT4T45	3" NPT	3" NPT	737DT8T85
M50	1-1/4" NPT	737DM6T45	1-1/4" NPT	1-1/2" NPT	737DT4T55	1-1/2" NPT	M16	737DT5M15
M50	1-1/2" NPT	737DM6T55	1-1/2" NPT	M20	737DT5M25	1-1/2" NPT	M20	737DT5M25
M50	2" NPT	737DM6T65	1-1/2" NPT	M25	737DT5M35	1-1/2" NPT	M32	737DT5M45
M63	M16	737DM7M15	1-1/2" NPT	M32	737DT5M45	1-1/2" NPT	M40	737DT5M55
M63	M20	737DM7M25	1-1/2" NPT	M40	737DT5M55	1-1/2" NPT	M50	737DT5M65
M63	M25	737DM7M35	1-1/2" NPT	M50	737DT5M65	1-1/2" NPT	M63	737DT5M75
M63	M32	737DM7M45	1-1/2" NPT	M63	737DT5M75	1-1/2" NPT	1/2" NPT	737DT5T15
M63	M40	737DM7M55	1-1/2" NPT	1/2" NPT	737DT5T15	1-1/2" NPT	3/4" NPT	737DT5T25
M63	M50	737DM7M65	1-1/2" NPT	3/4" NPT	737DT5T25	1-1/2" NPT	1-1/4" NPT	737DT5T45
M63	M63	737DM7M75	1-1/2" NPT	1" NPT	737DT5T35	1-1/2" NPT	1-1/2" NPT	737DT5T55
M63	M75	737DM7M85	1-1/2" NPT	1-1/4" NPT	737DT5T45	1-1/2" NPT	2" NPT	737DT5T65
M63	1/2" NPT	737DM7T15	1-1/2" NPT	1-1/4" NPT	737DT5T45	1-1/2" NPT	2-1/2" NPT	737DT5T75
M63	3/4" NPT	737DM7T25	1-1/2" NPT	1-1/2" NPT	737DT5T55	1-1/2" NPT	3" NPT	737DT5T85
M63	1" NPT	737DM7T35	1-1/2" NPT	2" NPT	737DT5T65	1-1/2" NPT	3" NPT	737DT5T85
M63	1-1/4" NPT	737DM7T45						
M63	1-1/2" NPT	737DM7T55						
M63	2" NPT	737DM7T65						
M63	2-1/2" NPT	737DM7T75						

Stopper Plugs



Class I, Div.2,
Type 4X; Exd/Exe IP68



Applications

- A comprehensive range of Stopper Plugs which are designed to close any unused entries in electrical equipment. In general care should be taken to ensure that a suitable Entry Thread Sealing Washer is also selected and installed, where applicable, to ensure that an effective seal is made at the entry, thereby maintaining the integrity of the enclosure or equipment I.P. rating.

Features

- Catering to both Industrial and Hazardous Area applications the range covers a number of different design types which are supplied in both metallic and non-metallic (e.g. Nylon) forms.

Materials:

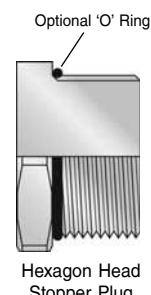
- *Stopper plugs:* Available in brass, aluminum, stainless steel and non-metallic nylon. Optional nickel plating of brass components also available.

Compliances/Approvals:

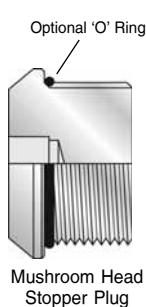
- Hazardous Area certification: ATEX 001284U (component).
- Equipment certification: ATEX 001003.

747 Series Stopper Plug			
Plug Size	A/F Socket in mm	747 SERIES Male Size	N'Plated Brass Part Number
M16	8	M16	747FAM15
		M20	747FAM25
M20	10	M25	747FAM35
		M32	747FAM45
M25	10	M40	747FAM55
		M50	747FAM65
M32	10	M63	747FAM75
		M75	747FAM85
M40	10	M90	747FAM95
		1/2"NPT	747FAT15
M50	10	3/4"NPT	747FAT25
		1"NPT	747FAT35
M63	14	1-1/4"NPT	747FAT45
		1-1/2"NPT	747FAT55
M75	14	2"NPT	747FAT65
		3"NPT	747FAT75
		3-1/2"NPT	747FAT85

757 Series Stopper Plug		
Plug Size	757 SERIES Male Size	N'Plated Brass Part Number
M16	M16	757DM15
	M20	757DM25
M20	M25	757DM35
	M32	757DM45
M25	M40	757DM55
	M50	757DM65
M32	M63	757DM75
	M75	757DM85
M40	M90	757DM95
	1/2"NPT	757DT15
M50	3/4"NPT	757DT25
	1"NPT	757DT35
M63	1-1/4"NPT	757DT45
	1-1/2"NPT	757DT55
M75	2"NPT	757DT65
	3"NPT	757DT75
	3-1/2"NPT	757DT85



Stopper Plugs



Mushroom Head Stopper Plug

767 Series Stopper Plug

Plug Size	A/F Socket in mm	767 Series Male Size	N'Plated Brass Part Number	Nylon Part Number
M16	6	M16	767DM15	767ERM12
		M20	767DM25	767ERM22
	8	M25	767DM35	767ERM32
		M32	767DM45	767ERM42
	10	M40	767DM55	767ERM52
		M50	767DM65	767ERM62
	10	M63	767DM75	767ERM72
		M75	767DM85	767ERM82
	10	M90	767DM95	767ERM92
		1/2"NPT	767DT15	767ERT12
M50	10	3/4"NPT	767DT25	767ERT22
		1"NPT	767DT35	767ERT32
	10	1-1/4"NPT	767DT45	767ERT42
		1-1/2"NPT	767DT55	767ERT52
	10	2"NPT	767DT65	767ERT62
M63	10	3"NPT	767DT75	767ERT72
		3-1/2"NPT	767DT85	767ERT82
—	10			

Available Stopper Plug Options

Description	Allen Key Slot	Metallic		Non-Metallic	
		Ex 'd'	Ex 'e'	Industrial	Ex 'e'
747 Recessed Non-Tamper Proof Type 'A'	✓	✓	X	X	✓
747 Recessed Tamper Proof Type 'B'	✓	✓	X	X	✓
757 Hexagon Head	X	✓	✓	✓	✓
757 Hexagon Head c/w 'O' ring seal	X	✓	✓	✓	✓
767 Mushroom Head	✓	✓	✓	✓	✓
767 Mushroom Head c/w 'O' ring seal	✓	✓	✓	✓	✓

Cable Gland Accessories and Tools

Locknuts – Nickel Plated Brass

Brass Locknuts are recommended for use in securing brass cable glands to a gland plate or into equipment.



Cat. No.	Description	Box Quantity	Cat. No.	Description	Box Quantity
20LN5	M20	100	050NPTLN5	050NPT	100
25LN5	M25	100	075NPTLN5	075NPT	100
32LN5	M32	50	100NPTLN5	100NPT	50
40LN5	M40	50	125NPTLN5	125NPT	50
50LN5	M50	10	150NPTLN5	150NPT	10
63LN5	M63	5	200NPTLN5	200NPT	5
75LN5	M75	5	250NPTLN5	250NPT	5
90LN5	M90	1	300NPTLN5	300NPT	1
			350NPTLN5	350NPT	1

Earth Tags – Pear (Nickel Plated Brass)

Installed between the cable gland and equipment. Provide an earth bond connection as specified in BS 6121 : Part 5 : 1993.



Cat. No.	Description	Box Quantity	Cat. No.	Description	Box Quantity
20ET5	M20	100	050NPTLN5	050NPT	100
25ET5	M25	100	075NPTLN5	075NPT	100
32ET5	M32	50	100NPTLN5	100NPT	50
40ET5	M40	50	125NPTLN5	125NPT	50
50ET5	M50	10	150NPTLN5	150NPT	10
63ET5	M63	5	200NPTLN5	200NPT	5
75ET5	M75	5	250NPTLN5	250NPT	5
90ET5	M90	1	300NPTLN5	300NPT	1
			350NPTLN5	350NPT	1

Entry Thread Seals – Sealing (IP) Washers

It is essential to maintain the integrity of the degree of I.P. protection at which Explosion Proof equipment has been rated. The need for a Sealing Washer will depend on the I.P. rating, code of protection and the type of entry holes available within that equipment (e.g. for Ex e apparatus or terminal boxes which are permitted to have untapped through clearance holes it is necessary to fit a sealing washer to ensure that the minimum IP54 requirement is met). Other equipment with tapped entry holes may not require a sealing washer to maintain the rated integrity of the installation. Entry Thread Sealing Washers are produced in 2mm thick white nylon as standard which are recommended and meet the specified requirements of Shell's Offshore operations.

To verify the effectiveness of the nylon entry sealing washers, independent 3rd party tests to BS EN 60529:1992 have been conducted on certain Cable Gland types at IP66, IP67 & IP68 levels of protection. Documentation of these high standard tests is available upon request.



Cat. No.	Description	Box Quantity	Cat. No.	Description	Box Quantity
20ETS2	M20	1000	050NPTETS	50NPT	100
25ETS2	M25	1000	075NPTETS	75NPT	100
32ETS2	M32	500	100NPTETS	100NPT	50
40ETS2	M40	200	125NPTETS	125NPT	50
50ETS2	M50	200	150NPTETS	150NPT	10
63ETS2	M63	100	200NPTETS	200NPT	5
75ETS2	M75	100	250NPTETS	250NPT	5
90ETS2	M90	10	300NPTETS	300NPT	1
			350NPTETS	350NPT	1

Serrated Washers – Stainless Steel

Available in Plated Steel or Stainless Steel as standard, these "shake-proof" Serrated Washers fitted internally to the equipment and before a locknut act as an anti-vibration device to prevent the gland and locknut arrangement from inadvertently loosening in service.



Cat. No.	Description	Box Quantity	Cat. No.	Description	Box Quantity
20SW4	M20	500	050NPTSW4	50NPT	100
25SW4	M25	500	075NPTSW4	75NPT	100
32SW4	M32	200	100NPTSW4	100NPT	50
40SW4	M40	100	125NPTSW4	125NPT	50
50SW4	M50	100	150NPTSW4	150NPT	10
63SW4	M63	50	200NPTSW4	200NPT	5
75SW4	M75	50	250NPTSW4	250NPT	5
90SW4	M90	10	300NPTSW4	300NPT	1
			350NPTSW4	350NPT	1

Shrouds

Push on shrouds are used to minimise the risk of dirt or foreign substances gathering on the Cable Gland body, and/or point of cable to gland interface. Standard shrouds are produced in Black PVC. Refer to the specific cable gland page.



Service Entrance Heads

Threaded Entrance Caps in Malleable Iron or Aluminum.

Applications

- Designed for overhead service entrance to buildings to prevent rain from entering conduit.

Features

- Simple construction; easy to install.
- Weather resistant.
- Variety of knockouts allows use with different sizes and numbers of wires.
- Cat. No. F125 thru F250 have exclusive snap-on covers.

Standard Materials

- All bodies and caps are malleable iron except for F125 thru F250 which are aluminum.
- Phenolic insulators.

Standard Finish

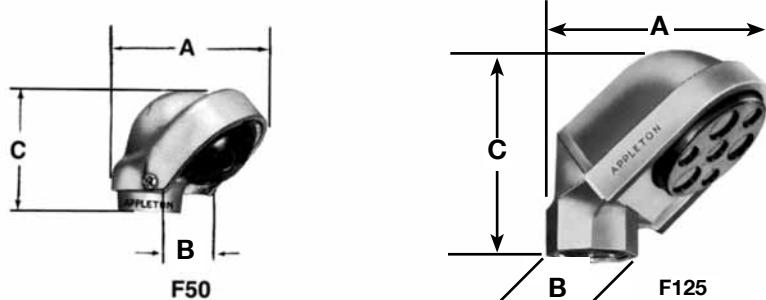
- Triple coat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat.
- Aluminum: natural finish.

Size Range

- 1/2" thru 2 1/2".
- 5" thru 6".

Compliances

- UL Standard 514B.
- CSA Standard C22.2 No. 18.



F500-3

Catalog Number	Size (In.)	Number and Dia. of Holes	Dimensions (In.)
			A B C
Malleable Iron Threaded Entrance Caps			
F50	1/2	(4) 5/16"	2-3/4 2-5/32 2-9/32
F75	3/4	(3) 13/32" and (2) 3/8"	3-5/32 2-9/32 2-15/32
F100	1	(3) 1/2" and (2) 7/16"	3-13/16 2-21/32 2-29/32
Aluminum Threaded Entrance Caps with Exclusive "Snap-On" Cover			
F125	1-1/4	(3) 5/8" and (2) 7/16"	4-5/16 2-7/8 3-5/8
F150	1-1/2	(3) 3/4", (2) 19/32" and (1) 7/16"	5 3-5/16 4-11/32
F200	2	(3) 1", (2) 3/4" and (1) 17/32"	6-11/32 4-1/2 5-9/16
F250	2-1/2	(3) 1-5/16", (3) 7/8" and (1) 1"	9 6-1/4 7-3/4
Malleable Iron Threaded Entrance Caps			
F500-3	5	(3) 1-31/32"	13 10-1/4 14-7/8
F500-4†	5	(4) 1-21/32"	13 10-1/4 14-7/8
F500-6†	5	(6) 1-15/32"	13 10-1/4 14-7/8
F600-3†	6	(3) 2-3/16"	15-3/8 13-1/8 18-1/4
F600-4†	6	(4) 2-3/32"	15-3/8 13-1/8 18-1/4
F600-6†	6	(6) 1-21/32"	15-3/8 13-1/8 18-1/4

† Not UL Listed

Expansion Couplings and Bonding Jumpers for Rigid Metal Conduit

Available for 4-inch or 8-inch conduit movement.

Applications

- To accommodate linear movement of conduit installations caused by thermal expansion and contraction and by structural shift.

Features

- Weatherproof.
- Concrete tight.
- Durable construction.
- Corrosion resistant finish.
- UL listed and CSA Certified with bonding jumpers in indoor and outdoor locations.

Standard Materials

- Fitting body and cap—malleable iron.
- Grounding ring—braided and tinned copper wire.
- Packing seal—lubricated textile fiber.
- Bushing—phenolic plastic.
- Washer—zinc plated steel.
- Gasket—fiber stock.
- Body (6" size only)—zinc plated steel.

Standard Finishes

- Fitting body and cap—hot dipped galvanized.
- Other components parts—see standard materials information.

Size Range

- 1/2" thru 5", 4" conduit movement.
- 1/2" thru 6", 8" conduit movement.

Compliances

- UL 514B
- CSA C22.2 Number 18
- Federal spec WF-408E
- NEMA FB1

Bonding Jumpers

Applications

- To ensure bonding and grounding continuity between segmented rigid metal conduit runs and for use with expansion couplings as required by NEC 250.98.

Standard Materials/Finishes

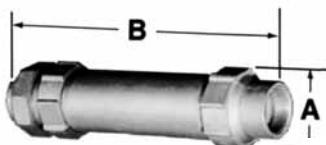
- Clamps—malleable iron, hot dipped zinc galvanized.
- Strap—copper braid, tin plated.
- Hardware—steel, mechanical zinc plated.

Size Range

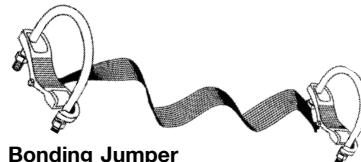
- 1/2" thru 6" conduit sizes.



1/2"-5" XJ Expansion Coupling



6" XJ Expansion Coupling



Bonding Jumper

"XJ" Expansion Couplings				Use with Bonding Jumper	
Trade Size (In.)	Catalog Number	Dimensions in inches		Catalog Number	Strap Length (In.)
4 Inch Movement					
1/2	XJ504	2	6-1/4	BJ45075	20
3/4	XJ754	2-1/4	6-3/8	BJ45075	20
1	XJ1004	2-5/8	6-5/8	BJ41012	20
1-1/4	XJ1254	3-1/8	6-5/8	BJ41012	20
1-1/2	XJ1504	3-1/2	6-5/8	BJ41520	20
2	XJ2004	4	7-1/8	BJ41520	20
2-1/2	XJ2504	4-1/2	7-1/2	BJ42530	24
3	XJ3004	5-3/8	8-1/8	BJ42530	24
3-1/2	XJ3504	6	8-1/2	BJ43540	24
4	XJ4004	6-5/8	8-5/8	BJ43540	24
5	XJ5004	8	9-1/2	BJ45060	24
8 Inch Movement					
1/2	XJ508	2	10-1/4	BJ85075	25
3/4	XJ758	2-1/4	10-3/8	BJ85075	25
1	XJ1008	2-5/8	10-5/8	BJ81012	25
1-1/4	XJ1258	3-1/8	10-5/8	BJ81012	25
1-1/2	XJ1508	3-1/2	10-5/8	BJ81520	25
2	XJ2008	4	11-1/8	BJ81520	25
2-1/2	XJ2508	4-1/2	11-1/2	BJ82530	29
3	XJ3008	5-3/8	12-1/8	BJ82530	29
3-1/2	XJ3508	6	12-1/2	BJ83540	29
4	XJ4008	6-5/8	12-5/8	BJ83540	29
5	XJ5008	8	13-1/2	BJ85060	29
6	XJ6008	9-1/2	15-3/8	BJ85060	29

Deflection and Expansion Couplings for RMC and IMC

Applications

- These couplings, for rigid metal conduit or IMC will provide a flexible and watertight connection for protection from damage due to any type movement.
- For installation indoors, outdoors, buried underground or in concrete (center of fitting is to be in the center of the joint between two sections of concrete).

Features

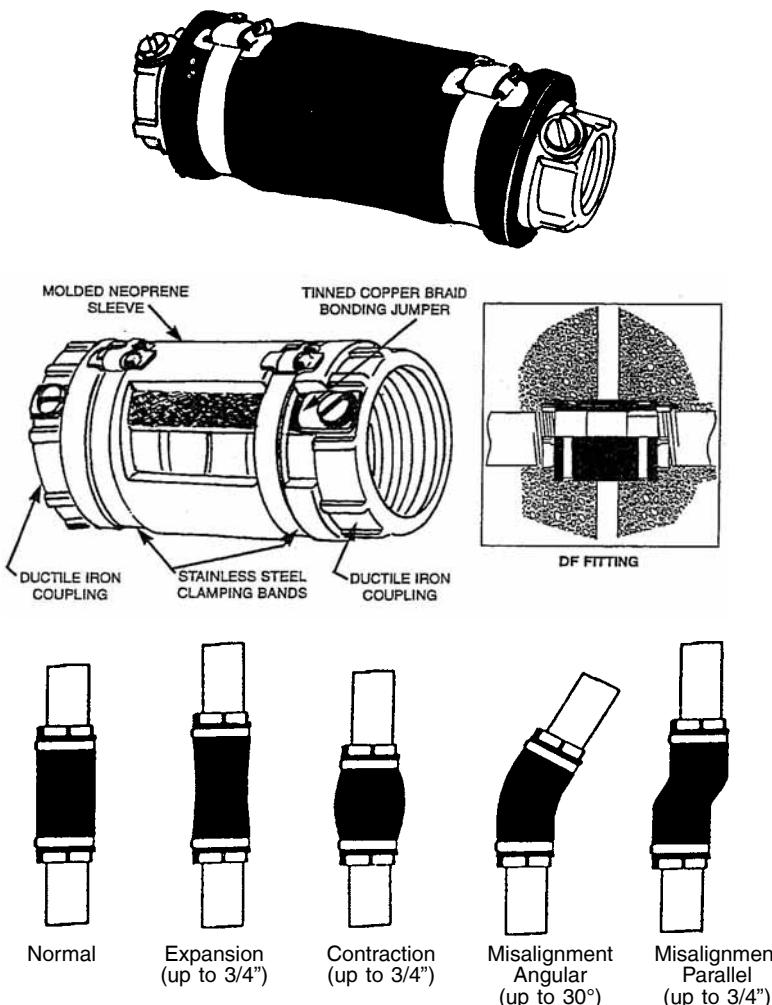
- Designed for linear expansion (up to 3/4") or contraction (up to 3/4") of conduit or for misalignment of axes of coupled conduit runs in any direction angular (up to 30°) or parallel (up to 3/4").
- Dampens vibrations between two sections of coupled conduit. The internal copper bonding jumper has the capacity to carry ground fault currents equal to the conductor sizes required by UL and the NEC.

Standard Materials

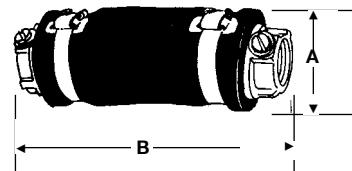
- Hot-dip galvanized finished ductile iron couplings.
- Molded Neoprene sleeve.
- Tinned flexible copper braid bonding jumper.
- Stainless steel clamping bands.

Compliances

- Watertight (NEMA 4), raintight and concretetight.
- U.L. Listed, File No. E14814.



Catalog Number	Size (In.)	Dimensions (In.)	
		A	B
DF-50	1/2	2-3/8	6-3/4
DF-75	3/4	2-3/8	6-3/4
DF-100	1	2-3/4	7-1/4
DF-125	1-1/4	3	7-3/8
DF-150	1-1/2	3-3/8	7-3/8
DF-200	2	3-7/8	8-1/8
DF-250	2-1/2	4-1/4	8-1/8
DF-300	3	5	8-3/4
DF-350	3-1/2	6-3/8	9-1/4
DF-400	4	6-3/8	9-1/4
DF-500	5	7-1/2	9-1/4
DF-600	6	8-3/8	9-1/4



Class I, Div. 2
Class II, Div. 1 and 2
Class III
NEC 501-4(b), 502-4(a)(b),
503-3(a)

Applications

- Uni-seal conduit hubs are used for installing threaded rigid and IMC conduit systems into sheet metal enclosures, eliminating the need for welded hubs.

Features

- Patented (space saving) hex-hub wedge adaptor fits nearly flush against inside walls of enclosures.
- Single wrench installation, simple two-piece construction.
- Protective flame-resistant insulated throat eliminates any need for end bushings.
- Locking edge of body bites into enclosure wall, makes hub self-locking, eliminates the need for lock-nuts, provides continuous 360° pressure on both sides of enclosure, forms positive grounding and vibration-resistant connection.
- Built-in recessed neoprene gasket.
- Full, machined tapered threads (NPT).

Standard Materials

- HUB-50 thru HUB-100; steel.
- HUB-125 thru HUB-600 and HUB-9050 thru HUB-90100; malleable iron.

Standard Finishes

- Steel—zinc electroplate.
- Malleable iron: triple coat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat.

Size Range

- Straight: 1/2" thru 6" (hub) size.
- 90°: 1/2" thru 1" (hub) size.

Compliances

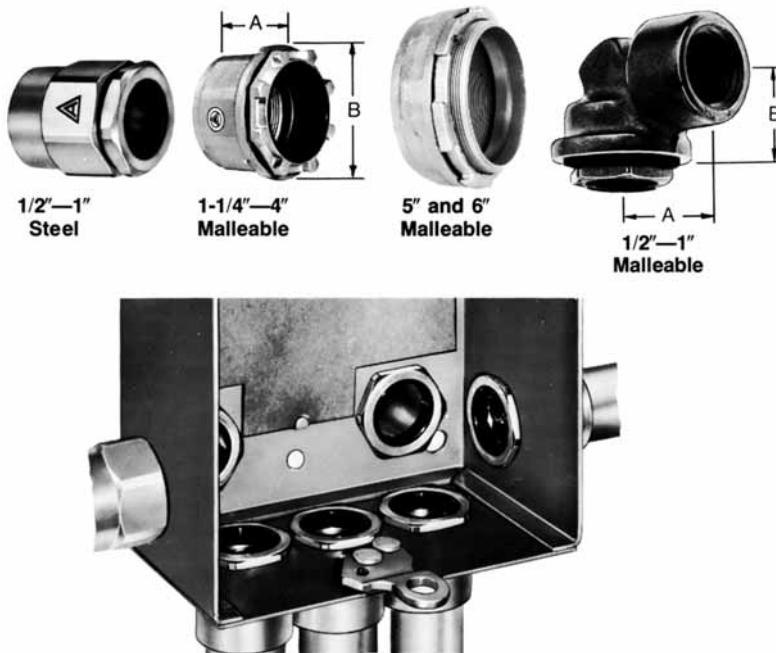
- UL Standard 514B.
- CSA Standard C22.2 No. 18.
- Suitable for hazardous locations

Class I, Div. 2

Class II, Div. 1 and 2

Class III, Div. 1 and 2

NEC 501-4(b), 502-4(a)(b), 503-3(a)

Conduit Hubs for Threaded RMC and IMC

Catalog Number*	Size (In.)	Hole Dia.(In.) Min. Max.	Wall Thickness (In.) Min. Max.	Dimension (In.) A B
Straight				
HUB-50	1/2	7/8 15/16 31/32	1/16 3/32 1/4	1-5/64 1-7/64
HUB-75	3/4	1-3/32 1-5/32 1-7/32	1/16 3/32 1/4	1-7/64 1-3/8
HUB-100	1	1-11/32 1-13/32 1-15/32	1/16 3/32 1/4	1-1/4 1-23/32
HUB-125	1-1/4	1-11/16 1-25/32 1-27/32	1/16 3/32 5/16	1-51/64 2-5/16
HUB-150	1-1/2	1-15/16 2-1/32 2-3/32	1/16 3/32 5/16	1-53/64 2-5/8
HUB-200	2	2-25/64 2-17/32 2-19/32	1/16 3/32 5/16	1-7/8 3-1/8
HUB-250	2-1/2	2-57/64 3-1/64	3/32 5/16	2-25/64 3-5/8
HUB-300	3	3-33/64 3-41/64	3/32 5/16	2-31/64 4-5/16
HUB-350	3-1/2	4-1/64 4-1/8	3/32 5/16	2-9/16 4-13/16
HUB-400	4	4-33/64 4-5/8	3/32 5/16	2-5/8 5-7/16
HUB-500	5	5-19/32 5-13/16	1/8 3/4	2-1/16 6-5/8
HUB-600	6	6-21/32 6-7/8	1/8 3/4	2-1/16 7-11/16
90°—Malleable Iron				
HUB-90 50	1/2	7/8 15/16 31/32	1/16 3/32 1/4	1-9/32 7/8
HUB-90 75	3/4	1-3/32 1-5/32 1-7/32	1/16 3/32 1/4	1-7/16 15/16
HUB-90 100	1	1-11/32 1-13/32 1-15/32	1/16 3/32 1/4	1-5/8 1-1/8

* Available with PVC Coating—Consult factory.

U.S. Patent 3,055,683
Canada Patent 708,255

Pulling Fittings for Threaded RMC and IMC

Applications

- For use at intermediate locations to facilitate wire pulling through long runs of rigid conduit.
- For wet (PBFW Weatherproof) or dry (PBF non-weatherproof) locations.
- For vertical or horizontal runs of rigid conduit.

Features

- Convenient and economical wire pulling.
- Provides safe ground continuity.
- Type PBFW (Weatherproof) connector fitting consists of two end bushings—one threaded, one precision bored with three set-screws, braided grounding ring, washer packing gland and insulating bushing.
- Type PBF (non-weatherproof) same as PBFW except without braided grounding ring, washer and braided packing ring.

Standard Materials

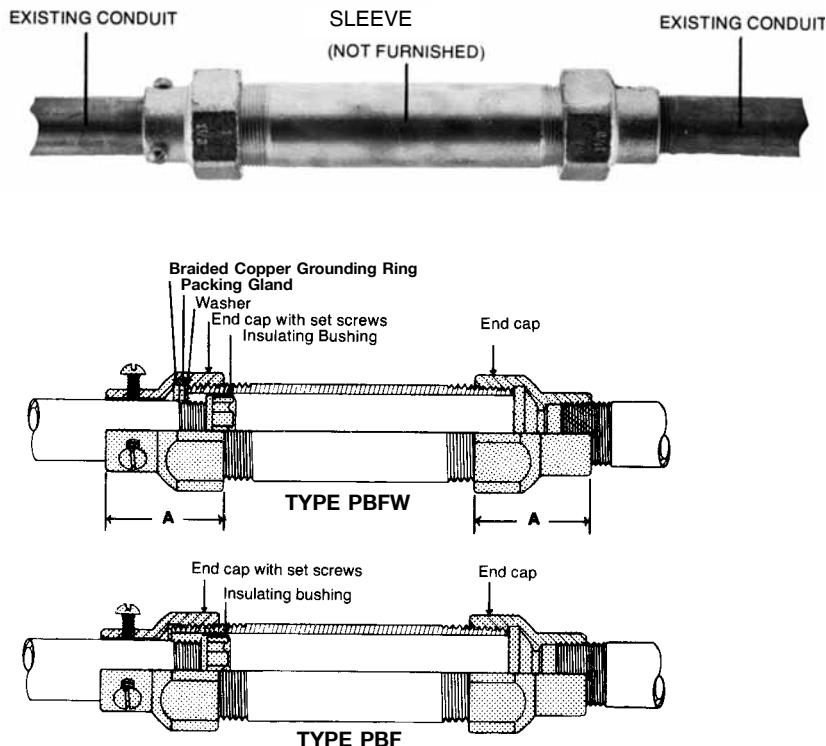
- End bushings are malleable iron finished with zinc electroplate, dichromate and epoxy powder coat.
- Setscrews are steel finished with zinc electroplate.
- Grounding ring is a preformed braided copper packing.
- Washer is steel finished with zinc electroplate.
- Insulating bushing is polypropylene.
- Packing Gland for PBFW Series is a preformed braided ring.

Size Range

- 1/2" through 4" trade (hub) size.

Compliances

- N.E.C. article 370-18(a)(1).



Catalog Number	Size (In.)	Dimension (In.) A	Trade Size of Sleeve,† (In.)	Catalog Number	Size (In.)	Dimension (In.) A	Trade Size of Sleeve,† (In.)
Weatherproof							
PBFW-50	1/2	1-5/8	1	PBF-50	1/2	1-5/8	1
PBFW-75	3/4	2	1-1/4	PBF-75	3/4	2	1-1/4
PBFW-100	1	2-3/32	1-1/2	PBF-100	1	2-3/32	1-1/2
PBFW-125	1-1/4	2-3/8	2	PBF-125	1-1/4	2-3/8	2
PBFW-150	1-1/2	2-1/2	2-1/2	PBF-150	1-1/2	2-1/2	2-1/2
PBFW-200	2	2-21/32	3	PBF-200	2	2-21/32	3
PBFW-250	2-1/2	3-25/32	3-1/2	PBF-250	2-1/2	3-25/32	3-1/2
PBFW-300	3	3-1/16	4	PBF-300	3	3-1/16	4
PBFW-350	3-1/2	3-3/8	5	PFB-350	3-1/2	3-3/8	5
PBFW-400	4	3-3/8	5	PBF-400	4	3-3/8	5

† Use length of sleeve as required.

† Use length of sleeve as required.

**Class I, Groups A,B,C,D
Class II, Groups E,F,G
Class III**

Reducing Bushings for Threaded RMC and IMC

Applications

- RB reducing bushings are designed to reduce conduit hubs to a smaller size and are used in threaded rigid and IMC conduit systems.

Features

- Smooth, rounded integral bushing protects conductor insulation.
- Full, machined tapered threads (NPT).

Standard Materials

- RB50-13 thru RB200-150: Steel.
- RB250-100 thru RB600-500: Malleable Iron.
- RB50-13A thru RB600-500A: Aluminum

Standard Finishes

- Steel bushings: zinc electroplate.
- Malleable iron bushings: zinc electroplate, dichromate and epoxy powder coating.
- Aluminum bushings: natural finish.

Compliances

- UL Standards 514B and 886.
- CSA Standard C22.2 No. 18, C22.2 No. 30-M1986.



Catalog Number	Size (In.)	Catalog Number	Size (In.)
Steel		Aluminum	
RB50-13*	1/2 - 1/8	RB50-13A*	1/2 - 1/8
RB50-25*	1/2 - 1/4	RB50-25A*	1/2 - 1/4
RB50-38*	1/2 - 3/8	RB50-38A*	1/2 - 3/8
RB75-50	3/4 - 1/2	RB75-50A	3/4 - 1/2
RB100-50	1 - 1/2	RB100-50A	1 - 1/2
RB100-75	1 - 3/4	RB100-75A	1 - 3/4
RB125-50	1-1/4 - 1/2	RB125-50A	1-1/4 - 1/2
RB125-75	1-1/4 - 3/4	RB125-75A	1-1/4 - 3/4
RB125-100	1-1/4 - 1	RB125-100A	1-1/4 - 1
RB150-50	1-1/2 - 1/2	RB150-50A	1-1/2 - 1/2
RB150-75	1-1/2 - 3/4	RB150-75A	1-1/2 - 3/4
RB150-100	1-1/2 - 1	RB150-100A	1-1/2 - 1
RB150-125	1-1/2 - 1-1/4	RB150-125A	1-1/2 - 1-1/4
RB200-50	2 - 1/2	RB200-50A	2 - 1/2
RB200-75	2 - 3/4	RB200-75A	2 - 3/4
RB200-100	2 - 1	RB200-100A	2 - 1
RB200-125	2 - 1-1/4	RB200-125A	2 - 1-1/4
RB200-150	2 - 1-1/2	RB200-150A	2 - 1-1/2
Malleable Iron			
RB250-100	2-1/2 - 1	RB250-100A	2-1/2 - 1
RB250-125	2-1/2 - 1-1/4	RB250-125A	2-1/2 - 1-1/4
RB250-150	2-1/2 - 1-1/2	RB250-150A	2-1/2 - 1-1/2
RB250-200	2-1/2 - 2	RB250-200A	2-1/2 - 2
RB300-100	3 - 1	RB300-100A	3 - 1
RB300-125	3 - 1-1/4	RB300-125A	3 - 1-1/4
RB300-150	3 - 1-1/2	RB300-150A	3 - 1-1/2
RB300-200	3 - 2	RB300-200A	3 - 2
RB300-250	3 - 2-1/2	RB300-250A	3 - 2-1/2
RB350-200	3-1/2 - 2	RB350-200A	3-1/2 - 2
RB350-250	3-1/2 - 2-1/2	RB350-250A	3-1/2 - 2-1/2
RB350-300	3-1/2 - 3	RB350-300A	3-1/2 - 3
RB400-200	4 - 2	RB400-200A	4 - 2
RB400-250	4 - 2-1/2	RB400-250A	4 - 2-1/2
RB400-300	4 - 3	RB400-300A	4 - 3
RB400-350	4 - 3-1/2	RB400-350A	4 - 3-1/2
RB500-350†	5 - 3-1/2	RB500-350A†	5 - 3-1/2
RB500-400†	5 - 4	RB500-400A†	5 - 4
RB600-400†	6 - 4	RB600-400A†	6 - 4
RB600-500†	6 - 5	RB600-500A†	6 - 5

Shaded area indicates items suitable for Class I, Group A in addition to Class I, Groups B,C,D; Class II, Groups E,F,G and Class III.

† Class I, Groups C,D; Class II, E,F,G; Class III. * Not UL Listed.

K-Clamps for RMC or IMC

Applications

- Designed to secure RMC, IMC or EMT across, parallel or perpendicular to channel, beam and angle supports.

Features

- Three styles meet every installation need.
- Heavy duty U-bolts, hex bolts and hex nuts.
- Capable of supporting heavy loads.

Standard Materials

- Clamps—malleable iron.
- Nuts and bolts—steel.

Standard Finishes

- Hot dipped/mechanically galvanized.

Size Range

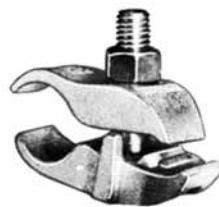
- Right Angle type—1/2" thru 6".
- Parallel type—1/2" thru 4".
- Edge type—1/2" thru 3".

Compliances

- UL listing not applicable.
- CSA Standard C22.2 No. 18



Right Angle Type



Parallel Type



Edge Type

Catalog Number	Size (In.)	Catalog Number	Size (In.)	Catalog Number	Size (In.)
Right Angle Type		Parallel Type		Edge Type	
PC-50RA	1/2	PC-50PAR	1/2	PC-50ET	1/2
PC-75RA	3/4	PC-75PAR	3/4	PC-75ET	3/4
PC-100RA	1	PC-100PAR	1	PC-100ET	1
PC-125RA	1-1/4	PC-125PAR	1-1/4	PC-125ET	1-1/4
PC-150RA	1-1/2	PC-150PAR	1-1/2	PC-150ET	1-1/2
PC-200RA	2	PC-200PAR	2	PC-200ET	2
PC-250RA	2-1/2	PC-250PAR	2-1/2	PC-250ET	2-1/2
PC-300RA	3	PC-300PAR	3	PC-300ET	3
PC-350RA	3-1/2	PC-350PAR	3-1/2		
PC-400RA	4	PC-400PAR	4		
PC-500RA	5				
PC-600RA	6				

Clamps and Clamp Backs for RMC, IMC and EMT

Malleable Iron One-Hole Clamps and Clamp Backs
and Steel One-Hole Clamps.

Applications

- Used to support runs of RMC, IMC and EMT.

NOTE: 2-1/2" thru 4" sizes also suitable for EMT.

Features

- Malleable iron clamps and clamp backs are exceptionally rugged and strong.
- Steel clamps offer economy and have integrally formed gussets for excellent strength.

Standard Material

- Malleable iron or steel.

Standard Finish

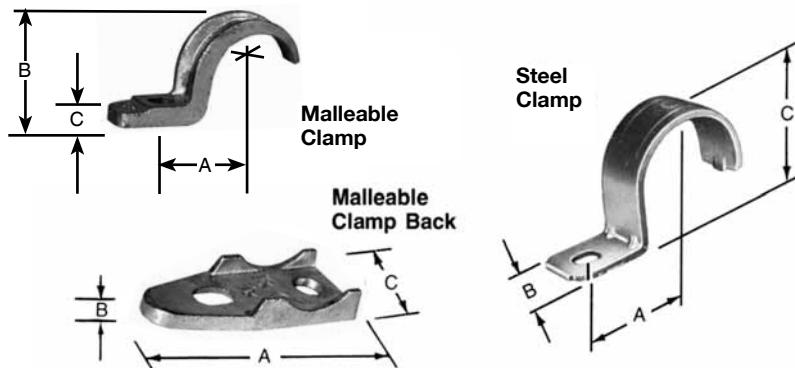
- Malleable iron clamps and clamp backs—hot dipped galvanized.
- Steel One-hole clamps—zinc electroplate.

Size Range

- Malleable iron clamps and clamp backs—1/2" thru 6".
- Steel one-hole clamp—1/4" thru 4".

Compliances

- UL listing not applicable
- CSA Standard C22.2 No. 18 applies to malleable iron clamps and clamp backs thru 6".



Catalog Number	Size (In.)	A	Dimensions (Inches)	C	Recommended Bolt Dia. (In.)
One-Hole Clamps—Malleable Iron					
CL-50MN	1/2	1	15/16	5/8	1/4
CL-75MN	3/4	1-3/16	1-7/32	3/4	1/4
CL-100MN	1	1-3/8	1-1/2	7/8	1/4
CL-125MN	1-1/4	1-5/8	1-15/16	7/8	3/8
CL-150MN	1-1/2	1-13/16	2-1/8	15/16	3/8
CL-200MN	2	2-5/6	2-5/8	1-1/16	1/2
CL-250MN	2-1/2	2-9/16	3	1-5/16	1/2
CL-300MN	3	3-3/16	3-13/16	1-1/2	1/2
CL-350MN	3-1/2	3-3/8	4-7/16	1-11/16	5/8
CL-400MN	4	3-3/4	5	1-15/16	5/8
CL-500MN	5	4-3/4	6-1/2	2-1/2	5/8
CL-600MN	6	5-5/8	7-1/2	2-3/4	1
Clamp Backs—Malleable Iron					
CLB-50MN	1/2	2-7/16	7/16	1-1/16	—
CLB-75MN	3/4	2-1/2	1/2	1-1/8	—
CLB-100MN	1	3-3/16	9/16	1-5/16	—
CLB-125MN	1-1/4	3-11/16	3/4	1-7/16	—
CLB-150MN	1-1/2	3-15/16	13/16	1-9/16	—
CLB-200MN	2	5-1/8	3/4	2	—
CLB-250MN	2-1/2	5-3/4	3/4	2-1/2	—
CLB-300MN	3	7-1/8	13/16	2-13/16	—
CLB-350MN	3-1/2	8	1	3-1/4	—
CLB-400MN	4	8-3/4	1	3-7/16	—
CLB-500MN	5	10-1/16	1-1/4	3-3/4	—
CLB-600MN	6	11-13/16	1-1/2	3-15/16	—
One-Hole Clamps—Steel					
CL-25	1/4	5/8	15/32	19/32	1/4
CL-38	3/8	13/16	5/8	11/16	9/32
CL-50	1/2	1	3/4	15/16	9/32
CL-75	3/4	1-5/32	3/4	1-1/8	9/32
CL-100	1	1-11/32	7/8	1-7/16	11/32
CL-125	1-1/4	1-11/16	1	1-25/32	13/32
CL-150	1-1/2	1-15/16	1-1/8	2	13/32
CL-200	2	2-11/32	1-3/16	2-17/32	15/32
CL-250	2-1/2	2-13/16	1-1/4	3-1/32	9/16
CL-300	3	3-5/16	1-1/4	3-21/32	9/16
CL-350	3-1/2	3-7/16	1-1/2	4-5/32	11/16
CL-400	4	3-25/32	1-1/2	4-21/32	11/16

Pipe Hangers for RMC, IMC or EMT

For Single and Double Runs of Conduit.

Applications

- Designed to support RMC, IMC or EMT running at right angle or parallel to beam.

Features

- Unique design accommodates more sizes of conduit with fewer clamps for lower inventories.
- Suitable for conduit runs on vertical and horizontal beams.
- Type CH available for single or double runs of conduit runs.

Standard Material

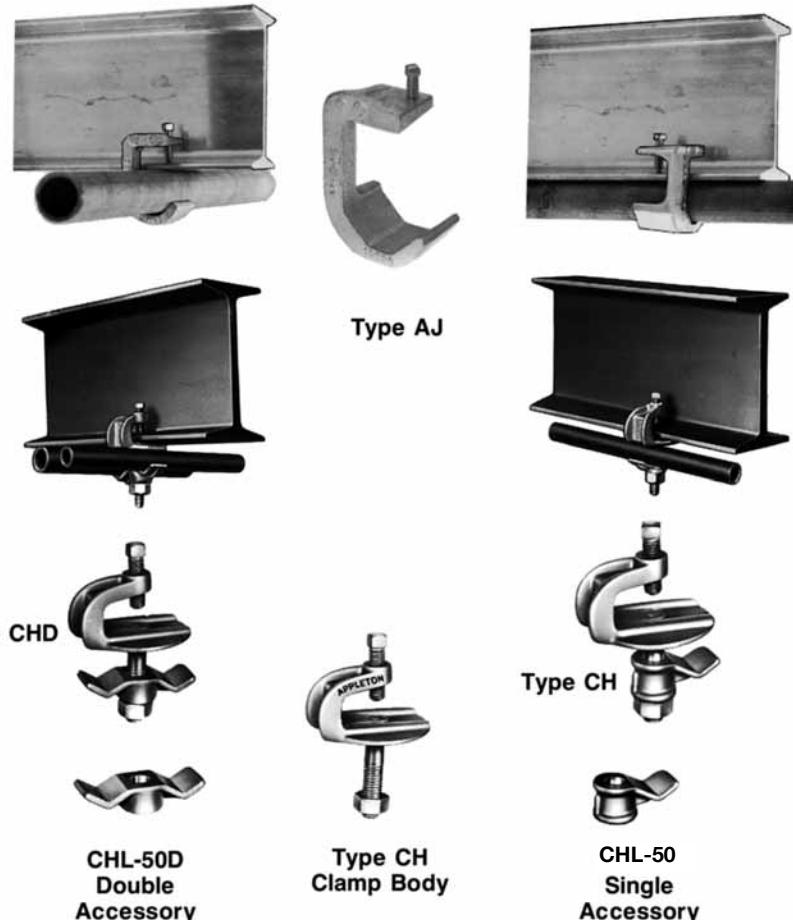
- Malleable iron.

Standard Finish

- Triple coat—(1) zinc electroplate, (2) dichromate, and (3) epoxy powder coat.

Compliances

- UL listing not applicable.
- CSA Standard C22.2 No. 18.



Catalog Number	Conduit* Size (In.)
Type AJ— for Single Line Conduit	
AJ-50-75	1/2, 3/4
AJ-100	1
AJ-125-150	1-1/4, 1-1/2
AJ-200	2

* RMC, IMC, EMT and flexible metal conduit

Catalog Number	RMC/IMC Size (In.)	EMT Size (In.)	Jaw Opening (In.)
Type CH—for Single Conduit			
CH-50S	1/2, 3/4	1/2, 3/4, 1	21/32
CH-125S	1	1-1/4, 1-1/2	21/32
Type CHD—for Double Runs of Conduit			
CH-50D	1/2, 3/4	1/2, 3/4, 1	21/32
CH-125D	1	1-1/4, 1-1/2	21/32
Single Accessories			
CHL-50	1/2, 3/4	1/2, 3/4, 1	—
CHL-125	1	1-1/4, 1-1/2	—
Double Accessories			
CHL-50D	1/2, 3/4	1/2, 3/4, 1	—
CHL-125D	1	1-1/4, 1-1/2	—
Type CH Clamp Body			
CH		Fits All Parts	21/32

Conduit Cable Tray Clamps and Grounding Conductor Clamp

Type TCC Single and TCCD Double Supporting Clamps, and TCGC Grounding Clamp.

Applications: TCC and TCCD

- For supporting rigid conduit to cable tray flange at each location where tray cable exits the tray and is run through rigid conduit raceway to control panel boards, motor starters and other electrical devices.

Applications: TCGC

- To provide a means for securely attaching a grounding conductor to cable tray to maintain grounding continuity for the entire cable tray system.
- To protect equipment through a reliable method for carrying ground fault currents.
- For installation indoors or outdoors, with most types of cable trays with inside or outside flanges.

Features: TCC and TCCD

- Clamps mount on all types of tray configurations (inside, outside or double flange).
- Exclusive design provides full 360° swivel, allowing exit conduit positioning at any angle, eliminating the need for separate inside or outside flange clamps, and field modification.
- Unique clamp mounting provides greater cable capacity and working area within the tray by reducing internal clamp obstruction.
- Exclusive TCCD double conduit clamps conserve space where multiple cables exit the tray at one location.
- Only four clamps fill needs for all conduit sizes from 1/2" thru 4".
- Fewer catalog numbers reduce job-site inventory and the chances of errors and confusion.

Features: TCGC

- Meets requirements of NEC Articles 250.4(A)(3) and 392.6(J) for grounding and bonding.
- Quick and easy installation—low installed cost. No drilling or special tools required.
- Accommodates solid (where suitable) or stranded aluminum or copper grounding conductors from #6 to 2/0.
- Setscrew bonds the clamp to the tray and another setscrew securely attaches the grounding conductor to



the clamp—outstanding pull-out and vibration resistance.

Standard Materials

- TCC and TCCD base and conduit clamp are malleable iron. Hot dipped galvanized finish.
- TCGC has copper free aluminum body, tin electroplated.
- Nuts, bolts and other hardware are steel. Mechanically galvanized finish.

Size Range

- Type TCC (single conduit clamp) available in 1/2" through 4" conduit size.
- Type TCCD (double conduit clamp) available in 1/2" through 2" conduit size.
- Type TCGC accommodates wire sizes #6 to 2/0.

Compliances

- UL Standard 467.

Catalog Number	Rigid Size (In.)
Type "TCC" Cable Tray Clamp for Single Line Conduit TCC-50100G	1/2, 3/4, 1
TCC-125200G	1-1/4, 1-1/2, 2
TCC-250300G	2-1/2, 3
TCC-350400G	3-1/2, 4
Type "TCCD" Cable Tray Clamp for Double Line Conduit TCCD-50100G	1/2, 3/4, 1
TCCD-125200G	1-1/4, 1-1/2, 2
Type "TCGC" Cable Tray Grounding Conductor Clamp TCGC	For ground wire sizes #6 to 2/0



Liquidtight Connectors and Hubs for Liquidtight Flexible Metal Conduit

General Information and special features.

Applications

- Seal out oil, water, dirt, dust and fumes wherever liquidtight flexible metal conduit is used.
- Typical applications include food processors, beverage plants, chemical plants, dairies, machine shops, plastic fabricators, petroleum machinery, and gantry cranes.

ST and STB Series

For connections to threaded hubs. Insulated throat on STB protects conductors. Connectors are available with grounding lugs. Straight sizes 3/8" thru 5"; 45° and 90°, 3/8" thru 4". Straight and 90° styles in sizes 3/8" thru 2" also available with certain metric thread sizes. See page I-49.

STN Space-Saving Connectors for Enclosures

Appleton STN Series makes liquidtight connections to sheet metal enclosures. Space-saving, self-locking gasketed wedge forms a perfect seal and allows more wiring room. Straight sizes 3/8" thru 4"; 90° sizes 3/8" thru 1".

STG Neoprene Sealing Gasket Assembly

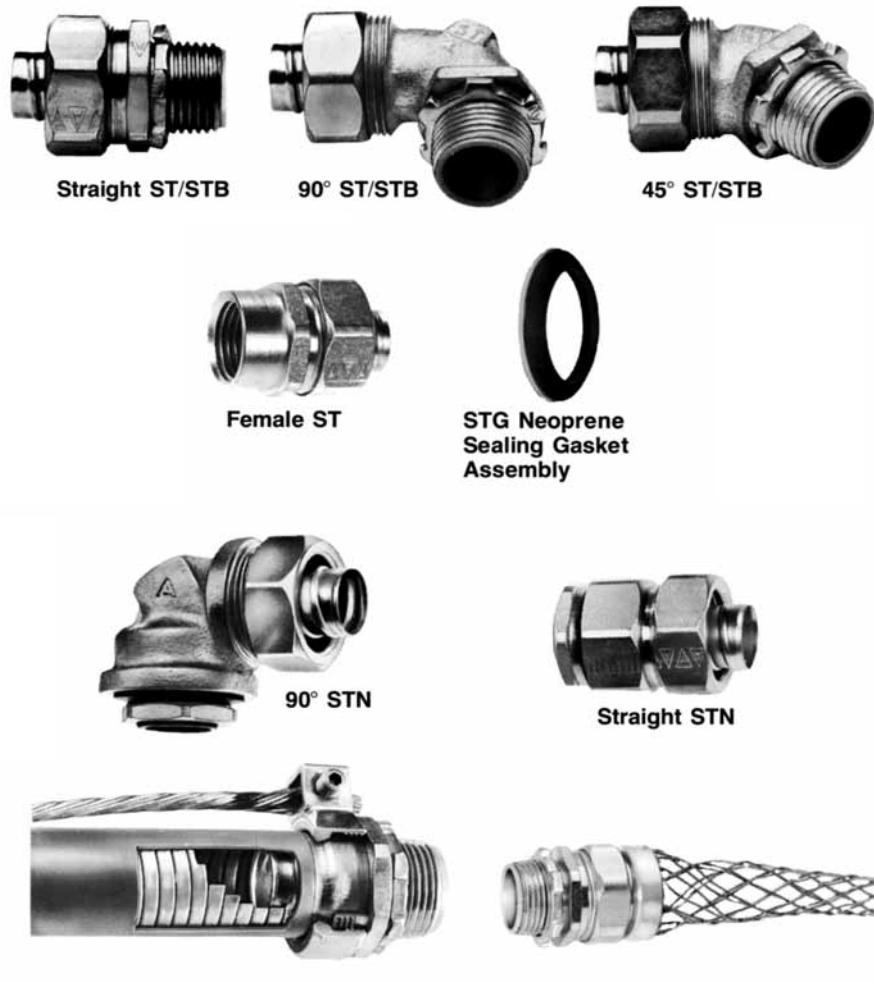
Steel backed, neoprene gasket assembly assures a liquidtight connection to a rough metal surface such as knock-outs in steel junction boxes. Sizes 1/2" thru 4" feature bonded gasket/retainer assembly. 1/4 and 3/8 available in thermoplastic material.

Female Steel ST Connectors

For liquidtight connections to threaded rigid metal conduit. Sizes 3/8" thru 1".

Features

- **Extra-long ferrule resists pull-outs.** All Appleton liquidtight fittings feature a one-piece, deep-grip ferrule design that simplifies installation and prevents conduit sleeving. Its extra length and sharply defined threads provide greater surface contact with the conduit for excellent grounding continuity, greater pull-out strength (4X UL requirements)...and added protection against excessive external conduit flexing and vibration. It virtually eliminates the need for an external strain relief in many applications.

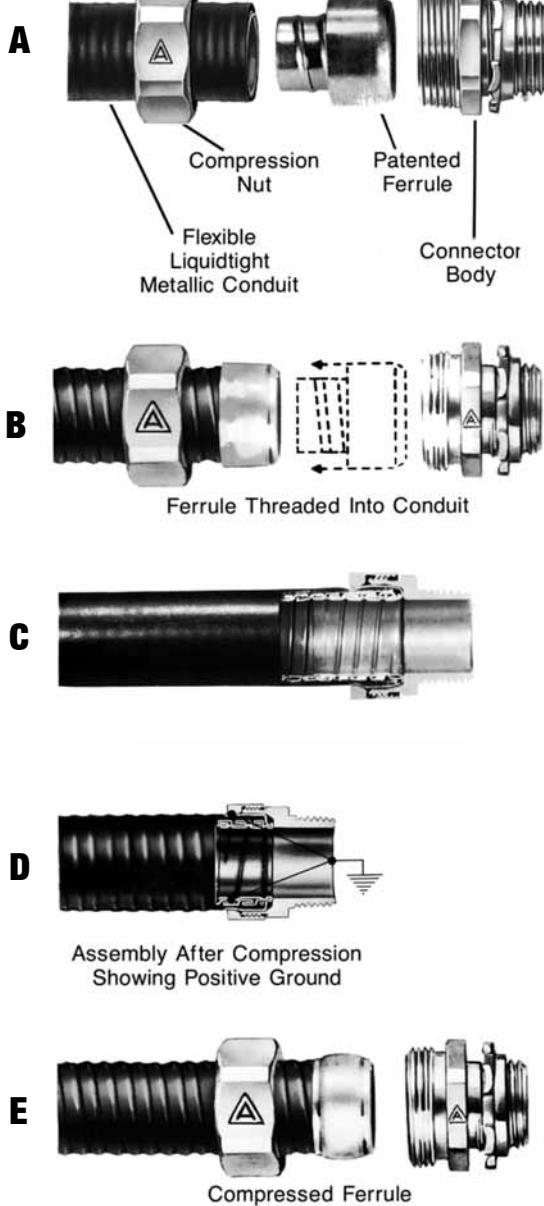


● External grounding lugs available on all Appleton liquidtight connectors. Where National Electrical Code permits an external equipment bonding jumper, [NEC sections 250-96(b), 501-16(b) and 502-16(b)], Appleton ST and STB connectors are offered with an integral bonded steel zinc electroplated lug. Cut-away view shows extended ferrule design for maximum grounding effectiveness. Grounding lugs also available in STN, STL and Female ST Series. Consult factory.

● Wire mesh strain relief available on all STB, STN, and female ST connectors. Woven stainless steel mesh sleeve alleviates flexing stress at liquidtight connection.

Installation Features of "ST", "STB" and "STN" Connectors and Hubs for Liquidtight Flexible Metal Conduit

Liquidtight Connectors



Using hacksaw, cut liquid-tight flexible conduit making certain that the jacket and conduit are flush. (A) Place compression nut over conduit. (B) Screw ferrule onto the spiraled steel inner wall of the conduit. The firm grip of the ferrule threading against the inner conduit wall provides a continuous, permanent, positive metal-to-metal ground. There are no sharp edges to cause injury to wire during or after installation. (C) Place the liquidtight flexible conduit with the ferrule into connector body. (D) Tighten compression nut as far as it will go. This will assure correct collaring of the conduit—the end of the metal edge of the ferrule will curve out slightly (E) This prevents damage to the conduit jacket itself at the time of installation, and also insures against future damage from frequent flexing, jarring or vibration.

Liquidtight Hubs



Sealing Gasket

Neoprene sealing gasket eliminates common connection problems and assures a liquidtight installation. Seals against oil, water, dirt and chemicals.



Space Saving Hex-Hub Wedge Adapter

Male shank of unique Appleton hex-hub wedge adapter “finger tightens” into connector body. Flared surface of adapter wedges box wall against locking edge of body. Forms full 360° contact on both sides of box wall.



Insulated Throat

Insulating insert recessed into hex-hub wedge adapter protects against wire damage...without reduction in throat diameter. Perfect for extreme vibration conditions. Nothing to come loose, deteriorate, crack or break!

Class I, Div. 2
Class II, Div. 1 and 2
Class III
NEC 501-4(b), 502-4(a)(2), 503-3(a)

Applications

- Provides a dependable connection for liquidtight flexible metal conduit. Seals out oil, water, dust, dirt and fumes.

Features

- ST Series has plain throat; STB Series has insulated throat to protect against wire damage.
- Unique long ferrule with more pronounced threads provides over four times UL pull-out requirements.
- Ferrule also provides maximum surface contact for better sealing and a continuous, permanent, positive metal-to-metal ground.
- Liquidtight/raintight/oiltight.
- Suitable for wet locations.
- Full, machined tapered threads (NPT).
- Compact design with small turning radius.

Standard Materials

- 3/8" to 1" (straight): steel.
- 1-1/4" to 5" (straight) and 3/8" to 4" (45° and 90°): malleable iron.
- Ferrule: (3/8" to 1") steel; (1-1/4" to 5") aluminum.

Standard Finishes

- Steel-zinc electroplate.
- Malleable iron-zinc electroplate, dichromate and epoxy powder/zinc electroplate.

Size Range:

- 3/8" thru 5" conduit size (straight)
- 3/8" thru 4" conduit size (45° and 90°)

Compliances

- UL Standard 514B.
 - CSA Standard C22.2 No. 18
 - Suitable for hazardous locations
- Class I, Div. 2
 Class II, Div. 1 and 2
 Class III, Div. 1 and 2
 NEC 501-4(b), 502-4(a)(2), 503-3(a)

For connector dimensions, see page I-48.

Liquidtight "ST" and "STB" Connectors for Liquidtight Flexible Metal Conduit

ST Series with plain throat; STB Series with insulated throat.



Steel 3/8"-1"



Malleable Iron 1-1/4"-5"



Malleable Iron 3/8"-4"
3/8"-1" with steel caps



Malleable Iron 3/8"-4"
3/8"-1" with steel caps

ST Connectors

Straight		45°		90°	
Catalog Number	Size (In.)	Catalog Number	Size (In.)	Catalog Number	Size (In.)
ST-38	3/8 flex, 1/2 hub	ST-4538	3/8 flex, 1/2 hub	ST-9038	3/8 flex, 1/2 hub
ST-50	1/2	ST-4550	1/2	ST-9050	1/2
ST-75	3/4	ST-4575	3/4	ST-9075	3/4
ST-100	1	ST-45100	1	ST-90100	1
ST-125	1-1/4	ST-45125	1-1/4	ST-90125	1-1/4
ST-150	1-1/2	ST-45150	1-1/2	ST-90150	1-1/2
ST-200	2	ST-45200	2	ST-90200	2
ST-250	2-1/2	ST-45250	2-1/2	ST-90250	2-1/2
ST-300	3	ST-45300	3	ST-90300	3
ST-350	3-1/2	ST-45400	4	ST-90400	4
ST-400	4	—	—	—	—
ST-500	5	—	—	—	—

STB Connectors - Insulated

Straight		45°		90°	
Catalog Number	Size (In.)	Catalog Number	Size (In.)	Catalog Number	Size (In.)
STB-38	3/8 flex, 1/2 hub	STB-4538	3/8 flex, 1/2 hub	STB-9038	3/8 flex, 1/2 hub
STB-50	1/2	STB-4550	1/2	STB-9050	1/2
STB-75	3/4	STB-4575	3/4	STB-9075	3/4
STB-100	1	STB-45100	1	STB-90100	1
STB-125	1-1/4	STB-45125	1-1/4	STB-90125	1-1/4
STB-150	1-1/2	STB-45150	1-1/2	STB-90150	1-1/2
STB-200	2	STB-45200	2	STB-90200	2
STB-250	2-1/2	STB-45250	2-1/2	STB-90250	2-1/2
STB-300	3	STB-45300	3	STB-90300	3
STB-350	3-1/2	STB-45400	4	STB-90400	4
STB-400	4	—	—	—	—
STB-500	5	—	—	—	—

Class I, Div. 2
Class II, Div. 1 and 2
Class III
NEC 501-4(b), 502-4(a)(2), 503-3(a)

Aluminum Liquidtight "ST" Connectors for Liquidtight Flexible Metal Conduit

ST Series with plain throat.

Applications

- Provides a dependable connection for liquidtight flexible metal conduit. Seals out oil, water, dust, dirt and fumes.

Features

- Lightweight aluminum facilitates shipping, handling and installing.
- High corrosion resistance.
- Unique long ferrule with more pronounced threads provides over four times UL pull-out requirements.
- Ferrule also provides maximum surface contact for better sealing and a continuous, permanent, positive metal-to-metal ground.
- Liquidtight/raintight/oiltight.
- Suitable for wet locations.
- Full, machined tapered threads (NPT).
- Compact design with small turning radius.

Standard Materials

- Copper-free aluminum (4/10 of 1% of copper or less).

Size Range:

- 3/8" thru 4" conduit size (straight)
- 3/8" thru 2" conduit size (90°)

Compliances

- UL Standard 514B.
- CSA Standard C22.2 No. 18.
- Suitable for hazardous locations

Class I, Div. 2

Class II, Div. 1 and 2

Class III, Div. 1 and 2

NEC 501-4(b), 502-4(a)(2), 503-3(a)

For connector dimensions, see page I-48.



Aluminum—Straight
3/8" — 4"



Aluminum—90°
3/8" — 2"

ST Connectors

Straight		90°	
Catalog Number	Size (In.)	Catalog Number	Size (In.)
ST-38AL	3/8 flex, 1/2 hub	ST-9038AL	3/8 flex, 1/2 hub
ST-50AL	1/2	ST-9050AL	1/2
ST-75AL	3/4	ST-9075AL	3/4
ST-100AL	1	ST-90100AL	1
ST-125AL	1-1/4	ST-90125AL	1-1/4
ST-150AL	1-1/2	ST-90150AL	1-1/2
ST-200AL	2	ST-90200AL	2
ST-250AL	2-1/2	—	—
ST-300AL	3	—	—
ST-400AL	4	—	—

Class I, Div. 2
Class II, Div. 1 and 2
Class III
NEC 501-4(b), 502-4(a)(2), 503-3(a)

Liquidtight "ST" and "STB" Connectors with External Grounding Lugs for Liquidtight Flexible Metal Conduit

ST Series with plain throat; STB Series with insulated throat.

Applications

- For use with liquidtight flexible metal conduit where an external, visible equipment bonding jumper is desired.

Features

- ST-L Series has plain throat; STB-L Series has insulated throat to protect against wire damage.
- Unique long ferrule with more pronounced threads provides over four times UL pull-out requirements.
- Ferrule also provides maximum surface contact for better sealing and a continuous, permanent, positive metal-to-metal ground.
- Adequately sized bonded lugs provide excellent grounding continuity and allow for visible ground path inspection.
- Liquidtight/raintight/oiltight.
- Suitable for outdoor use.
- Full, machined tapered threads (NPT).

Standard Materials

- 3/8" to 1" (straight): steel.
- 1-1/4" to 5" (straight) and 3/8" to 4" (45° and 90°): malleable iron.
- Ferrule: (3/8" to 1") steel; (1-1/4" to 5") aluminum.

Standard Finishes

- Steel-zinc electroplate.
- Malleable iron—zinc electroplate, dichromate and epoxy powder/zinc electroplate.

Size Range:

- 3/8" thru 5" conduit size (straight).
- 3/8" thru 4" conduit size (45° and 90°)

Compliances

- UL Standard 467 and 514B.
 - CSA Standard C22.2 No. 18.
 - Suitable for hazardous locations
- Class I, Div. 2
 Class II, Div. 1 and 2
 Class III, Div. 1 and 2
 NEC 501-4(b), 502-4(a)(2), 503-3(a)

For connector dimensions, see page I-48.



Steel 3/8"-1"
Malleable Iron 1-1/4"-5"



Malleable Iron 3/8"-4"
3/8"-1" with Steel Caps



Malleable Iron 3/8"-4"
3/8"-1" with Steel Caps

ST-L Connectors

Straight		45°		90°	
Catalog Number	Size (In.)	Catalog Number	Size (In.)	Catalog Number	Size (In.)
ST-38L	3/8 flex, 1/2 hub	ST-4538L	3/8 flex, 1/2 hub	ST-9038L	3/8 flex, 1/2 hub
ST-50L	1/2	ST-4550L	1/2	ST-9050L	1/2
ST-75L	1/4	ST-4575L	3/4	ST-9075L	3/4
ST-100L	1	ST-45100L	1	ST-90100L	1
ST-125L	1-1/4	ST-45125L	1-1/4	ST-90125L	1-1/4
ST-150L	1-1/2	ST-45150L	1-1/2	ST-90150L	1-1/2
ST-200L	2	ST-45200L	2	ST-90200L	2
ST-250L	2-1/2	ST-45250L	2-1/2	ST-90250L	2-1/2
ST-300L	3	ST-45300L	3	ST-90300L	3
ST-350L	3-1/2	ST-45400L	4	ST-90400L	4
ST-400L	4	—	—	—	—
ST-500L	5	—	—	—	—

STB-L Connectors - Insulated

Straight		45°		90°	
Catalog Number	Size (In.)	Catalog Number	Size (In.)	Catalog Number	Size (In.)
STB-38L	3/8 flex, 1/2 hub	STB-4538L	3/8 flex, 1/2 hub	STB-9038L	3/8 flex, 1/2 hub
STB-50L	1/2	STB-4550L	1/2	STB-9050L	1/2
STB-75L	3/4	STB-4575L	3/4	STB-9075L	3/4
STB-100L	1	STB-45100L	1	STB-90100L	1
STB-125L	1-1/4	STB-45125L	1-1/4	STB-90125L	1-1/4
STB-150L	1-1/2	STB-45150L	1-1/2	STB-90150L	1-1/2
STB-200L	2	STB-45200L	2	STB-90200L	2
STB-250L	2-1/2	STB-45250L	2-1/2	STB-90250L	2-1/2
STB-300L	3	STB-45300L	3	STB-90300L	3
STB-350L	3-1/2	STB-45400L	4	STB-90400L	4
STB-400L	4	—	—	—	—
STB-500L	5	—	—	—	—

Liquidtight Flexible Metal Conduit Connectors with Wire Mesh Strain Relief

STB, STN, and Female ST Types.

Applications

- For use with liquidtight flexible metal conduit subjected to flexure, vibration, motion, or strain. "STB" Type connects to threaded hubs. "STN" Type is for connections to sheet metal enclosures. Female ST Type connects to threaded rigid conduit and IMC.

Features

- Unique long ferrule with more pronounced threads provides over four times UL pull-out requirements.
- Ferrule also provides maximum surface contact for better sealing and a continuous, permanent, positive metal-to-metal ground.
- Stainless steel wire mesh prevents pull-out of flexible conduit from fitting.
- Insulated throat (STB and STN Series) protects against wire damage.
- STN Type has space-saving hex hub wedge adapter that fits nearly flush

against inside walls of enclosures, providing maximum wiring room.

- Liquidtight/raintight/oiltight.
- Suitable for wet locations.
- STB Series has full, machined tapered threads (NPT).

Standard Materials

- Straight STB, STN, and Female ST connectors—3/8" to 1" are steel, 1-1/4" and over are malleable iron.
- 45° and 90° connectors—all sizes are malleable iron.
- Ferrule—3/8" to 1" are steel; 1-1/4" and over are aluminum.
- Wire Mesh—stainless steel.

Standard Finishes

- Steel—zinc electroplate.
- Malleable iron—zinc electroplate, dichromate and epoxy powder/zinc electroplate.

Size Range:

- All STB, Female ST and straight STN connectors: 3/8" thru 3" conduit size.
- STN 90° connectors: 3/8" thru 1" conduit size.

Compliances

- UL Standard 514B.
- CSA Standard C22.2 No. 18
- Suitable for hazardous locations Class I, Div. 2
- Class II, Div. 1 and 2
- Class III, Div. 1 and 2
- NEC 501-4(b), 502-4(a)(2), 503-3(a)

For Wire Mesh Strain Relief (with cap) only, see catalog Section ST.

Catalog Number	Size (In.)	Catalog Number	Size (In.)	Catalog Number	Size (In.)	Hole Dia. (In.) Min.	Hole Dia. (In.) Max.	Wall Thickness (In.) Min.	Wall Thickness (In.) Max.
									
"STB" Straight—Insulated		"STB" 90°—Insulated		"STN" Straight—Insulated					
STB-38SR	3/8 flex, 1/2 hub	STB-9038SR	3/8 flex, 1/2 hub	STN-38SR	3/8	7/8	15/16	1/16	5/64
STB-50SR	1/2	STB-9050SR	1/2	STN-50SR	1/2	7/8	31/32	3/32	1/4
STB-75SR	3/4	STB-9075SR	3/4	STN-75SR	3/4	1-3/32	15/32	1/16	5/64
STB-100SR	1	STB-90100SR	1	STN-100SR	1	1-11/32	1-7/32	3/32	1/4
STB-125SR	1-1/4	STB-90125SR	1-1/4	STN-125SR	1-1/4	1-11/16	1-15/32	1/16	5/64
STB-150SR	1-1/2	STB-90150SR	1-1/2	STN-150SR	1-1/2	1-15/16	1-25/32	3/32	5/16
STB-200SR	2	STB-90200SR	2	STN-150SR	1-1/2	2-1/32	1-27/32	1/16	5/64
STB-250SR	2-1/2	STB-90250SR	2-1/2	STN-150SR	2	2-3/32	2-17/32	3/32	5/16
STB-300SR	3	STB-90300SR	3	STN-200SR	2	2-25/64	2-19/32	1/16	5/64
									
"STB" 45°—Insulated		Female "ST" Connectors		"STN" 90°—Insulated					
STB-4538SR	3/8 flex, 1/2 hub	ST-38FSR	3/8 flex, 1/2 hub	STN-9038SR	3/8	7/8	15/16	1/16	5/64
STB-4550SR	1/2	ST-50FSR	1/2	STN-9050SR	1/2	31/32	3/32	1/4	
STB-4575SR	3/4	ST-75FSR	3/4	STN-9075SR	3/4	1-3/32	15/32	1/16	5/64
STB-45100SR	1	ST-100FSR	1	STN-90100SR	1	1-11/32	1-7/32	3/32	1/4
STB-45125SR	1-1/4	ST-125FSR	1-1/4	STN-90125SR	1-1/4	1-11/16	1-15/32	3/32	5/16
STB-45150SR	1-1/2	ST-150FSR	1-1/2	STN-90150SR	1-1/2	2-1/32	2-17/32	1/16	5/64
STB-45200SR	2	ST-200FSR	2	STN-90200SR	2	2-3/32	2-19/32	3/32	5/16
STB-45250SR	2-1/2	ST-250FSR	2-1/2	STN-90250SR	2-1/2	2-15/32	2-27/32	1/16	5/64
STB-45300SR	3	ST-300FSR	3	STN-90300SR	3	3-33/64	3-41/64	3/32	5/16

Class I, Div. 2
Class II, Div. 1 and 2
Class III
NEC 501-4(b), 502-4(a)(2), 503-3(a)

Liquidtight "STN" Insulated Connectors for Liquidtight Flexible Metal Conduit

Straight and 90°, for connections to sheet metal enclosures.

Applications

- For use with liquidtight flexible metal conduit in sheet metal enclosure installations.

Features

- Unique long ferrule with more pronounced threads provides over four times UL pull-out requirements.
- Ferrule also provides maximum surface contact for better sealing and a continuous, permanent, positive metal-to-metal ground.
- Insulated throat protects against wire damage.
- Space-saving hex-hub wedge adapter fits nearly flush against inside walls of enclosures, providing maximum wiring room.
- Liquidtight/raintight/oiltight.
- Suitable for wet locations.

Standard Materials

- 3/8" to 1" (straight): steel
- 1-1/4" to 4" (straight) and 3/8" to 1" (90°): malleable iron.
- Ferrule: (3/8" to 1") steel; (1-1/4" to 4") aluminum.

Standard Finishes

- Steel—zinc electroplate.
- Malleable iron—zinc electroplate, dichromate and epoxy powder/zinc electroplate.

Size Range:

- 3/8" thru 4" conduit size (straight).
- 3/8" thru 1" conduit size (90°).

Compliances

- UL Standard 514B.
- CSA Standard C22.2 No. 18.
- Suitable for hazardous locations

Class I, Div. 2

Class II, Div. 1 and 2

Class III, Div. 1 and 2

NEC 501-4(b), 502-4(a)(2), 503-3(a)

For connector dimensions, see page I-48.



Steel 3/8" to 1"



Malleable 1-1/4" to 4"



Malleable 3/8" to 1"

Catalog Number*	Size (In.)	Hole Dia. (In.) Min.	Hole Dia. (In.) Max.	Wall Thickness (In.) Min.	Wall Thickness (In.) Max.
Straight					
STN-38	3/8	7/8	15/16 31/32	1/16 3/32	5/64 1/4
STN-50	1/2	7/8	15/16 31/32	1/16 3/32	5/64 1/4
STN-75	3/4	1-3/32	1-5/32 1-7/32	1/16 3/32	5/64 1/4
STN-100	1	1-11/32	1-13/32 1-15/32	1/16 3/32	5/64 1/4
STN-125	1-1/4	1-11/16	1-25/32 1-27/32	1/16 3/32	5/64 5/16
STN-150	1-1/2	1-15/16	2-1/32 2-3/32	1/16 3/32	5/64 5/16
STN-200	2	2-25/64	2-17/32 2-19/32	1/16 3/32	5/64 5/16
STN-250	2-12	2-57/64	3-1/64	3/32	5/16
STN-300	3	3-33/64	3-41/64	3/32	5/16
STN-400	4	4-33/64	4-5/8	3/32	5/16

90°					
STN-9038	3/8	7/8	15/16 31/32	1/16 3/32	5/64 1/4
STN-9050	1/2	7/8	15/16 31/32	1/16 3/32	5/64 1/4
STN-9075	3/4	1-3/32	1-5/32 1-7/32	1/16 3/32	5/64 1/4
STN-90100	1	1-11/32	1-13/32 1-15/32	1/16 3/32	5/64 1/4

* Grounding lugs can be provided, consult factory.

Liquidtight "ST-F" Female Connectors and "STG" Sealing Gaskets for Liquidtight Flexible Metal Conduit Connectors

Applications

- Female ST Connectors

For use with liquidtight flexible metal conduit when making connection to threaded rigid conduit and IMC.

- STG Sealing Gaskets

Gaskets provide a positive seal between shoulder of male hub connector and sheet metal enclosure.

Features

- All ST Connectors have a unique long ferrule with more pronounced threads that provide over four times UL pull-out requirements. The ferrule also provides maximum surface contact for better sealing and a continuous, permanent, positive metal-to-metal ground.

- Liquidtight/raintight/oiltight.
- Suitable for wet locations.
- Full, machined tapered threads (NPT).
- Female ST Connectors have compact design with small turning radius.
- STG Sealing Gaskets in sizes 1/4" and 3/8" are one piece elastomeric gaskets. Sizes 1/2" thru 6" have unique bonded gasket/retaining-ring assembly for easy installation.

Standard Materials

- ST Connectors: 3/8" to 1"—steel with steel ferrule; 1-1/4" to 4"—malleable iron with aluminum ferrule.
- STG Sealing Gaskets: 1/4" and 3/8"—elastomeric material; 1/2" to 6"—steel retaining ring with bonded neoprene gasket.

Standard Finishes

- Steel—zinc electroplate.
- Malleable iron—Zinc electroplate, dichromate and epoxy powder coat.

Size Range:

- ST Female Connectors: 3/8" thru 4" conduit size.
- STG Sealing Gaskets: 1/4" thru 6" trade (hub) size.



Female ST-F Connector
Steel 3/8" - 1" Malleable Iron 1-1/4" - 4"



STG Sealing Gasket

Compliances

- UL Standard 514B.
- CSA Standard C22.2 No. 18.
- Suitable for hazardous locations

Class I, Div. 2

Class II, Div. 1 and 2

Class III, Div. 1 and 2

NEC 501-4(b), 502-4(a)(2), 503-3(a)

- STG Sealing Gaskets are UL listed raintight when used with raintight enclosures and Appleton Liquidtight and Cord Grip fittings.

Catalog Number	Size (In.)	Catalog Number	Size (In.)
"ST" Connectors with Female Threaded Hubs*			
ST-38F	3/8 Flex., 1/2 Hub	Sealing Gasket – Not for use with STN	
ST-50F	1/2	STG-25	1/4
ST-75F	3/4	STG-38	3/8
ST-100F	1	STG-50	1/2
ST-125F	1-1/4	STG-75	3/4
ST-150F	1-1/2	STG-100	1
ST-200F	2	STG-125	1-1/4
ST-250F	2-1/2	STG-150	1-1/2
ST-300F	3	STG-200	2
ST-400F	4	STG-250	2-1/2
		STG-300	3
		STG-350	3-1/2
		STG-400	4
		STG-500	5
		STG-600	6

* Grounding lugs can be provided, consult factory. For replacement grounding ferrule, see Catalog Sect. ST. For dimensions, see page I-48.

“PG” and “ISO” Metric Thread Liquidtight Insulated Connectors for Liquidtight Flexible Metal Conduit

Applications

- Provides a dependable connection for liquidtight flexible metal conduit.

Features

- Unique long ferrule with more pronounced threads provides over four times UL pull-out requirements. The ferrule also provides maximum surface contact for better sealing and a continuous, permanent, positive metal-to-metal ground.
- Insulated throat protects against wire damage.
- Liquidtight/raintight/oiltight.
- Suitable for wet locations.
- Full, machined metric threads.
- Compact design with small turning radius.

Standard Materials

- 3/8" to 1" (straight): steel.
- 1-1/4" to 2" (straight) and 3/8" to 2" (45° and 90°): malleable iron.
- Ferrule: (3/8" to 1") steel; (1-1/4" to 2") aluminum.
- Insulators: Nylon.

Standard Finishes

- Steel-zinc electroplate.
- Malleable iron—zinc electroplate, dichromate and epoxy powder coat.

Size Range

- 3/8" thru 2" conduit size.

Compliances

- UL Standard 514B, File No. E14814. CSA File No. 65178.
- “PG” Metric Thread—German industry Std. DIN 40430.



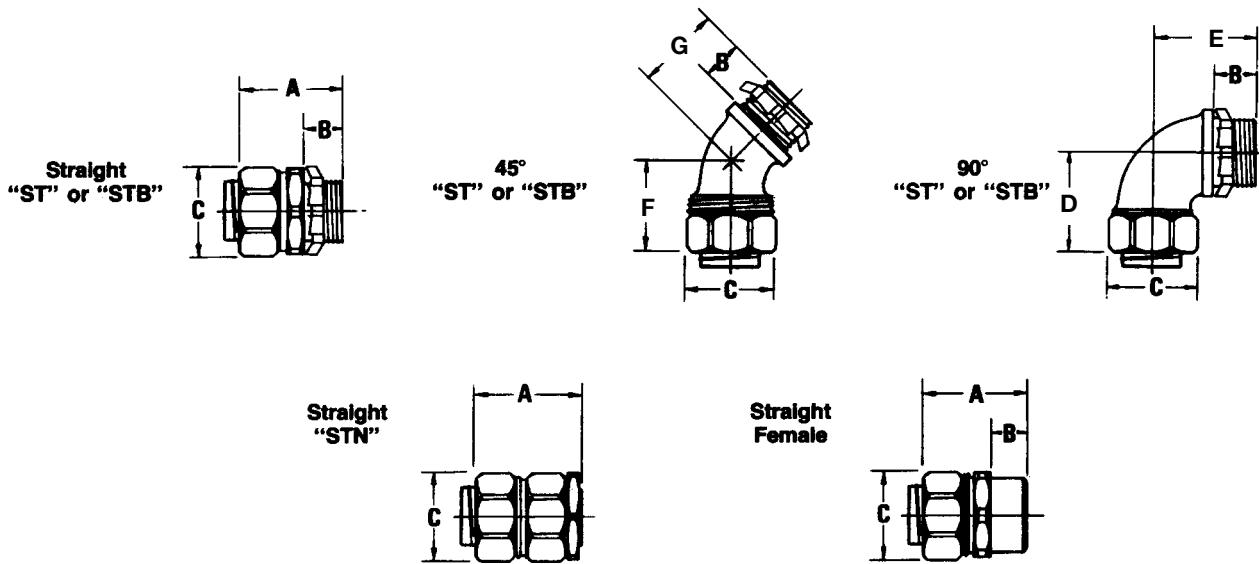
Steel 3/8"-1"
Malleable Iron 1-1/4"-2"



Malleable Iron 3/8"-2"
3/8"-1" with Steel Caps

Catalog Number	Flexible Conduit Size (In.)	Metric Thread	Catalog Number	Flexible Conduit Size (In.)	Metric Thread
“PG” Metric Thread Straight-					
“ISO” Metric Thread Straight					
PG 3811-STB	3/8	11.0	ISO 3816-STB	3/8	16.0
PG 3813-STB	3/8	13.5	ISO 5020-STB	1/2	20.0
PG 50-STB	1/2	16.0	ISO 7525-STB	3/4	25.0
PG 75-STB	3/4	21.0	ISO 10032-STB	1	32.0
PG 100-STB	1	29.0			
PG 125-STB	1-1/4	36.0			
PG 150-STB	1-1/2	42.0			
PG 200-STB	2	48.0			
45°					
PG45 3811-STB	3/8	11.0	ISO45 3816-STB	3/8	16.0
PG45 3813-STB	3/8	13.5	ISO45 5020-STB	1/2	20.0
PG45 50-STB	1/2	16.0	ISO45 7525-STB	3/4	25.0
PG45 75-STB	3/4	21.0	ISO45 10032-STB	1	32.0
PG45 100-STB	1	29.0			
PG45 125-STB	1-1/4	36.0			
PG45 150-STB	1-1/2	42.0			
PG45 200-STB	2	48.0			
90°					
PG90 3811-STB	3/8	11.0	ISO90 3816-STB	3/8	16.0
PG90 3813-STB	3/8	13.5	ISO90 5020-STB	1/2	20.0
PG90 50-STB	1/2	16.0	ISO90 7525-STB	3/4	25.0
PG90 75-STB	3/4	21.0	ISO90 10032-STB	1	32.0
PG90 100-STB	1	29.0			
PG90 125-STB	1-1/4	36.0			
PG90 150-STB	1-1/2	42.0			
PG90 200-STB	2	48.0			

Dimensions:
"ST", "STB" and "STN" Connectors



Dimensions (In Inches)

Flex. Std. Cond. Pipe Thrd. Size Size	A			B		C	D	E	F	G
	ST STB	STN	Female	ST STB	Female					
Steel										
3/8 1/2—14	1-7/16	1-7/16	1-5/16	5/8		1-1/8	1-1/2	1-1/4	1-1/8	7/8
1/2 1/2—14	1-7/16	1-7/16	1-5/16	5/8	7/16	1-1/4	1-1/2	1-1/4	1-1/8	7/8
3/4 3/4—14	1-1/2	1-9/16	1-7/16	5/8	1/2	1-1/2	1-9/16	1-7/16	1-1/4	1-1/8
1 1—11-1/2	1-5/8	1-3/4	1-9/16	3/4	11/16	1-13/16	1-7/8	1-3/8	1-13/16	1-3/8
Malleable Iron										
1-1/4 1-1/4—11-1/2	2	2-5/8		5/8		2-5/16	2-3/8	1-13/16	1-13/16	1-5/8
1-1/2 1-1/2—11-1/2	2-1/4	2-5/8		5/8		2-5/8	3-3/16	2-7/16	2-1/8	1-13/16
2 2 —11-1/2	2-1/2	2-5/16		11/16		3-3/16	3-9/16	2-5/8	2-3/8	2
2-1/2 2-1/2—8	3-3/8	3-5/8		1-1/16		3-15/16	8-7/16	7-3/16	5	3-9/16
3 3 —8	3-11/16	3-11/16		1-3/16		4-3/8	10-1/8	8-5/8	5-13/16	4-5/16
3-1/2 3-1/2—8	3-11/16			1-3/16		5				
4 4 —8	4	4-3/16		1-1/4		5-1/2	12-13/16	11-1/4	6-15/16	4-5/8
5 5 —8	4-7/16			1-5/8		6-7/8				

Dimensions of Liquidtight Flexible Metal Conduit

Flexible Conduit Size	Outside Diameter (In.) Minimum	Outside Diameter (In.) Maximum	Flexible Conduit Size	Outside Diameter (In.) Minimum	Outside Diameter (In.) Maximum
3/8"	.690	.710	2-1/2"	2.840	2.875
1/2"	.820	.840	3"	3.460	3.500
3/4"	1.030	1.050	3-1/2"	3.960	4.000
1"	1.290	1.315	4"	4.460	4.500
1-1/4"	1.630	1.660	5"	5.505	5.565
1-1/2"	1.870	1.900	6"	6.565	6.765
2"	2.335	2.375			