

Cable Glands and Cable Accessories Hazardous and Non-hazardous

4F

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4F Cable Glands and Cable Accessories

Application and Selection

4F Applications:

Cable glands and cord fittings:

- Provide means for passing a cord, cable (armored or unarmored) or flexible conduit into an enclosure, through a bulkhead or into a rigid conduit
- Form a mechanical grip and water and/or oil-resistant seal for cord and unarmored or jacketed armored, round cables
- Form a non-slip connection or termination for flexible cord, cable (armored or unarmored), or flexible conduit
- Provide grounding continuity for cable armor and flexible conduit

Cable glands with sealing fitting or epoxy are installed to:

- Provide means for passing armored, metal clad, jacketed or unjacketed and unarmored cables through a bulkhead or enclosure in hazardous areas. These fittings are suitable for use in Class I, Groups C, D locations only when Chico® A sealing compound or TSC epoxy (TMCX) is used to make the seal in the fitting*
- Form a mechanical grip and water and/or oil-resistant termination
- Provide ground continuity of cable armor and flexible conduit

TMC (non-hazardous) and TMCX (hazardous) fittings are designed for use with Type MC jacketed steel or aluminum metal clad cables with interlocked or corrugated armor and Type TC tray cable (TMCX).

LCC cable tray conduit clamps are used for installation on cable tray side rails with inside flanges (requiring inside tray mounting) and outside flanges; LCCF clamps are for use exclusively on inside flanges. LCC/LCCF series cable tray conduit clamps are installed to:

- Provide a means of clamping metal conduit (rigid steel or aluminum, IMC and EMT) to cable tray for the exit of power and/or control cables from tray
- Provide a means to firmly bond exiting conduit to cable tray for best grounding continuity

TW Series THRU-WALL BARRIER® cable/conduit sealing devices are installed to:

- Seal cables or conduits penetrating fire rated walls, ceilings, or floors
- Restrict entrance of water and dust and contain treated air
- Provide a seal for cable/conduit penetrations through steel, masonry or concrete; to restrict the entrance of contaminants through cable/conduit penetrations into clean areas

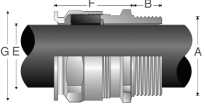
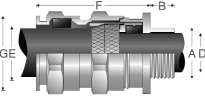
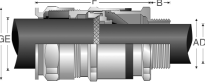
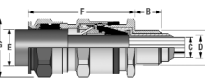
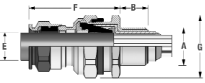
TGC cable tray grounding conductor clamp provides a means for securely attaching a grounding conductor to cable tray to provide grounding continuity for the entire tray system. TGC cable tray grounding conductor clamps provide a reliable method for carrying ground fault current for equipment protection. TGC clamp may be installed on most types of cable trays – with inside or outside flanges.

Considerations for Selection:

- Selection of the proper cable gland involves consideration of the type of cable to be installed and the environment that will surround the cable after installation.
- A proper matching of the cable and its gland is necessary to prevent physical damage to the cable when installed. Some types of cable glands depend on gripping methods (set screws, etc.) which may lead to damage of the cable outer covering. Eaton's Crouse-Hinds cable glands and cord fittings utilize compression of split lead or tapered neoprene bushings to provide high gripping strength for adequate cable support and strain relief without damage to the cable sheath.
- Compression of bushing provides a strong electrical bond that assures grounding continuity.
- Compression of a tapered neoprene bushing assures the watertight integrity of Eaton's Crouse-Hinds cable glands. Additional watertightness, to prevent water seepage into the fitting body, can be obtained by use of a potting head filled with a hot pouring compound.
- To meet National Electrical Code requirements for electrical installations in hazardous atmospheres, a sealing fitting may be required in conjunction with the cable or cord fitting.

*With specific cords and cables when installed in accordance with NEC/CEC requirements.

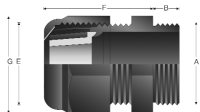
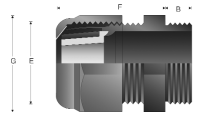
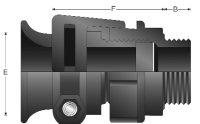
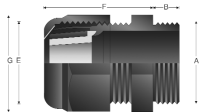
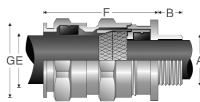
Quick Selection Guide - International Standards

CABLE GLAND	ILLUSTRATION	CABLE TYPE	GLAND TYPE	STANDARD MATERIAL	CERTIFICATION	PROTECTION TYPE
ADE 1F (see page 71)		Non-armoured, armoured and tray cable (does not terminate the armour)	Non-armoured	Nickel-plated brass		Flameproof & Increased Safety
ADE 4F (see page 72)		SWA, SWB, STA, braided marine shipboard and lead sheathed (with addition of earthing washer)	Armoured	Nickel-plated brass		Flameproof & Increased Safety
ADE 6F (see page 73)		SWA, SWB, STA and braided marine shipboard	Armoured	Nickel-plated brass		Flameproof & Increased Safety
ADE 6FC (see page 74)		SWA, SWB, STA, braided marine shipboard and lead sheathed (with addition of earthing washer)	Armoured barrier	Nickel-plated brass		Flameproof & Increased Safety
ADE 1FC (see page 75)		Non-armoured, armoured and tray cable (does not terminate the armour)	Non-armoured barrier	Nickel-plated brass		Flameproof & Increased Safety

4F Global Cable Glands

Quick Selection Guide - International Standards

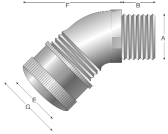
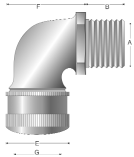
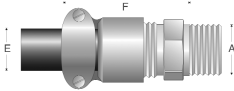
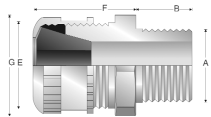
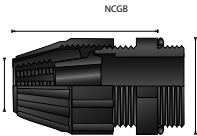
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CABLE GLAND	ILLUSTRATION	CABLE TYPE	GLAND TYPE	STANDARD MATERIAL	CERTIFICATION	PROTECTION TYPE
Ex - e (see page 76)		Non-armoured	Non-armoured	Polyamide		Increased Safety
Ex - i (see page 77)		Non-armoured	Non-armoured	Polyamide		Increased Safety
Trumpet (see page 78)		Non-armoured	Non-armoured	Polyamide		Increased Safety
Enlargement and Multiple (see page 79)		Non-armoured	Non-armoured	Polyamide		Increased Safety
ADE 4I (see page 80)		SWA, SWB, STA, braided marine shipboard and lead sheathed (with addition of earthing washer)	Armoured	Nickel-plated brass		Industrial

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Quick Selection Guide - North American Standards

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CABLE GLAND	ILLUSTRATION	CABLE TYPE	GLAND TYPE	STANDARD MATERIAL	CERTIFICATION	PROTECTION TYPE
CGD (see page 91)		Non-armoured and tray cable	Non-armoured	Body: iron Gland nut: steel	cUL US LISTED	General Purpose
CGE (see page 92)		Non-armoured and tray cable	Non-armoured	Body: iron Gland nut: steel	cUL US LISTED	General Purpose
CGB1013 (see page 93)		Non-armoured and tray cable	Portable cord connector	Body: steel Gland nut: aluminum	cUL US LISTED	General Purpose
CGFP (see page 94)		Non-armoured and tray cable	Non-armoured	Form B-C: steel Form D-G: iron	cUL US LISTED	General Purpose
NCG (see page 95)		Non-armoured and tray cable	Non-armoured	Polyamide	cUL US LISTED	General Purpose
NCGB (see page 95)		Non-armoured and tray cable	Non-armoured	Thermoplastic polyester	cUL US LISTED	General Purpose

**International Standards -
Flameproof and Increased Safety****Gland Type:**

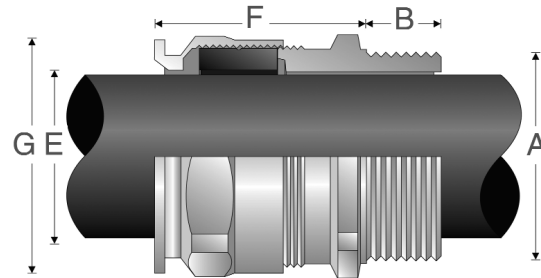
Non-armoured

Cable Type:

Non-armoured, armoured and tray cable (does not terminate the armour)

Certifications and Compliances:

- ATEX LCIE 97 ATEX 6008X – Exd IIC/Exe II/Ex tD /Ex II 2 GD
- IECEX LCI 05.0004X
- cULus Listed for Class I Zone 2 AEx e II/Ex e II E310130
- cULus Marine Listed for Class I Zone 2 AEx e II/Ex e II E314047
- NEMA 4X and IP68
- CEPEL cepel-EX-558/05X
- GOST-R POCC FR.B02011
- NEPSI N° GYJ071336U & GYJ071337U

**Features:**

- Standard material is nickel-plated brass for superior corrosion resistance
- Provides a flameproof and weatherproof seal on the outer sheath of the cable
- Standard neoprene seal suitable for use in operating temperatures ATEX (-60°C to 100°C), IECEX and cULus (-40°C to 100°C)
- Available with optional silicone seal for extreme temperatures
- Available with metric or NPT threads
- See pages 96–103 for related accessories

ORDERING EXAMPLE:

CAP81640 4 KX

Gland Type

Options

OPTIONS (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze
- 7 Aluminum
- 5 Silicone sealing ring with temperature range of -70°C to 220°C
- K1 Includes locknut and fiber washer
- K2 Includes locknut, fiber washer, earth tag, and shroud

SELECTION TABLE

Gland Size	Entry Thread Size 'A'				Thread Length 'B' Metric (NPT)	Cable Acceptance Outer Sheath 'E'		Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #	NPT Size	NPT Catalog #		Min	Max		Across Flats	Across Corners 'G'
4	M12	CAP816404	1/4"	CAP818404	15 (12.0)	4.0	8.0	20	—	16.5
4	M16	CAP816594	3/8"	CAP818594	15 (12.0)	4.0	8.5	20	—	20.9
5	M16	CAP816504	1/2"	CAP818694	15 (12.0)	6.0	12.0	22	—	20.9
4	M20	CAP816674	1/2"	CAP818674	15 (20.2)	4.0	8.5	20	—	26.4
5	M20	CAP816694	1/2"	CAP818694	15 (20.2)	6.0	12.0	22	—	26.4
6	M20	CAP816604	1/2"	CAP818604	15 (20.2)	8.5	16.0	25	—	26.4
5	M25	CAP816774	3/4"	CAP818774	15 (20.2)	6.0	12.0	22	—	33
6	M25	CAP816794	3/4"	CAP818794	15 (20.2)	8.5	16.0	25	—	33
7	M25	CAP816704	3/4"	CAP818704	15 (20.2)	12.0	21.0	27	—	33
7	M32	CAP816894	1"	CAP818894	15 (25.3)	12.0	21.0	27	—	39.6
8	M32	CAP816804	1"	CAP818804	15 (25.3)	16.0	27.5	34	—	45.1
8	M40	CAP816994	1 1/4"	CAP818994	15 (26.0)	16.0	27.5	34	—	48.4
9	M40	CAP816904	1 1/4"	CAP818904	15 (26.0)	21.0	34.0	36	—	52.8
9	M50	CAP817094	1 1/2"	CAP819094	15 (26.5)	21.0	34.0	36	—	60.5
10	M50	CAP817004	1 1/2"	CAP819004	15 (26.5)	27.0	41.0	39	—	60.5
11	M63	CAP817294	2"	CAP819294	17 (27.2)	33.0	48.0	41	—	73.7
12	M63	CAP817204	2"	CAP819204	17 (27.2)	40.0	56.0	43	—	79.2
12	M75	CAP817394	2 1/2"	CAP819494	18 (40.5)	40.0	56.0	43	—	88
13	M75	CAP817304	2 1/2"	CAP819404	18 (40.5)	47.0	65.0	49	—	93.5
14	M90	CAP817594	3"	CAP819594	22 (42.0)	54.0	74.0	56	—	104.5
15	M90	CAP817504	3"	CAP819504	22 (42.0)	63.0	78.0	61	—	121
16	M110	CAP817794	3 1/2"	CAP819604	22 (43.2)	72.0	92.0	62	—	132

4F

ADE 4F

International Standards - Flameproof and Increased Safety

ATEX
IECEX
cULus Listed for Class I, Zone 2
cULus Marine Listed for Class I,
Zone 1

CEPEL
GOST-R
NEPSI
NEMA 4X and IP68

4F

Gland Type:

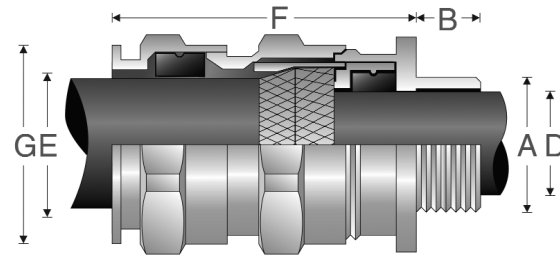
Armoured

Cable Type:

Steel wire armoured, steel wire braided, steel tape armoured, braided marine shipboard and lead sheathed (with addition of earthing washer)

Certifications and Compliances:

- ATEX LCIE 97 ATEX 6008X – Exd IIC/Exe II/Ex tD/Ex II 2 GD
- IECEX LCI 05.0004X
- cULus listed for Class I, Zone 2 AEx e II/Ex e II E310130
- cULus Marine listed for Class I, Zone 1 AEx e II/Ex e II E314047
- NEMA 4X and IP68
- CEPEL cepel-EX-559/05X
- GOST-R POCB FR.B02011
- NEPSI N° GYJ071336U & GYJ071337U



Features:

- Standard material is nickel-plated brass for superior corrosion resistance
- Armour clamping and bonding with no reversible components for easy installation, minimizing error
- Provides flameproof seal on inner jacket and weatherproof seal on outer sheath of cable
- Optional earthing washer for use with lead sheathed cable (see page 97)
- Standard neoprene seal suitable for use in operating temperatures ATEX (-60°C to 100°C), IECEX and cULus (-40°C to 100°C)
- Available with optional silicone seal for extreme temperatures
- Available with metric or NPT threads
- See pages 96–103 for related accessories

ORDERING EXAMPLE:

CAP84640 4 KX

Gland Type

Options

OPTIONS (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze
- 7 Aluminum
- 5 Silicone sealing ring with temperature range of -70°C to 220°C
- K1 Includes locknut and fiber washer
- K2 Includes locknut, fiber washer, earth tag, and shroud

SELECTION TABLE

Gland Size	Entry Thread Size 'A'				Thread Length 'B' Metric (NPT)	Cable Acceptance				Armour (max)	Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #	NPT Size	NPT Catalog #		Inner Sheath 'D'		Outer Sheath 'E'				Across Flats	Across Corners 'G'
						Min	Max	Min	Max				
5	M12	CAP846404	¼"	CAP848404	15 (12.0)	4.0	8.0	6.0	12.0	0.9	36	–	20.9
5	M16	CAP846594	⅜"	CAP848594	15 (12.0)	4.0	8.5	6.0	12.0	0.9	36	–	20.9
6	M16	CAP846504	⅜"	CAP848504	15 (12.0)	6.0	12.0	8.5	16.0	1.25	42	–	26.4
5	M20	CAP846674	½"	CAP848674	15 (20.2)	4.0	8.5	6.0	12.0	0.9	36	–	26.4
6	M20	CAP846694	½"	CAP848694	15 (20.2)	6.0	12.0	8.5	16.0	1.25	42	–	26.4
7	M20	CAP846604	½"	CAP848604	15 (20.2)	8.5	16.0	12.0	21.0	1.25	46	–	33.0
6	M25	CAP846774	¾"	CAP848774	15 (20.2)	6.0	12.0	8.5	16.0	1.25	42	–	33.0
7	M25	CAP846794	¾"	CAP848794	15 (20.2)	8.5	16.0	12.0	21.0	1.25	46	–	33.0
8	M25	CAP846704	¾"	CAP848704	15 (20.2)	12.0	20.5	16.0	27.5	1.6	56	–	45.1
8	M32	CAP846894	1"	CAP848894	15 (25.3)	12.0	21.0	16.0	27.5	1.6	56	–	45.1
9	M32	CAP846804	1"	CAP848804	15 (25.3)	16.0	27.5	21.0	34.0	1.6	63	–	52.8
9	M40	CAP846994	1½"	CAP848994	15 (26.0)	16.0	27.5	21.0	34.0	1.6	63	–	52.8
10	M40	CAP846904	1¼"	CAP848904	15 (26.0)	21.0	34.0	27.0	41.0	2.0	68	–	60.5
10	M50	CAP847094	1½"	CAP849094	15 (26.5)	21.0	34.0	27.0	41.0	2.0	68	–	60.5
11	M50	CAP847004	1½"	CAP849004	15 (26.5)	27.0	41.0	33.0	48.0	2.5	74	–	70.4
12	M63	CAP847294	2"	CAP849294	17 (27.2)	27.0	41.0	33.0	48.0	2.5	77	–	79.2
13	M63	CAP847204	2"	CAP849204	17 (27.2)	33.0	48.0	47.0	56.0	2.5	85	–	93.5
13	M75	CAP847394	2½"	CAP849494	18 (40.5)	40.0	56.0	47.0	65.0	2.5	85	–	93.5
14	M75	CAP847304	2½"	CAP849404	18 (40.5)	47.0	65.0	54.0	74.0	2.5	92	–	104.5
15	M90	CAP847794	3"	CAP849594	22 (42.0)	54.0	74.0	63.0	83.0	3.15	104	–	121.0
16	M90	CAP847504	3"	CAP849504	22 (42.0)	63.0	82.0	72.0	93.0	3.15	108	–	132.0
16	M90	CAP847574	3½"	CAP849604	N/A (43.2)	63.0	82.0	72.0*	93.0*	3.15	108	–	132.0
17	M110	CAP847794	4"	CAP849704	22 (44.5)	72.0	92.0	85.0	107.0	3.15	115	–	148.5

All dimensions in millimeters unless otherwise noted * CAP849604 "outer sheath" min: 85 max: 107.

Crouse-Hinds
by **E.T.N**

ADE 6F

ATEX
IECEX
cULus Listed for Class I, Zone 2
cULus Marine Listed for Class I,
Zone 2

CEPEL
GOST-R
NEPSI
NEMA 4X and IP68

4F

International Standards - Flameproof and Increased Safety

Gland Type:

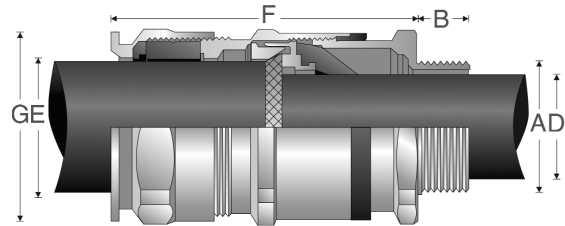
Armoured

Cable Type:

Steel wire armoured, steel wire braided, steel tape armoured and
braided marine shipboard

Certifications and Compliances:

- ATEX LCIE 97 6008X - Exd IIC / Exe II / Ex tD / Ex II 2GD
- IECEX LCI 05.0004X
- cULus Listed for Class I, Zone 2 AEx e II / Ex e II E310130
- cULus Marine Listed for Class I, Zone 2 AEx e II / Ex e II E314047
- NEMA 4X and IP68
- CEPEL
- GOST-R
- NEPSI



Features:

- Standard material is nickel-plated brass for superior corrosion resistance
- Armour clamping and bonding with no reversible components for easy installation, minimizing error
- Provides fully inspectable inner seal after installation
- Flameproof diaphragm seal on inner jacket does not damage cables exhibiting "cold-flow"; weatherproof seal on outer sheath of cable
- Deluge boot provides enhanced protection from water ingress
- Standard neoprene seal suitable for use in operating temperatures ATEX (-60°C to 100°C), IECEX and cULus (-40°C to 100°C)
- Available with metric or NPT threads
- See pages 96–103 for related accessories

ORDERING EXAMPLE:

CAP96559 4

Gland Type

Options

OPTIONS (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze

SELECTION TABLE

Gland Size	Entry Thread Size 'A'				Thread Length 'B' Metric (NPT)	Cable Acceptance				Armour (max)	Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #	NPT Size	NPT Catalog #		Inner Sheath 'D'		Outer Sheath 'E'				Across Flats	Across Corners 'G'
						Min	Max	Min	Max				
5	M16	CAP965594	⅜"	CAP967594	15 (12.0)	3.0	7.5	6.0	12.0	0.9	46.0	—	20.9
5	M20	CAP965674	½"	CAP967674	15 (20.2)	3.0	7.5	6.0	12.0	0.9	46.0	—	26.4
6	M20	CAP965694	½"	CAP967694	15 (20.2)	6.5	11.0	8.5	16.0	1.25	53.0	—	26.4
7	M20	CAP965604	½"	CAP967604	15 (20.2)	9.0	14.5	12.0	21.0	1.25	59.0	—	33.0
7	M25	CAP965794	¾"	CAP967794	15 (20.2)	9.0	14.5	12.0	21.0	1.25	59.0	—	33.0
8	M25	CAP965704	¾"	CAP967704	15 (20.2)	12.0	19.5	16.0	27.5	1.6	74.5	—	45.1
8	M32	CAP965894	1"	CAP967894	15 (25.3)	12.0	19.5	16.0	27.5	1.6	74.5	—	45.1
9	M32	CAP965804	1"	CAP967804	15 (25.3)	17.5	26.0	21.0	34.0	1.6	83.5	—	52.8
9	M40	CAP965994	1¼"	CAP967994	15 (26.0)	17.5	26.0	21.0	34.0	1.6	83.5	—	52.8
10	M40	CAP965904	1¼"	CAP967904	15 (26.0)	23.0	33.0	27.0	41.0	2.0	92.0	—	60.5
10	M50	CAP966094	1½"	CAP968094	16 (26.5)	23.0	33.0	27.0	41.0	2.0	92.0	—	60.5
11	M50	CAP966004	2"	CAP968294	16 (27.2)	28.5	41.0	33.0	48.0	2.5	104.0	—	70.4

Larger sizes available in ADE 4F design, see page 72.
All dimensions in millimeters unless otherwise noted.

4F ADE 6FC

**International Standards -
Flameproof and Increased Safety**

ATEX
IECEX
cULus Listed for Class I, Zone 2
cULus Marine Listed for Class I, Div. 1

CEPEL
GOST-R
NEMA 4X and IP68

4F

Gland Type:

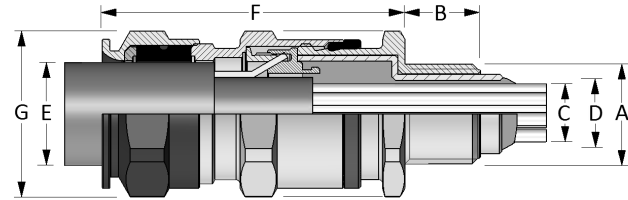
Armoured barrier

Cable Type:

Steel wire armoured, steel wire braided, steel tape armoured, braided marine shipboard and lead sheathed (with addition of earthing washer)

Certifications and Compliances:

- ATEX LCIE 97 ATEX 6008X - Exd IIC/Exe II/Ex tD/Ex II 2 GD
- IECEx LCI 05.0004X
- cULus Listed for Class I, Zone 2 AEx de II/Ex de II
- cULus Marine Listed for Class I, Division 1, Groups A, B, C, D
- NEMA 4X and IP68
- CEPEL-EX-558/05X
- GOST-R POCC FR Bo2011
- NEPSI N° GYJ071336U & GYJ071337U
- ABS approbation:
n° 10-HS 577243-PDA / P1836754-X
- DNV N° E-10892
- Lloyd's



Features

- Standard material is nickel-plated brass for superior corrosion resistance
- Armour clamping with no reversible components for easy installation, minimizing error
- Provides explosionproof compound seal (denoted by red back nut) on conductors and weatherproof seal on outer sheath of cable
- Deluge boot provides enhanced protection from water ingress
- Standard neoprene seal suitable for use in operating temperatures -60°C (-25°C UL) to 80°C
- Available with metric or NPT threads
- See pages 96–103 for related accessories

ORDERING EXAMPLE:

CAP96959 4 KX

Gland Type

Options

OPTIONS (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze
- 7 Aluminum
- K1 Includes locknut and fiber washer
- K2 Includes locknut, fiber washer, earth tag, and shroud

SELECTION TABLE

Gland Size	Entry Thread Size 'A'				Thread Length 'B' Metric (NPT)	Cable Acceptance					Armour (max)	Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #	NPT Size	NPT Catalog #		Inner Sheath and Cores			Outer Sheath 'E'				Across Flats	Across Corners 'G'
						Max Over Cores 'C'	Max Inner Sheath 'D'	Max No. of Cores	Min	Max				
5	M16	CAP969594	3/8"	CAP974594	15 (12.0)	6.5	7.5	6.0	6.0	12.0	0.9	46.0	–	20.9
5	M20	CAP969674	1/2"	CAP971674	15 (20.2)	6.5	7.5	6.0	6.0	12.0	0.9	46.0	–	26.4
6	M20	CAP969694	1/2"	CAP971694	15 (20.2)	9.5	11.0	6.0	8.5	16.0	1.25	53.0	–	26.4
7	M20	CAP969604	1/2"	CAP971604	15 (20.2)	12.0	14.5	10.0	12.0	21.0	1.25	59.0	–	33.0
7	M25	CAP969794	3/4"	CAP971794	15 (20.5)	12.0	14.5	10.0	12.0	21.0	1.25	59.0	–	33.0
8	M25	CAP969704	3/4"	CAP971704	15 (20.5)	17.0	19.5	21.0	16.0	27.5	1.6	74.5	–	45.1
8	M32	CAP969894	1"	CAP971894	15 (25.3)	17.0	19.5	21.0	16.0	27.5	1.6	74.5	–	45.1
9	M32	CAP969804	1"	CAP971804	15 (25.3)	23.0	28.0	42.0	21.0	34.0	1.6	83.5	–	52.8
9	M40	CAP969994	1 1/4"	CAP971994	15 (26.0)	23.0	28.0	42.0	21.0	34.0	1.6	83.5	–	52.8
10	M40	CAP969904	1 1/4"	CAP971904	15 (26.0)	29.0	33.0	60.0	27.0	41.0	2.0	92.0	–	60.5
10	M50	CAP970094	1 1/2"	CAP972094	16 (26.5)	29.0	33.0	60.0	27.0	41.0	2.0	92.0	–	60.5
11	M50	CAP970004	1 1/2"	CAP972004	16 (27.2)	36.5	41.0	80.0	33.0	48.0	2.5	104.0	–	70.4
12	M63	CAP970294	2"	CAP972274	17 (29.2)	43.0	48.0	100.0	40.0	56.0	2.5	108.0	–	79.2
13	M63	CAP970204	2"	CAP972204	17 (29.2)	50.0	56.0	100.0	46.0	65.0	2.5	118.0	–	93.5
13	M75	CAP970394	2 1/2"	CAP972494	18 (42.5)	50.0	56.0	100.0	46.0	65.0	2.5	118.0	–	93.5
14	M75	CAP970304	2 1/2"	CAP972404	18 (42.5)	59.0	65.0	120.0	54.0	74.0	2.5	124.0	–	104.5
14	–	–	3"	CAP972574	(44)	59.0	65.0	120.0	54.0	74.0	2.5	124.0	–	104.5
15	M90	CAP970594	3"	CAP972594	22 (44.0)	66.0	73.0	140.0	63.0	83.0	3.15	133.0	–	121.0
15	–	–	3 1/2"	CAP972694	(45.2)	66.0	73.0	140.0	63.0	83.0	3.15	133.0	–	121.0
16	M90	CAP970504	3"	CAP972504	22 (44.0)	75.0	82.0	140.0	72.0	93.0	3.15	137.0	–	132.0
16	–	–	3 1/2"	CAP972604	(45.2)	75.0	82.0**	140.0	72.0	93.0	3.15	137.0	–	132.0
17	M110	CAP970794	4"	CAP972704	22 (46.5)	85.0	92.0**	200.0	85.0	107.0	3.15	142.0	–	148.5

All dimensions in millimeters unless otherwise noted.

*Aluminum not currently available with UL marine certification.

**Contact Customer Service or your field sales representative for amended UL marine range.

Crouse-Hinds
by **EATON**

ADE 1FC

International Standards - Flameproof and Increased Safety

ATEX
IECEX
cULus Listed for Class I, Zone 2
UL Marine Listed for Class I, Div. 2

CEPEL
GOST-R
NEMA 4X and IP68

4F

Gland Type:

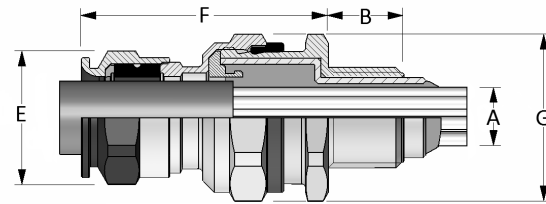
Non-armoured barrier

Cable Type:

Non-armoured, armoured and tray cable (does not terminate the armour)

Certifications and Compliances:

- LCIE 97 ATEX 6008X II GD - Exd IIC/Exe II/Ex tD
- IECEX LCI 05.0004X Ex c e IIC/Ex c e II/Ex tD
- cULus Listed for Class I, Zone 2 AEx de II/Ex de II
- UL Marine Listed for Class I, Division 2, Groups A, B, C, D
- NEMA 4X and IP68
- CEPEL EX-558/05X
- GOST-R POCC FR.B03126
- NEPSI N° GYJ071336U & GYJ071337U
- DNV N° E-10892
- ABS approbation:
n° 10-HS 577243-PDA / P1836754-X
- Lloyds



Features:

- Standard material is nickel-plated brass for superior corrosion resistance
- Provides a flameproof and weatherproof seal on outer sheath of cable
- Provides explosionproof compound seal (denoted by red back nut) on conductors
- Deluge boot provides enhanced protection from water ingress
- Standard neoprene seal suitable for use in operating temperatures -60°C (-25°C UL) to 80°C
- Available with metric or NPT threads
- See pages 96–103 for related accessories

ORDERING EXAMPLE:

CAP01959 4 KX	
Gland Type	Options

OPTIONS (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze
- 7 Aluminum
- K1 Includes locknut and fiber washer
- K2 Includes locknut, fiber washer, earth tag, and shroud

SELECTION TABLE

Gland Size	Entry Thread Size 'A'				Thread Length 'B' Metric (NPT)	Cable Acceptance Outer Sheath 'E'		Max No. Cores	Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #	NPT Size	NPT Catalog #		Min	Max			Across Flats	Across Corners 'G'
4	M16	CAP019594	⅜"	CAP011594	15 (12.0)	4.0	7.5	6.0	46.0	—	20.9
4	M20	CAP019674	½"	CAP011674	15 (22.2)	4.0	7.5	6.0	46.0	—	26.4
5	M20	CAP019694	½"	CAP011694	15 (22.2)	6.5	11.0	6.0	53.0	—	26.4
6	M20	CAP019604	½"	CAP011604	15 (22.2)	9.0	14.5	10.0	59.0	—	33.0
6	M25	CAP019794	¾"	CAP011794	15 (22.5)	9.0	14.5	10.0	59.0	—	33.0
7	M25	CAP019704	¾"	CAP011704	15 (22.5)	12.0	19.5	21.0	74.5	—	45.1
7	M32	CAP019894	1"	CAP011894	15 (27.3)	12.0	19.5	21.0	74.5	—	45.1
8	M32	CAP019804	1"	CAP011804	15 (27.3)	17.5	26.0	42.0	83.5	—	52.8
8	M40	CAP019994	1¼"	CAP011994	15 (28.0)	17.5	26.0	42.0	83.5	—	52.8
9	M40	CAP019904	1¼"	CAP011904	15 (28.0)	23.0	33.0	60.0	92.0	—	60.5
9	M50	CAP019094	1½"	CAP011094	16 (28.5)	23.0	33.0	60.0	92.0	—	60.5
10	M50	CAP019004	2"	CAP011004	16 (29.2)	28.5	41.0	80.0	104.0	—	70.4
10	M63	CAP019204	—	—	16	28.5	41.0	80.0	—	—	73.7
11	M63	CAP019294	2"	CAP011294	17 (29.2)	43.0	48.0	100.0	98.0	—	70.4
12	M63	CAP019274	2"	CAP011204	17 (29.2)	50.0	56.0	100.0	103.0	—	79.2
12	—	—	2½"	CAP011494	42.5	50.0	56.0	100.0	103.0	—	79.2
13	M75	CAP019304	2½"	CAP011404	18 (42.5)	59.0	65.0	120.0	111.0	—	93.5
13	—	—	3"	CAP012504	44	59.0	65.0	120.0	111.0	—	93.5
14	M90	CAP010594	3"	CAP012574	22 (44.0)	66.0	73.0	140.0	120.0	—	104.5
14	—	—	3½"	CAP012604	45.2	66.0	73.0	140.0	120.0	—	104.5
15	M90	CAP010504	3"	CAP012594	22 (44.0)	75.0	82.0	140.0	125.0	—	121.0
15	—	—	3½"	CAP012694	45.2	75.0	82.0**	140.0	125.0	—	121.0
16	M110	CAP010794	4"	CAP012704	22 (46.5)	85.0	92.0**	200.0	128.0	—	132.0

All dimensions in millimeters unless otherwise noted.

*Aluminum not currently available with UL marine certification.

**Contact Customer Service or your field sales representative for amended UL marine range.

Crouse-Hinds

by **E.T.N**

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75

4F

Ex-e

**International Standards -
Flameproof and Increased Safety**

Sizes M12-M16: PTB 99 ATEX IP66
3101 X
Sizes M20-M63: PTB 99 ATEX
3128 X
IECEX

4F

Gland Type:

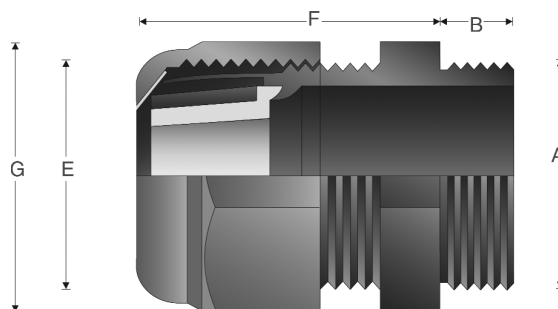
Non-armoured

Cable Type:

Non-armoured

Certifications and Compliances:

- Sizes M12-M16: PTB 99 ATEX 3101 X
Sizes M20-M63: PTB 99 ATEX 3128 X
Ex II 2 G Ex e II/Ex II 2 D Ex tD A21
- IECEX PTB 05.0004X
- IP66

**Features:**

- Standard material is high-impact resistant polyamide
- Forms weatherproof seal on outer sheath of cable
- Standard silicone seal suitable for use in operating temperatures -55° to 70°C (M12 and M16 for use in operating temperatures -20° to 70°C)
- Available with optional silicone seal for extreme temperatures
- Available with metric threads
- See page 101 for related accessories

SELECTION TABLE - SHORT THREAD

Gland Size	Entry Thread Size 'A'		Thread Length 'B' Metric	Cable Acceptance Outer Sheath 'E'		Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #		Min	Max		Across Flats	Across Corners 'G'
12	M12	GHG 960 1955 R 0001	8.0	4.0	7.0	19.3	15.0	16.5
16	M16	GHG 960 1955 R 0002	8.0	5.5	10.0	23.0	20.0	22.0
20	M20	GHG 960 1955 R 0003	8.0	5.5	13.0	25.0	24.0	26.4
25	M25	GHG 960 1955 R 0004	8.0	8.0	17.0	29.5	29.0	31.9
32	M32	GHG 960 1955 R 0005	10.0	12.0	21.0	35.5	36.0	39.6

SELECTION TABLE - LONG THREAD

Gland Size	Entry Thread Size 'A'		Thread Length 'B' Metric	Cable Acceptance		Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #		Outer Sheath 'E'			Across Flats	Across Corners 'G'
				Min	Max			
12	M12	GHG 960 1955 R 0021	8.0	4.0	7.0	19.3	15.0	16.5
16	M16	GHG 960 1955 R 0022	8.0	5.5	10.0	23.0	20.0	22.0
20	M20	GHG 960 1955 R 0023	8.0	5.5	13.0	25.0	24.0	26.4
25	M25	GHG 960 1955 R 0024	8.0	8.0	27.0	29.5	29.0	31.9
32	M32	GHG 960 1955 R 0025	10.0	12.0	21.0	35.5	36.0	39.6
40	M40	GHG 960 1955 R 0026	15.0	17.0	28.0	39.5	46.0	50.6
50	M50	GHG 960 1955 R 0027	16.0	22.0	35.0	44.0	55.0	60.5
63	M63	GHG 960 1955 R 0028	16.0	27.0	48.0	47.0	68.0	74.8

All dimensions in millimeters unless otherwise noted.

Ex-i

International Standards - Flameproof and Increased Safety

Sizes M12-M16: PTB 99 ATEX 3101 X
3101 X
Sizes M20-M63: PTB 99 ATEX 3128 X
3128 X
IECEX

4F

Gland Type:

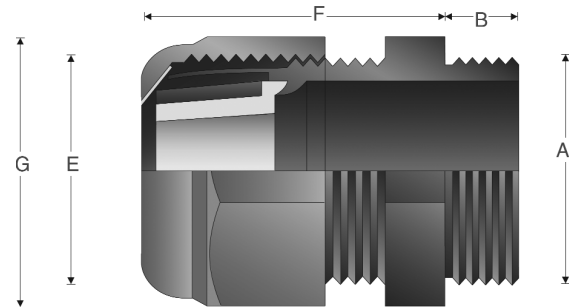
Non-armoured

Cable Type:

Non-armoured

Certifications and Compliances:

- Sizes M12-M16: PTB 99 ATEX 3101 X
Sizes M20-M63: PTB 99 ATEX 3128 X
Ex II 2 G Ex e II/Ex II 2 D Ex tD A21
- IECEX PTB 05.0004X
- IP66



Features:

- Standard material is high-impact resistant polyamide (gland nut is blue for intrinsically safe circuits)
- Forms weatherproof seal on outer sheath of cable
- Standard silicone seal suitable for use in operating temperatures -55° to 70°C (M12 and M16 for use in operating temperatures -20° to 70°C)
- Available with metric threads
- See page 101 for related accessories

SELECTION TABLE – SHORT THREAD

Gland Size	Entry Thread Size 'A'		Thread Length 'B' Metric	Cable Acceptance		Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #		Outer Sheath 'E'			Across Flats	Across Corners 'G'
				Min	Max			
12	M12	GHG 960 1955 R 0101	8.0	4.0	7.0	19.3	15.0	16.5
16	M16	GHG 960 1955 R 0102	8.0	5.5	10.0	23.0	20.0	22.0
20	M20	GHG 960 1955 R 0103	8.0	5.5	13.0	25.0	24.0	26.4
25	M25	GHG 960 1955 R 0104	8.0	8.0	17.0	29.5	29.0	31.9
32	M32	GHG 960 1955 R 0105	10.0	12.0	21.0	35.5	36.0	39.6

SELECTION TABLE – LONG THREAD

Gland Size	Entry Thread Size 'A'		Thread Length 'B' Metric	Cable Acceptance		Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #		Outer Sheath 'E'			Across Flats	Across Corners 'G'
				Min	Max			
12	M12	GHG 960 1955 R 0121	12.0	4.0	7.0	19.3	15.0	16.5
16	M16	GHG 960 1955 R 0122	12.0	5.5	10.0	23.0	20.0	22.0
20	M20	GHG 960 1955 R 0123	13.0	5.5	13.0	25.0	24.0	26.4
25	M25	GHG 960 1955 R 0124	13.0	8.0	17.0	29.5	29.0	31.9
32	M32	GHG 960 1955 R 0125	15.0	12.0	21.0	35.5	36.0	39.6
40	M40	GHG 960 1955 R 0126	15.0	17.0	28.0	39.5	46.0	50.6
50	M50	GHG 960 1955 R 0127	16.0	22.0	35.0	44.0	55.0	60.5
63	M63	GHG 960 1955 R 0128	16.0	27.0	48.0	47.0	68.0	74.8

All dimensions in millimeters unless otherwise noted.

International Standards - Flameproof and Increased Safety

4F

Gland Type:

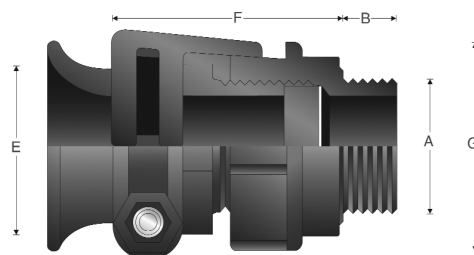
Non-armoured

Cable Type:

Non-armoured

Certifications and Compliances:

- ATEX PTB 00ATEX3121X Ex II 2 G Ex e II/Ex II 2 D Ex tD A21
- IP66



Features:

- Standard material is high-impact resistant polyamide
- Forms weatherproof seal on outer sheath of cable
- Flared rear seal provides protection for cable
- Standard neoprene seal suitable for use in operating temperatures -40° to 85°C
- Available with metric threads
- See page 101 for related accessories

SELECTION TABLE

Gland Size	Entry Thread Size 'A'		Thread Length 'B' Metric	Cable Acceptance		Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #		Outer Sheath 'E'			Across Flats	Across Corners 'G'
				Min	Max			
20	M20	GHG 960 1949 R0111	15.0	8.0	13.0	49.0	26.0	28.6
25	M25	GHG 960 1949 R0112	15.0	11.0	16.0	50.0	32.0	35.2
32	M32	GHG 960 1949 R0113	15.0	15.0	20.0	65.0	41.0	45.1
40	M40	GHG 960 1949 R0114	15.0	19.0	27.0	71.0	50.0	55.0
50	M50	GHG 960 1949 R0115	16.0	26.0	34.0	79.0	60.0	66.0
60	M60	GHG 960 1949 R0116	16.0	35.0	46.0	89.0	75.0	82.5

All dimensions in millimeters unless otherwise noted.

Enlargement and Multiple

International Standards - Flameproof and Increased Safety

Sizes M16: PTB 99 ATEX 3101 X
 Sizes M20-M63: PTB 99 ATEX
 3128 X
 IECEx

IP66

4F

Gland Type:

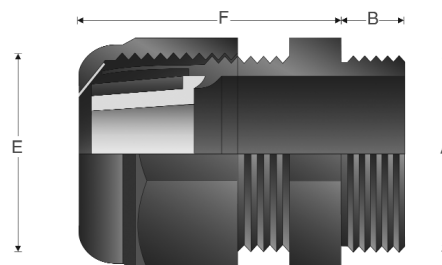
Non-armoured

Cable Type:

Non-armoured

Certifications and Compliances:

- Sizes M16: PTB 99 ATEX 3101 X
 Sizes M20-M63: PTB 99 ATEX 3128 X
 Ex II 2 G Ex e II/Ex II 2 D Ex tD A21
- IECEx PTB 05.0004X
- IP66



Features:

- Standard material is high-impact resistant polyamide
- Forms weatherproof seal on outer sheath of cable
- Provides reduced entry threads for larger gland size
- Standard silicone seal suitable for use in operating temperatures -55° to 70°C (M16 for use in operating temperatures -20° to 70°C)
- Available with metric threads
- See page 101 for related accessories

SELECTION TABLE – ENLARGEMENT

Gland Size	Entry Thread Size 'A'		Thread Length 'B' Metric	Cable Acceptance		Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #		Outer Sheath 'E'			Across Flats	Across Corners 'G'
				Min	Max			
16/20	M16	GHG 960 1956 R0002	12.0	5.5	13.0	25.0	24.0	26.4
20/25	M20	GHG 960 1956 R0003	13.0	8.0	17.0	29.5	29.0	31.9
25/32	M25	GHG 960 1956 R0004	13.0	12.0	21.0	35.5	36.0	39.6
32/40	M32	GHG 960 1956 R0005	15.0	16.0	28.0	39.5	46.0	50.6
40/50	M40	GHG 960 1956 R0006	15.0	21.0	35.0	44.0	55.0	60.5
50/63	M50	GHG 960 1956 R0007	16.0	27.0	48.0	47.0	68.0	74.8

SELECTION TABLE – MULTIPLE

Gland Size	Entry Thread Size 'A'		Thread Length 'B' Metric	Cable Acceptance		Maximum Number of Conductors	Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #		Outer Sheath 'E'				Across Flats	Across Corners 'G'
				Min	Max				
25	M25	GHG 960 1955 R0054	8.0	4.5	7.0	2	29.5	36.0	39.6
32	M32	GHG 960 1955 R0055	10.0	4.5	7.0	4	39.5	46.0	50.6

All dimensions in millimeters unless otherwise noted.

International Standards - Industrial

4F

Gland Type:

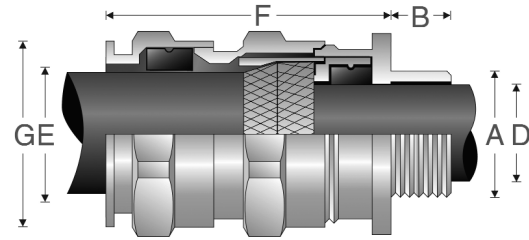
Armoured

Cable Type:

Steel wire armoured, steel wire braided, steel tape armoured, braided marine shipboard lead sheathed (with addition of earthing washer) and tray cable

Certifications and Compliances:

- NEMA 4X and IP68



Features:

- Standard material is nickel-plated brass for superior corrosion resistance
- Armour clamping and bonding with no reversible components for easy installation, minimizing error
- Provides seal on inner jacket and weatherproof seal on outer sheath of the cable
- An optional earthing washer for use with lead sheathed cable (see page 97)
- Standard neoprene seal suitable for use in operating temperatures of -60°C to 100°C
- Available with optional silicone seal for extreme temperatures
- Available with metric or NPT threads
- See pages 96–103 for related accessories

ORDERING EXAMPLE:

CAP94640 4

Gland Type

Options

OPTIONS (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze
- 7 Aluminum
- 5 Silicone sealing ring with temperature range of -70° C to 220° C

Available in stainless steel – contact customer service

SELECTION TABLE

Gland Size	Entry Thread Size 'A'				Thread Length 'B' Metric (NPT)	Cable Acceptance				Armour (max)	Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #	NPT Size	NPT Catalog #		Inner Sheath 'D'		Outer Sheath 'E'				Across Flats	Across Corners 'G'
						Min	Max	Min	Max				
5	M12	CAP946404	¼"	CAP948404	15 (12.0)	4.0	8.0	6.0	12.0	0.9	36.0	–	20.9
5	M16	CAP946594	⅜"	CAP948594	15 (12.0)	4.0	8.5	6.0	12.0	0.9	36.0	–	20.9
6	M16	CAP946504	⅜"	CAP948504	15 (12.0)	6.0	12.0	8.5	16.0	1.25	42.0	–	26.4
5	M20	CAP946674	½"	CAP948674	15 (20.2)	4.0	8.5	6.0	12.0	0.9	36.0	–	26.4
6	M20	CAP946694	½"	CAP948694	15 (20.2)	6.0	12.0	8.5	16.0	1.25	42.0	–	26.4
7	M20	CAP946604	½"	CAP948604	15 (20.2)	8.5	16.0	12.0	21.0	1.25	46.0	–	33.0
6	M25	CAP946774	¾"	CAP948774	15 (20.2)	6.0	12.0	8.5	16.0	1.25	42.0	–	33.0
7	M25	CAP946794	¾"	CAP948795	15 (20.2)	8.5	16.0	12.0	21.0	1.25	46.0	–	33.0
8	M25	CAP946704	¾"	CAP948704	15 (20.2)	12.0	20.5	16.0	27.5	1.6	56.0	–	45.1
8	M32	CAP946894	1"	CAP948894	15 (25.3)	12.0	21.0	16.0	27.5	1.6	56.0	–	45.1
9	M32	CAP946804	1"	CAP948804	15 (25.3)	16.0	27.5	21.0	34.0	1.6	63.0	–	52.8
9	M40	CAP946994	1¼"	CAP948994	15 (26.0)	16.0	27.5	21.0	34.0	1.6	63.0	–	52.8
10	M40	CAP946904	1¼"	CAP948904	15 (26.0)	21.0	34.0	27.0	41.0	2.0	68.0	–	60.5
10	M50	CAP947094	1½"	CAP949904	16 (26.5)	21.0	34.0	27.0	41.0	2.0	68.0	–	60.5
11	M50	CAP947004	1½"	CAP949004	16 (26.5)	27.0	41.0	33.0	48.0	2.5	74.0	–	70.4
12	M63	CAP947294	2"	CAP949294	17 (27.2)	27.0	41.0	33.0	48.0	2.5	77.0	–	79.2
13	M63	CAP947204	2"	CAP949204	17 (27.2)	33.0	48.0	40.0	56.0	2.5	85.0	–	93.5
13	M75	CAP947394	2½"	CAP949949	18 (40.5)	40.0	56.0	47.0	65.0	2.5	85.0	–	93.5
14	M75	CAP947304	2½"	CAP949404	18 (40.5)	47.0	65.0	54.0	74.0	2.5	92.0	–	104.5
15	M90	CAP947594	3"	CAP949564	22 (42.0)	54.0	74.0	63.0	83.0	3.15	104.0	–	121.0
16	M90	CAP947504	3"	CAP949504	22 (42.0)	63.0	82.0	72.0	93.0	3.15	108.0	–	132.0
16	–	–	3½"	CAP949604	– (43.2)	63.0	82.0	72.0	93.0	3.15	108.0	–	132.0
17	M110	CAP947794	4"	CAP949704	22 (44.5)	72.0	92.0	85.0	107.0	3.15	115.0	–	148.5

All dimensions in millimeters unless otherwise noted.

Gland Type:

Armoured barrier, TECK armoured, and non-armoured barrier

Cable Type:

Metal-clad and TECK (interlocked and continuously welded corrugated armoured), unarmoured, and tray cable

Certifications and Compliances:

- Class I, Division 1, Groups A, B, C, D
- Class II, Groups E, F, G
- Class III
- NEMA 6P
- UL/cULus Listed - File No. E122485
- IECEX/ATEX (Pending)

Features:

- Designed to minimize the opportunity for incorrect assembly
- Simple selection process and field preparation aids to ensure the right gland is selected every time
- Full coverage of all popular cables and hub sizes, ensuring a perfect seal in all instances
- Use of nickel-plated brass and stainless steel to increase corrosion resistance and maintain integrity in the harshest environments
- Chico® LiquidSeal, an innovative liquid compound with fast gel and cure times, reduces waiting times
- Complete with integral dam to facilitate liquid pour
- Integral union design reduces the number of times the gland has to be assembled and disassembled during installation

- Mating components have generous lead-ins to ensure that assembly is as trouble-free as possible, even with the heaviest cables
- Use of neoprene seal allows use in temperatures from -40°C to +60°C; for specific temperature information, please contact your local sales representative
- Metric size threads allow interfacing to European machinery
- Wide range of global certifications and approvals
- See page 102 for related accessories

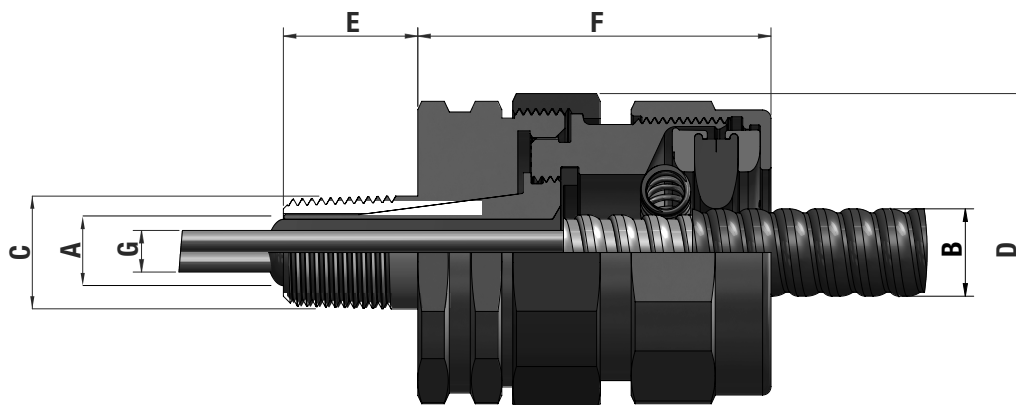


SELECTION TABLE

Entry Thread 'C'	NPT Catalog #	Entry Thread 'C' (Metric Option)	Metric Catalog #	Over Conductors O.D. Max. Inches 'G'	'A' Armour O.D.		'B' Cable O.D.†		Across Corners 'D'	Thread Length NPT 'E' (Metric mm.)	Length 'F'
					Min.	Max.	Min.	Max.			
1/2"	TMCX050 1	M20	TMCXM20 1	0.480	0.40 (10.16)	0.86 (21.84)	0.49 (12.45)	0.90 (22.86)	1.75 (44.45)	1.00 (25.40)	3.05 (77.47)
1/2"	TMCX050 2	M20	TMCXM20 2	0.480	0.56 (14.22)	1.14 (28.96)	0.65 (16.51)	1.18 (29.97)	2.25 (57.15)	1.00 (25.40)	3.18 (80.77)
3/4"	TMCX075 1	M25	TMCXM25 1	0.713	0.40 (10.16)	0.86 (21.84)	0.49 (12.45)	0.90 (22.86)	1.75 (44.45)	1.00 (25.40)	3.05 (77.47)
3/4"	TMCX075 2	M25	TMCXM25 2	0.713	0.56 (14.22)	1.14 (28.96)	0.65 (16.51)	1.18 (29.97)	2.25 (57.15)	1.00 (25.40)	3.18 (80.77)
1"	TMCX100 1	M32	TMCXM32 1	0.939	0.56 (14.22)	1.14 (28.96)	0.65 (16.51)	1.18 (29.97)	2.25 (57.15)	1.08 (27.40)	3.18 (80.77)
1"	TMCX100 2	M32	TMCXM32 2	0.939	0.78 (19.81)	1.35 (34.29)	0.87 (22.10)	1.39 (35.31)	2.56 (65.02)	1.08 (27.40)	3.30 (83.82)
1 1/4"	TMCX125 1	M40	TMCXM40 1	1.172	0.78 (19.81)	1.35 (34.29)	0.87 (22.10)	1.39 (35.31)	2.56 (65.02)	1.08 (27.40)	3.30 (83.82)

All dimensions in inches; metric millimeters shown in parenthesis. Sizes 1 1/2" and above will be available soon.

†When making your cable gland selection based on Cable O.D., be sure to also observe the Over Conductors O.D. dimension.



4F

Terminator™ II TMCX**North American Standards -
Explosionproof**UL/cULus Listed
Cl. I, Div. 1, Groups A, B, C, D
Cl. II, Groups E, F, G
Cl. IIINEMA 6P
IECEx/ATEX (Pending)

4F

Catalog Numbering System:**TMCX****050****1****NP****L****Hub Size**

NPT	Hub (in.)	Metric	Hub (mm.)
050	½"	M20	20
075	¾"	M25	25
100	1"	M32	32
125	1-¼"	M40	40

Cable Sealing Range

Hub Size Code	Thread		Sealing Range Code	Standard Cable Sealing Range
050	½"	NPT	1	0.49" - 0.90"
			2	0.65" - 1.18"
075	¾"	NPT	1	0.49" - 0.90"
			2	0.65" - 1.18"
100	1"	NPT	1	0.65" - 1.18"
			2	0.87" - 1.39"
125	1-¼"	NPT	1	0.87" - 1.39"
M20	M20	ISO	1	12.4 mm - 22.8 mm
			2	16.5 mm - 29.9 mm
M25	M25	ISO	1	12.4 mm - 22.8 mm
			2	16.5 mm - 29.9 mm
M32	M32	ISO	1	16.5 mm - 29.9 mm
			2	22.0 mm - 35.3 mm
M40	M40	ISO	1	22.0 mm - 35.3 mm

Material

BLANK	Aluminum
SS	316 Stainless Steel
NP	Nickel-plated Brass

Compound Type

BLANK	TSC
L	Liquid

Gland Type:

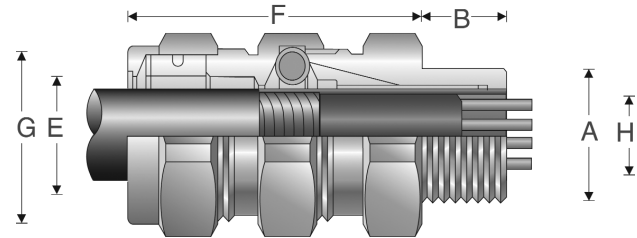
Armoured barrier, TECK armoured and non-armoured barrier

Cable Type:

Metal-clad (interlocked or continuously welded corrugated armoured), non-armoured and tray cable

Certifications and Compliances:

- UL Listed, CSA Certified Class I, Div. 1, Groups, A, B, C, D; Class II; Class III – UL File E122485, CSA File LR13046
- NEMA 4 and IP56 rated
- Wet locations

**Features:**

- Standard material is aluminum
- Stainless steel copper-plated spring provides grounding continuity of cable armour (MC cable only)
- Provides explosionproof compound seal on conductors and watertight seal on outer sheath of cable
- Standard neoprene seal suitable for use in operating temperatures -25° to 60°C
- Cold Shrink™ Kit is available for extra protection in aggressive environments (see page 102)
- Available with NPT threads
- See page 102 for related accessories

ORDERING EXAMPLE:

TMCX165 -BR

Gland Type Options

OPTIONS (add after gland type):

-BR Brass construction (i.e., TMCX285-BR)
-NP Nickel-plate finish (i.e., TMCX285-BR-NP)

SELECTION TABLE

Entry Thread Size 'A'		Thread Length 'B' NPT	Cable Acceptance				Gland Length 'F' (less entry)	Hexagon Dimensions	
NPT Size	NPT Catalog #		Armour Range 'H'		Outer Sheath 'E'			Across Flats	Across Corners 'G'
			Min	Max	Min	Max			
1/2"	TMCX165	0.750	0.440	0.650	0.490	0.781	2.625	1.250	1.375
3/4"	TMCX285	0.781	0.600	0.850	0.650	1.000	2.875	1.500	1.625
1"	TMCX3112	0.938	0.800	1.120	0.850	1.313	3.125	1.875	2.000
1 1/4"	TMCX4140	0.969	1.100	1.400	1.150	1.625	3.125	2.250	2.438
1 1/2"	TMCX5161	0.969	1.330	1.610	1.380	1.781	3.375	2.500	2.750
2"	TMCX6206	1.000	1.570	2.060	1.630	2.313	5.313	3.250	3.500
2 1/2"	TMCX7247	1.438	1.930	2.470	1.990	2.719	6.063	3.750	4.000
3"	TMCX8302	1.438	2.450	3.020	2.525	3.281	6.063	4.500	4.875
3 1/2"	TMCX9352	1.625	2.950	3.520	3.025	3.781	7.750	5.000	5.375
4"	TMCX10402	1.625	3.500	4.020	3.585	4.281	8.313	5.500	5.875

All dimensions in inches unless otherwise noted.

4F ADE 6FC

North American Standards - Explosionproof

ATEX
IECEX
cULus Listed for Class I, Zone 2
cULus Marine Listed for Class I, Div. 1

CEPEL
GOST-R
NEMA 4X and IP68

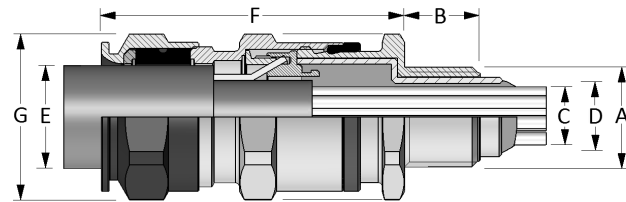
4F

Gland Type:

Armoured barrier

Cable Type:

Steel wire armoured, steel wire braided, steel tape armoured, braided marine shipboard and lead sheathed (with addition of earthing washer)



Certifications and Compliances:

- ATEX LCIE 97 ATEX 6008X - Exd IIC/Exe II/Ex tD/Ex II 2 GD
- IECEX LCI 05.0004X
- cULus Listed for Class I, Zone 2 AEx de II/Ex de II
- cULus Marine Listed for Class I, Division 1, Groups A, B, C, D
- NEMA 4X and IP68
- CEPEL-EX-558/05X
- GOST-R POCC FR Bo2011
- NEPSI N° GYJ071336U & GYJ071337U
- ABS approbation:
n° 10-HS 577243-PDA / P1836754-X
- DNV N° E-10892
- Lloyds

Features:

- Standard material is nickel-plated brass for superior corrosion resistance
- Armour clamping with no reversible components for easy installation, minimizing error
- Provides explosionproof compound seal (denoted by red back nut) on conductors and weatherproof seal on outer sheath of cable
- Deluge boot provides enhanced protection from water ingress
- Standard neoprene seal suitable for use in operating temperatures -60°C (-25°C UL) to 80°C
- Available with metric or NPT threads
- See pages 96–99 for related accessories

ORDERING EXAMPLE:

CAP96959 4 KX

Gland Type

Options

OPTIONS (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze
- 7 Aluminum
- K1 Includes locknut and fiber washer
- K2 Includes locknut, fiber washer, earth tag, and shroud

SELECTION TABLE

Gland Size	Entry Thread Size 'A'				Thread Length 'B' Metric (NPT)	Cable Acceptance					Armour (max)	Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #	NPT Size	NPT Catalog #		Inner Sheath and Cores			Outer Sheath 'E'				Across Flats	Across Corners 'G'
						Max Over Cores 'C'	Max Inner Sheath 'D'	Max No. of Cores	Min	Max				
5	M16	CAP969594	3/8"	CAP974594	15 (12.0)	6.5	7.5	6.0	6.0	12.0	0.9	46.0	–	20.9
5	M20	CAP969674	1/2"	CAP971674	15 (20.2)	6.5	7.5	6.0	6.0	12.0	0.9	46.0	–	26.4
6	M20	CAP969694	1/2"	CAP971674	15 (20.2)	9.5	11.0	6.0	8.5	16.0	1.25	53.0	–	26.4
7	M20	CAP969604	1/2"	CAP971604	15 (20.2)	12.0	14.5	10.0	12.0	21.0	1.25	59.0	–	33.0
7	M25	CAP969794	3/4"	CAP971794	15 (20.5)	12.0	14.5	10.0	12.0	21.0	1.25	59.0	–	33.0
8	M25	CAP969704	3/4"	CAP971704	15 (20.5)	17.0	19.5	21.0	16.0	27.5	1.6	74.5	–	45.1
8	M32	CAP969894	1"	CAP971894	15 (25.3)	17.0	19.5	21.0	16.0	27.5	1.6	74.5	–	45.1
9	M32	CAP969804	1"	CAP971804	15 (25.3)	23.0	28.0	42.0	21.0	34.0	1.6	83.5	–	52.8
9	M40	CAP969994	1 1/4"	CAP971994	15 (26.0)	23.0	28.0	42.0	21.0	34.0	1.6	83.5	–	52.8
10	M40	CAP969904	1 1/4"	CAP971904	15 (26.0)	29.0	33.0	60.0	27.0	41.0	2.0	92.0	–	60.5
10	M50	CAP970094	1 1/2"	CAP972094	16 (26.5)	29.0	33.0	60.0	27.0	41.0	2.0	92.0	–	60.5
11	M50	CAP970004	1 1/2"	CAP972004	16 (27.2)	36.5	41.0	80.0	33.0	48.0	2.5	104.0	–	70.4
12	M63	CAP970294	2"	CAP972274	17 (29.2)	43.0	48.0	100.0	40.0	56.0	2.5	108.0	–	79.2
13	M63	CAP970204	2"	CAP972204	17 (29.2)	50.0	56.0	100.0	46.0	65.0	2.5	118.0	–	93.5
13	M75	CAP970394	2 1/2"	CAP972494	18 (42.5)	50.0	56.0	100.0	46.0	65.0	2.5	118.0	–	93.5
14	M75	CAP970304	2 1/2"	CAP972404	18 (42.5)	59.0	65.0	120.0	54.0	74.0	2.5	124.0	–	104.5
14	–	–	3"	CAP972574	(44)	59.0	65.0	120.0	54.0	74.0	2.5	124.0	–	104.5
15	M90	CAP970594	3"	CAP972594	22 (44.0)	66.0	73.0	140.0	63.0	83.0	3.15	133.0	–	121.0
15	–	–	3 1/2"	CAP972694	(45.2)	66.0	73.0	140.0	63.0	83.0	3.15	133.0	–	121.0
16	M90	CAP970504	3"	CAP972504	22 (44.0)	75.0	82.0	140.0	72.0	93.0	3.15	137.0	–	132.0
16	–	–	3 1/2"	CAP972604	(45.2)	75.0	82.0**	140.0	72.0	93.0	3.15	137.0	–	132.0
17	M110	CAP970794	4"	CAP972704	22 (46.5)	85.0	92.0**	200.0	85.0	107.0	3.15	142.0	–	148.5

All dimensions in millimeters unless otherwise noted.

*Aluminum not currently available with UL marine certification.

**Contact Customer Service or your field sales representative for amended UL marine range.

Gland Type:

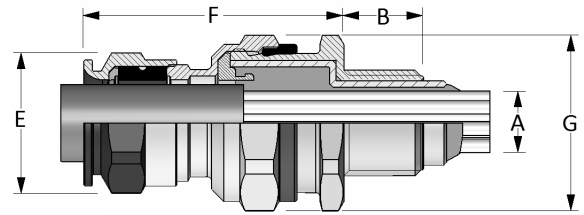
Non-armoured barrier

Cable Type:

Non-armoured, armoured and tray cable (does not terminate the armour)

Certifications and Compliances:

- LCIE 97 ATEX 6008X II GD - Exd IIC/Exe II/Ex tD
- IECEX LCI 05.0004X Ex c e IIC/Ex c e II/Ex tD
- cULus Listed for Class I, Zone 2 AEx de II/Ex de II
- UL Marine Listed for Class I, Division 2, Groups A, B, C, D
- NEMA 4X and IP68
- CEPEL EX-558/05X
- GOST-R POCC FR.B03126
- NEPSI N° GYJ071336U & GYJ071337U
- DNV N° E-10892
- ABS approbation:
n° 10-HS 577243-PDA / P1836754-X
- Lloyds

**Features:**

- Standard material is nickel-plated brass for superior corrosion resistance
- Provides a flameproof and weatherproof seal on outer sheath of cable
- Provides explosionproof compound seal (denoted by red back nut) on conductors
- Deluge boot provides enhanced protection from water ingress
- Standard neoprene seal suitable for use in operating temperatures -60°C (-25°C UL) to 80°C
- Available with metric or NPT threads
- See pages 96–99 for related accessories

ORDERING EXAMPLE:

CAP01959 4 KX

Gland Type Options

OPTIONS (replace last digit with option number):

- 9 Stainless steel (316L)
- 8 Bronze
- 7 Aluminum
- K1 Includes locknut and fiber washer
- K2 Includes locknut, fiber washer, earth tag, and shroud

SELECTION TABLE

Gland Size	Entry Thread Size 'A'				Thread Length 'B' Metric (NPT)	Cable Acceptance		Max No. Cores	Gland Length 'F' (less entry)	Hexagon Dimensions	
	Metric Size	Metric Catalog #	NPT Size	NPT Catalog #		Outer Sheath 'E'				Across Flats	Across Corners 'G'
						Min	Max				
4	M16	CAP019594	3/8"	CAP011594	15 (12.0)	4.0	7.5	6.0	46.0	—	20.9
4	M20	CAP019674	1/2"	CAP011674	15 (22.2)	4.0	7.5	6.0	46.0	—	26.4
5	M20	CAP019694	1/2"	CAP011694	15 (22.2)	6.5	11.0	6.0	53.0	—	26.4
6	M20	CAP019604	1/2"	CAP011604	15 (22.2)	9.0	14.5	10.0	59.0	—	33.0
6	M25	CAP019794	3/4"	CAP011794	15 (22.5)	9.0	14.5	10.0	59.0	—	33.0
7	M25	CAP019704	3/4"	CAP011704	15 (22.5)	12.0	19.5	21.0	74.5	—	45.1
7	M32	CAP019894	1"	CAP011894	15 (27.3)	12.0	19.5	21.0	74.5	—	45.1
8	M32	CAP019804	1"	CAP011804	15 (27.3)	17.5	26.0	42.0	83.5	—	52.8
8	M40	CAP019994	1 1/4"	CAP011994	15 (28.0)	17.5	26.0	42.0	83.5	—	52.8
9	M40	CAP019904	1 1/4"	CAP011904	15 (28.0)	23.0	33.0	60.0	92.0	—	60.5
9	M50	CAP019094	1 1/2"	CAP011094	16 (28.5)	23.0	33.0	60.0	92.0	—	60.5
10	M50	CAP019004	2"	CAP011004	16 (29.2)	28.5	41.0	80.0	104.0	—	70.4
10	M63	CAP019204	—	—	16	28.5	41.0	80.0	—	—	73.7
11	M63	CAP019294	2"	CAP011294	17 (29.2)	43.0	48.0	100.0	98.0	—	70.4
12	M63	CAP019274	2"	CAP011204	17 (29.2)	50.0	56.0	100.0	103.0	—	79.2
12	—	—	2 1/2"	CAP011494	42.5	50.0	56.0	100.0	103.0	—	79.2
13	M75	CAP019304	2 1/2"	CAP011404	18 (42.5)	59.0	65.0	120.0	111.0	—	93.5
13	—	—	3"	CAP012504	44	59.0	65.0	120.0	111.0	—	93.5
14	M90	CAP010594	3"	CAP012574	22 (44.0)	66.0	73.0	140.0	120.0	—	104.5
14	—	—	3 1/2"	CAP012604	45.2	66.0	73.0	140.0	120.0	—	104.5
15	M90	CAP010504	3"	CAP012594	22 (44.0)	75.0	82.0	140.0	125.0	—	121.0
15	—	—	3 1/2"	CAP012694	45.2	75.0	82.0**	140.0	125.0	—	121.0
16	M110	CAP010794	4"	CAP012704	22 (46.5)	85.0	92.0**	200.0	128.0	—	132.0

All dimensions in millimeters unless otherwise noted.

*Aluminum not currently available with UL marine certification.

**Contact Customer Service or your field sales representative for amended UL marine range.

4F

Gland Type:

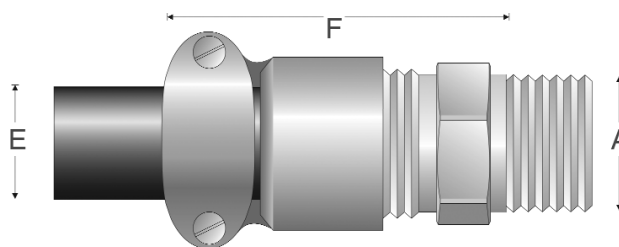
Portable cord connector

Cable Type:

Non-armoured and tray cable

Certifications and Compliances:

- CSA Certified Class I, Div. 1, Groups C, D
- Class II, Div. 1 & 2, Groups E, F, G
- Class III – CSA File LR13046

**CGBS Features:**

- Body – steel with zinc electroplate and chromate finish coat
- Gland nut – aluminum
- Body well for Chico A sealing compound (for ordering information please contact customer service)
- Standard neoprene seal suitable for use in operating temperatures -25° to 40°C
- Available with NPT threads

SELECTION TABLE

Entry Thread Size 'A'		Form	Outer Sheath 'E'		Gland Length 'F' (less entry)
NPT Size	NPT Catalog #		Min	Max	
1/2"	CGBS1013	A	0.312	0.437	5 1/4"
3/4"	CGBS2013	A	0.312	0.437	5 1/4"
3/4"	CGBS2014	A	0.375	0.500	5 1/4"
1"	CGBS3015	B	0.500	0.625	2 7/8"
1"	CGBS3016	B	0.625	0.750	2 15/16"
1 1/4"	CGBS4017	B	0.750	0.875	2 3/16"
1 1/4"	CGBS4018	B	0.875	1.000	3 1/2"
1 1/4"	CGBS4019	B	1.000	1.188	3 9/16"

All dimensions in inches unless otherwise noted.

Gland Type:

Portable cord connector

Cable Type:

Non-armoured

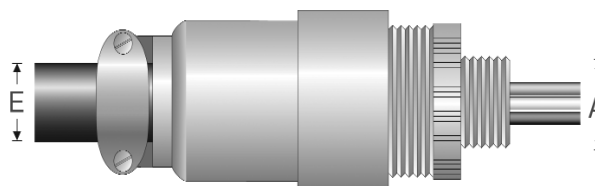
Certifications and Compliances:

- UL, cUL Listed Class I, Div. 1, Groups B, C, D
- Class II, Div. 1, Groups F, G – UL File E10279

SELECTION TABLE

Entry Thread Size 'A'		Outer Sheath 'E'	
NPT Size	NPT Catalog #	Min	Max
3/4"	EBY2672	0.250	0.437
3/4"	EBY2682	0.375	0.500
3/4"	EBY26102	0.500	0.625

All dimensions in inches unless otherwise noted.

**EBY Features:**

- Standard material is aluminum
- Factory sealed conductors and seal on outer sheath of cable
- Three, 12-inch long, #12 type SF-2 (150°C rating) stranded pigtails; two circuit wires and one identified grounding wire
- Three pressure connectors for 3-conductor cord, range #18 to #12 AWG
- Standard neoprene seal suitable for use in operating temperatures -25° to 40°C
- Available with NPT threads

North American Standards - General Purpose

Gland Type:

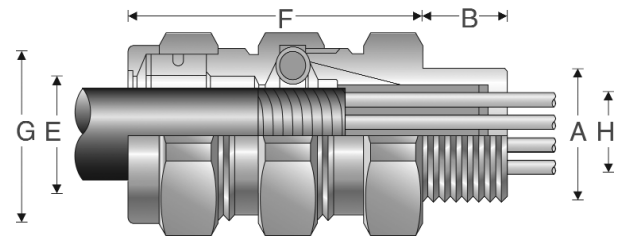
Armoured and TECK armoured

Cable Type:

Metal-clad (interlocked or continuously welded corrugated armoured) and TECK

Certifications and Compliances:

- UL Listed – UL File E36379
- CSA Listed – CSA File LR291
- NEMA 4 and IP56
- Wet locations



Features:

- Standard material is aluminum
- Stainless steel copper-plated spring provides grounding continuity of cable armour
- Watertight seal on outer sheath of cable
- Standard neoprene seal suitable for use in operating temperatures -25° to 60°C
- Cold Shrink™ Kit is available for extra protection in aggressive environments (see page 102)
- Available with NPT threads
- See page 102 for related accessories

ORDERING EXAMPLE:

TMC165 -BR

Gland Type Options

OPTIONS (add after gland type):

- BR Brass construction (i.e., TMC285-BR)
- NP Nickel-plate finish (i.e., TMC285-BR-NP)

SELECTION TABLE

Entry Thread Size 'A'		Thread Length 'B' NPT	Cable Acceptance				Gland Length 'F' (less entry)	Hexagon Dimensions	
NPT Size	NPT Catalog #		Armour Range 'H'		Outer Sheath 'E'			Across Flats	Across Corners 'G'
			Min	Max	Min	Max			
½"	TMC165	0.750	0.440	0.650	0.490	0.781	2.375	1.250	1.375
¾"	TMC285	0.781	0.600	0.850	0.650	1.000	2.625	1.500	1.625
1"	TMC3112	0.938	0.800	1.120	0.850	1.313	2.625	1.875	2.000
1¼"	TMC4140	0.969	1.100	1.400	1.150	1.625	2.750	2.250	2.438
1½"	TMC5161	0.969	1.330	1.610	1.380	1.781	2.750	2.500	2.75
2"	TMC6206	1.000	1.570	2.060	1.630	2.313	4.500	3.250	3.500
2½"	TMC7247	1.438	1.930	2.470	1.990	2.719	4.750	3.750	4.000
3"	TMC8302	1.438	2.450	3.020	2.525	3.281	4.875	4.500	4.875
3½"	TMC9352	1.625	2.950	3.520	3.025	3.781	5.375	5.000	5.375
4"	TMC10402	1.625	3.500	4.020	3.585	4.281	5.500	5.500	5.875

All dimensions in inches unless otherwise noted.

North American Standards - General Purpose

4F

Gland Type:

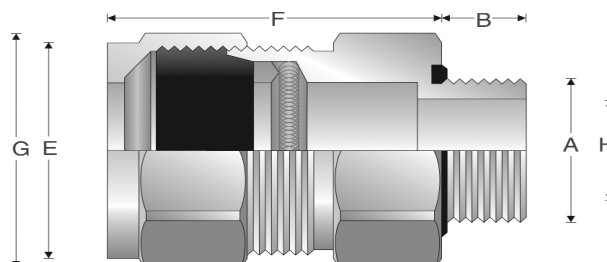
Armoured

Cable Type:

TECK armoured

Certifications and Compliances:

- CSA Certified Class II, Div. 1 & 2, Groups E, F, G; Class III – CSA File LR13046
- Type 4 and IP56
- Wet locations



Features:

- Standard material is aluminum
- Stainless steel copper-plated spring provides grounding continuity of cable armour (TECK cable only)
- Watertight seal on outer sheath of cable
- Standard neoprene seal suitable for use in operating temperatures -25° to 60°C
- Cold Shrink™ Kit is available for extra protection in aggressive environments (see page 102)
- An integral o-ring seal on entry threads
- Available with NPT threads
- See page 102 for related accessories

SELECTION TABLE

Aluminum Catalog #	Steel Catalog #	Stainless Steel Catalog #	PVC Catalog #	Entry Thread Size 'A'	Thread Length 'B' NPT	Cable Acceptance				Gland Length 'F' (less entry)	Hexagon Dimensions	
				NPT Size		Armour Range 'H'		Outer Sheath 'E'			Across Flats	Across Corners 'G'
						Min	Max	Min	Max			
TECK050 1	TECK050 1S	TECK050 1SS	TECK050 1PVC	½"	0.630	0.415	0.570	0.525	0.650	2.300	1.250	1.350
TECK050 2	TECK050 2S	TECK050 2SS	TECK050 2 PVC	½"	0.630	0.490	0.680	0.600	0.760	2.300	1.375	1.500
TECK050 3	TECK050 3S	TECK050 3SS	TECK0503PVC	½"	0.630	0.615	0.805	0.725	0.885	2.300	1.500	1.600
TECK050 4	TECK050 4S	TECK050 4SS	TECK050 4PVC	½"	0.630	0.715	0.905	0.825	0.985	2.300	1.500	1.600
TECK075 5	TECK075 5S	TECK075 5SS	TECK075 5PVC	¾"	0.630	0.770	0.985	0.880	1.065	2.500	2.000	2.125
TECK075 6	TECK075 6S	TECK075 6SS	TECK075 6PVC	¾"	0.630	0.915	1.125	1.025	1.205	2.500	2.000	2.125
TECK100 7	TECK100 7S	TECK100 7SS	TECK1007PVC	1"	0.750	1.077	1.295	1.187	1.375	2.625	2.250	2.400
TECK125 8	TECK125 8S	-	TECK125 8PVC	1¼"	0.800	1.240	1.545	1.350	1.625	3.500	3.000	3.125
TECK125 9	TECK125 9S	-	TECK125 9PVC	1¼"	0.800	1.390	1.545	1.500	1.625	3.400	3.000	3.125
TECK125 10	TECK125 10S	-	TECK125 10PVC	1¼"	0.800	1.490	1.795	1.600	1.875	3.500	3.000	3.125
TECK150 11	TECK150 11S	-	TECK150 11PVC	1½"	0.800	1.590	1.885	1.700	1.965	3.800	3.750	3.600
TECK150 12	TECK150 12S	-	TECK150 12PVC	1½"	0.800	1.790	2.107	1.900	2.187	3.900	3.500	3.750
TECK200 13	TECK200 13S	-	TECK200 13PVC	2"	0.825	1.790	2.107	1.900	2.187	4.000	3.750	4.000
TECK200 14	TECK200 14S	-	TECK200 14PVC	2"	0.825	1.990	2.280	2.100	2.375	4.000	3.750	4.000
TECK200 15	TECK200 15S	-	TECK200 15PVC	2"	0.875	2.190	2.485	2.300	2.565	4.000	4.125	4.400
TECK200 16	TECK200 16S	-	TECK200 16PVC	2"	0.875	2.390	2.656	2.500	2.750	4.000	4.125	4.400
TECK250 17	TECK250 17S	-	TECK250 17PVC	2½"	1.300	2.240	2.560	2.380	2.640	5.000	4.500	4.750
TECK250 18	TECK250 18S	-	TECK250 18PVC	2½"	1.300	2.440	2.750	2.580	2.840	5.000	4.500	4.750
TECK300 19	TECK300 19S	-	TECK300 19PVC	3"	1.400	2.640	2.970	2.790	3.060	5.000	4.600	4.900
TECK300 20	TECK300 20S	-	TECK300 20PVC	3"	1.400	2.870	3.190	3.000	3.270	5.000	4.900	5.250
TECK300 21	TECK300 21S	-	TECK300 21PVC	3"	1.400	3.042	3.390	3.210	3.480	5.000	5.000	5.250
TECK350 22	TECK350 22S	-	TECK350 22PVC	3½"	1.400	3.270	3.590	3.420	3.690	5.000	5.600	5.900
TECK350 23	TECK350 23S	-	TECK350 23PVC	3½"	1.400	3.440	3.770	3.610	3.870	5.000	5.500	5.900
TECK400 24	TECK400 24S	-	-	4"	1.400	3.600	3.930	3.810	4.030	5.000	6.125	6.500
TECK400 25	TECK400 25S	-	-	4"	1.400	3.755	4.065	3.965	4.185	5.000	6.125	6.500
TECK400 26	TECK400 26S	-	-	4"	1.400	3.910	4.220	4.120	4.340	5.000	6.125	6.500

All dimensions in inches unless otherwise noted.

North American Standards - General Purpose

Gland Type:

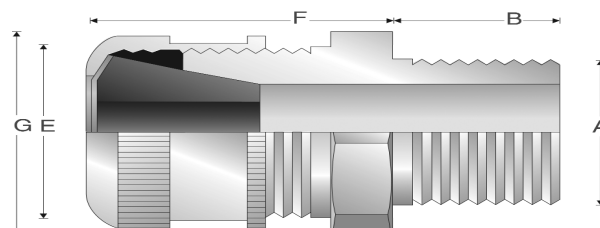
Non-armoured

Cable Type:

Non-armoured and tray cable

Certifications and Compliances:

- cULus Listed - UL File E23223
- Suitable for use in Class I, Div. 2 hazardous locations when installed in accordance with NEC501.10(B)(2)



Features:

- Form A - D bodies and gland nuts – steel with zinc electroplate and chromate finish coat
- Form E - F bodies and gland nuts – Feraloy® iron alloy with electrogalvanized and aluminum acrylic paint
- Weatherproof seal on outer sheath of cable
- Standard neoprene seal suitable for use in operating temperatures -25° to 40°C
- Available with NPT threads
- Available in all aluminum construction
- See page 102 for related accessories

ORDERING EXAMPLE:

CGB192 -SG

Gland Type Options

OPTIONS (add after gland type):

- SG Sealing Gasket* – only applies to certain sizes (e.g., CGB192-SG)
- SA Aluminum Construction† – only applies to certain sizes (e.g., CGB114-SA)

SELECTION TABLE

Entry Thread Size 'A'		Form	Thread Length 'B' NPT	Cable Acceptance		Gland Length 'F' (less entry)	External Diameter 'G'	Hexagon Dimensions	
NPT Size	NPT Catalog #			Outer Sheath 'E'				Across Flats	Across Corners 'G'
				Min	Max				
3/8"	CGB3814	A	0.438	0.125	0.250	1.063	–	0.750	0.875
3/8"	CGB3816	A	0.438	0.250	0.375	1.063	–	0.750	0.875
3/8"	CGB3817	A	0.438	0.375	0.437	1.063	–	0.750	0.875
3/8"	CGB3892	B	0.438	0.125	0.250	1.313	–	1.000	1.188
3/8"	CGB3893	B	0.438	0.250	0.375	1.313	–	1.000	1.188
3/8"	CGB3894	B	0.438	0.375	0.500	1.313	–	1.000	1.188
1/2"	CGB114†	A	0.625†	0.125	0.250	1.000	–	0.875	1.188
1/2"	CGB116†	A	0.625†	0.250	0.375	1.000	–	0.875	1.188
1/2"	CGB117†	A	0.625†	0.375	0.437	1.000	–	0.875	1.188
1/2"	CGB192*†	B	0.750*†	0.125	0.250	1.313	–	1.000	1.188
1/2"	CGB193*†	B	0.750*†	0.250	0.375	1.313	–	1.000	1.188
1/2"	CGB194*†	B	0.750*†	0.375	0.500	1.313	–	1.000	1.188
1/2"	CGB195*†	B	0.750*†	0.500	0.625	1.313	–	1.000	1.188
1/2"	CGB196*	C	0.625*	0.625	0.750	1.750	–	1.500	1.656
1/2"	CGB197*†	C	0.625*†	0.750	0.875	1.750	–	1.500	1.656
3/4"	CGB292†	B	0.625†	0.125	0.250	1.375	–	1.060	1.250
3/4"	CGB293†	B	0.625†	0.250	0.375	1.375	–	1.060	1.250
3/4"	CGB294†	B	0.625†	0.375	0.500	1.375	–	1.060	1.250
3/4"	CGB295†	B	0.625†	0.500	0.625	1.375	–	1.060	1.250
3/4"	CGB296*†	C	0.625*†	0.625	0.750	1.750	–	1.630	1.656
3/4"	CGB297*†	C	0.625*†	0.750	0.875	1.750	–	1.630	1.656
3/4"	CGB298*†	D	0.625*†	0.875	1.000	2.500	2.250	–	–
1"	CGB393†	B	0.688†	0.250	0.375	1.375	–	1.375	1.625
1"	CGB394†	B	0.688†	0.375	0.500	1.375	–	1.375	1.625
1"	CGB395*†	C	0.688*†	0.500	0.625	1.688	–	1.500	1.875
1"	CGB396*†	C	0.688*†	0.625	0.750	1.688	–	1.500	1.875
1"	CGB397*†	C	0.688*†	0.750	0.875	1.688	–	1.500	1.875
1"	CGB3239†	C	0.688†	0.875	1.000	1.688	–	–	1.875
1"	CGB398*†	D	0.625*†	0.875	1.000	2.375	2.375	–	–
1"	CGB399*†	D	0.625*†	1.000	1.188	2.375	2.375	–	–
1"	CGB3911*†	D	0.625*†	1.188	1.375	2.375	2.375	–	–

All dimensions in inches unless otherwise noted.

*With optional Sealing Gasket.

†With optional Aluminum Construction.

North American Standards - General Purpose

4F

Entry Thread Size 'A'		Form	Thread Length 'B' NPT	Cable Acceptance		Gland Length 'F' (less entry)	External Diameter 'G'	Hexagon Dimensions	
NPT Size	NPT Catalog #			Outer Sheath 'E'				Across Flats	Across Corners 'G'
				Min	Max				
1¼"	CGB498	D	0.688	0.875	1.000	2.313	2.250	—	—
1¼"	CGB499	D	0.688	1.000	1.188	2.313	2.250	—	—
1¼"	CGB4911	D	0.688	1.188	1.375	2.313	2.250	—	—
1¼"	CGB4913	E	0.688	1.375	1.625	2.625	3.000	—	—
1¼"	CGB4915	E	0.688	1.625	1.875	2.625	3.000	—	—
1½"	CGB598	D	0.813	0.875	1.000	2.313	2.250	—	—
1½"	CGB599	D	0.813	1.000	1.188	2.313	2.250	—	—
1½"	CGB5911	D	0.813	1.188	1.375	2.313	2.250	—	—
1½"	CGB5913	E	0.813	1.375	1.625	2.625	3.000	—	—
1½"	CGB5915	E	0.813	1.625	1.875	2.625	3.000	—	—
2"	CGB6913	E	0.813	1.375	1.625	2.625	3.000	—	—
2"	CGB6915	E	0.813	1.625	1.875	2.625	3.000	—	—
2"	CGB6917	F	0.813	1.875	2.188	2.563	3.750	—	—
2"	CGB6920	F	0.813	2.188	2.500	2.563	3.750	—	—
2½"	CGB7913	E	1.000	1.375	1.625	2.625	3.125	—	—
2½"	CGB7915	E	1.000	1.625	1.875	2.625	3.125	—	—
2½"	CGB7917	F	1.000	1.875	2.188	2.625	3.750	—	—
2½"	CGB7920	F	1.000	2.188	2.500	2.625	3.750	—	—
3"	CGB8917	F	1.000	1.875	2.188	2.625	3.750	—	—
3"	CGB8920	F	1.000	2.188	2.500	2.625	3.750	—	—

North American Standards -
General Purpose

Gland Type:

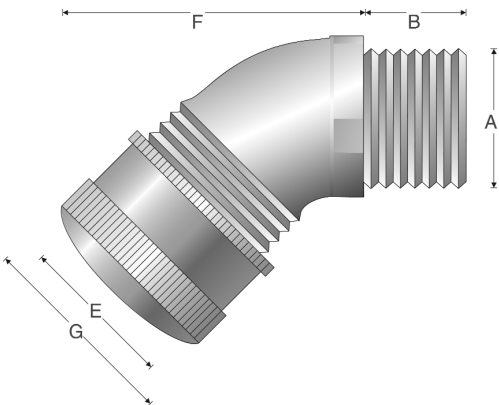
Non-armoured

Cable Type:

Non-armoured and tray cable

Certifications and Compliances:

- cULus Listed - UL File E23223
- Suitable for use in Class I, Div. 2 hazardous locations when installed in accordance with NEC501.10(B)(2)



Features:

- 45° angle with male thread
- Standard body material is Feraloy® iron alloy
- Standard gland nut material is steel
- Weatherproof seal on outer sheath of cable
- Standard neoprene seal suitable for use in operating temperatures -25° to 40°C
- Available with NPT threads
- See page 102 for related accessories

SELECTION TABLE

Entry Thread Size 'A'		Thread Length 'B' NPT	Cable Acceptance Outer Sheath 'E'		Gland Length 'F' (less entry)	External Diameter 'G'
NPT Size	NPT Catalog #		Min	Max		
1/2"	CGD192	0.630	0.125	0.250	1.688	1.188
1/2"	CGD193	0.630	0.250	0.375	1.688	1.188
1/2"	CGD194	0.630	0.375	0.500	1.688	1.188
1/2"	CGD195	0.630	0.500	0.625	1.688	1.188
1/2"	CGD196	0.630	0.625	0.750	2.063	1.625
1/2"	CGD197	0.630	0.750	0.875	2.063	1.625
3/4"	CGD292	0.630	0.125	0.250	1.938	1.141
3/4"	CGD293	0.630	0.250	0.375	1.938	1.141
3/4"	CGD294	0.630	0.375	0.500	1.938	1.125
3/4"	CGD295	0.630	0.500	0.625	1.938	1.125
3/4"	CGD296	0.630	0.625	0.750	2.000	1.625
3/4"	CGD297	0.630	0.750	0.875	2.000	1.625

All dimensions in inches unless otherwise noted.

North American Standards - General Purpose

4F

Gland Type:

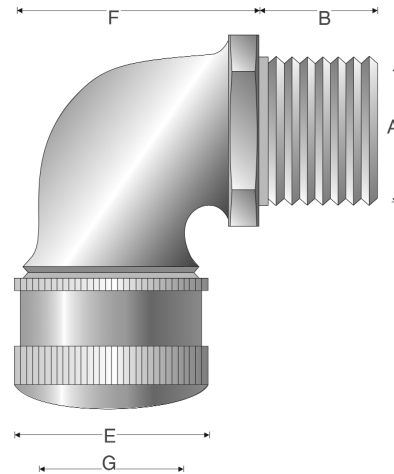
Non-armoured

Cable Type:

Non-armoured and tray cable

Certifications and Compliances:

- cULus Listed - UL File E23223
- Suitable for use in Class I, Div. 2 hazardous locations when installed in accordance with NEC501.10(B)(2)



Features:

- 90° angle with male thread
- Standard body material is Feraloy® iron alloy
- Standard gland nut material is steel
- Weatherproof seal on outer sheath of cable
- Standard neoprene seal suitable for use in operating temperatures -25° to 40°C
- Available with NPT threads
- See page 102 for related accessories

SELECTION TABLE

Entry Thread Size 'A'		Thread Length 'B' NPT	Cable Acceptance		Gland Length 'F' (less entry)	External Diameter 'G'
NPT Size	NPT Catalog #		Outer Sheath 'E'			
			Min	Max		
½"	CGE192	0.710	0.1250	0.2500	1.438	1.188
½"	CGE193	0.710	0.2500	0.3750	1.438	1.188
½"	CGE194	0.710	0.3750	0.5000	1.438	1.188
½"	CGE195	0.710	0.5000	0.6250	1.438	1.188
½"	CGE196	0.710	0.6250	0.7500	2.000	1.625
½"	CGE197	0.710	0.7500	0.8750	2.000	1.625
¾"	CGE292	0.710	0.1250	0.2500	1.406	1.188
¾"	CGE293	0.710	0.2500	0.3750	1.406	1.188
¾"	CGE294	0.710	0.3750	0.5000	1.406	1.188
¾"	CGE295	0.710	0.5000	0.6250	1.406	1.188
¾"	CGE296	0.710	0.6250	0.7500	1.875	1.625
¾"	CGE297	0.710	0.7500	0.8750	1.875	1.625
1"	CGE395	0.710	0.5000	0.6250	2.063	1.625
1"	CGE396	0.710	0.6250	0.7500	2.094	1.625
1"	CGE397	0.710	0.7500	0.8750	2.094	1.625
1"	CGE3239	0.710	0.8750	1.0000	2.094	2.250
1"	CGE398	0.710	0.8750	1.0000	2.656	2.250
1"	CGE399	0.710	1.0000	1.1880	2.656	1.625
1"	CGE3911	0.710	1.1880	1.3750	2.656	2.250

All dimensions in inches unless otherwise noted.

North American Standards -
General Purpose

Gland Type:

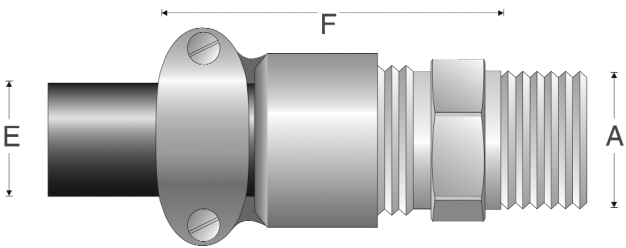
Portable cord connector

Cable Type:

Non-armoured and tray cable

Certifications and Compliances:

- cULus Listed - UL File E23223
- Suitable for use in Class I, Div. 2 hazardous locations when installed in accordance with NEC501.10(B)(2)



Features:

- Body – steel with zinc electroplate and chromate finish coat
- Gland nut – material is aluminum
- Standard neoprene seal suitable for use in operating temperatures -25° to 40°C
- Available with NPT threads
- See page 102 for related accessories

SELECTION TABLE

Entry Thread Size 'A'		Outer Sheath 'E'	
NPT Size	NPT Catalog #	Min	Max
1/2"	CGB1013	0.312	0.437
1/2"	CGB1014	0.375	0.500
1/2"	CGB1015	0.500	0.625
3/4"	CGB2013	0.312	0.437
3/4"	CGB2014	0.375	0.500
3/4"	CGB2015	0.500	0.625

All dimensions in inches unless otherwise noted.

North American Standards - General Purpose

4F

Gland Type:

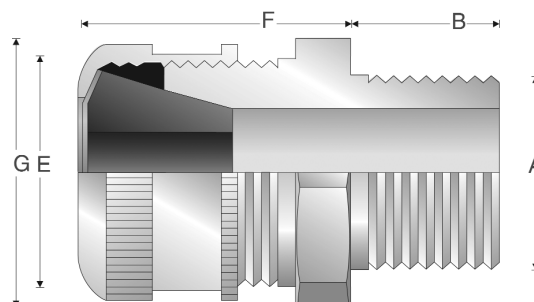
Non-armoured

Cable Type:

Non-armoured and tray cable

Certifications and Compliances:

- Suitable for use in Class I, Div. 2 hazardous locations when installed in accordance with NEC501.10(B)(2)



Features:

- Form B - C standard body and gland nut are turned steel
- Form D - G standard body and gland nut are Feraloy® iron alloy
- Weatherproof seal on outer sheath of cable
- Standard neoprene seal suitable for use in operating temperatures -25° to 40°C
- Available with NPT threads
- See page 102 for related accessories

SELECTION TABLE

Entry Thread Size 'A'		Form	Thread Length 'B' NPT	Cable Acceptance Outer Sheath 'E'		Gland Length 'F' (less entry)	External Diameter 'G'
NPT Size	NPT Catalog #			Min	Max		
1/2"	CGFP192	B	0.750	0.1250	0.2500	1.375	1.281
1/2"	CGFP193	B	0.750	0.2500	0.3750	1.375	1.281
1/2"	CGFP194	B	0.750	0.3750	0.5000	1.375	1.281
1/2"	CGFP195	B	0.750	0.5000	0.6250	1.375	1.281
3/4"	CGFP296	C	0.750	0.6250	0.7500	1.750	1.781
3/4"	CGFP297	C	0.750	0.7500	0.8750	1.750	1.781
3/4"	CGFP2239	C	0.750	0.8750	1.0000	1.750	1.781
1"	CGFP396	C	0.938	0.6250	0.7500	1.750	1.781
1"	CGFP397	C	0.938	0.7500	0.8750	1.750	1.781
1"	CGFP3239	C	0.938	0.8750	1.0000	1.750	1.781
1 1/4"	CGFP499	D	0.938	1.0000	1.1880	2.375	2.250
1 1/4"	CGFP4911	D	0.938	1.1880	1.3750	2.375	2.250
1 1/2"	CGFP599	D	0.938	1.0000	1.1880	2.375	2.250
1 1/2"	CGFP5911	D	0.938	1.1880	1.3750	2.375	2.250
2"	CGFP6913	E	1.000	1.3750	1.6250	3.250	3.250
2"	CGFP6915	E	1.000	1.6250	1.8750	3.250	3.250
2 1/2"	CGFP7917	F	1.438	1.8750	2.1880	3.250	3.875
2 1/2"	CGFP7920	F	1.438	2.1880	2.5000	3.250	3.875
3"	CGFP8917	F	1.500	1.8750	2.1880	3.250	3.875
3"	CGFP8920	F	1.500	2.1880	2.5000	3.250	3.875
3 1/2"	CGFP923	G	1.563	2.5000	3.0000	4.250	5.500
3 1/2"	CGFP927	G	1.563	3.0000	3.5000	4.250	5.500
4"	CGFP1023	G	1.625	2.5000	3.0000	4.250	5.500
4"	CGFP1027	G	1.625	3.0000	3.5000	4.250	5.500

All dimensions in inches unless otherwise noted.

North American Standards -
General Purpose

Gland Type:

Non-armoured

Cable Type:

Non-armoured and tray cable

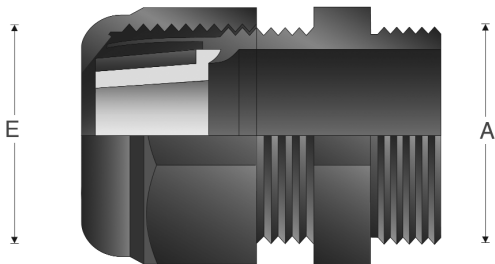
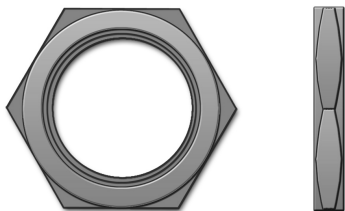
Certifications and Compliances:

- cULus Listed - UL File E23223

SELECTION TABLE

Entry Thread Size 'A'		Outer Sheath 'E'	
NPT Size	NPT Catalog #	Min	Max
3/8"	NCG38 35	0.10	0.35
1/2"	NCG50 50	0.20	0.50
3/4"	NCG75 75	0.35	0.75
1"	NCG100 100	0.55	1.00

All dimensions in inches unless otherwise noted.



NCG Features:

- Standard material is polyamide 6
- Weatherproof seal on outer sheath of cable
- Standard neoprene seal suitable for use in operating temperatures -25° to 40°C
- Available with NPT threads

POLYAMIDE LOCK NUT
SELECTION TABLE

Size	Catalog #
3/8"	10N
1/2"	11N
3/4"	12N
1"	13N

Gland Type:

Non-armoured

Cable Type:

Non-armoured and tray cable

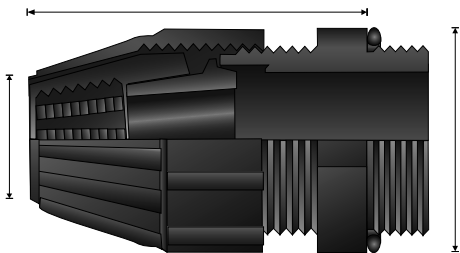
Certifications and Compliances:

- cULus Listed - UL File E23223
- NEMA 3, 4X

SELECTION TABLE

NPT Size	NPT Catalog #	Cable Acceptance Range 'E'		Gland Length (Less Entry) 'F'	External Diameter 'G'
		Min	Max		
1/2"	NCGB1231	0.25	0.42	2.25	1.33
1/2"	NCGB1232	0.40	0.57	2.25	1.33
3/4"	NCGB2233	0.54	0.68	2.52	1.58
3/4"	NCGB2234	0.64	0.78	2.52	1.58
1"	NCGB3235	0.76	0.91	3.19	2.02
1"	NCGB3236	0.89	1.03	3.19	2.02

All dimensions in inches unless otherwise noted.



NCGB Features:

- Standard material is thermoplastic polyester
- Tightens by hand to create a watertight seal
- Gasket on entry threads included
- Compact design allows close grouping of connectors
- Available with NPT threads

4F Accessories – A Series

4F

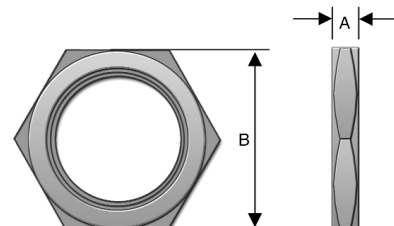
A Series – Lock Nut – Standard material is nickel-plated brass

METRIC SELECTION TABLE

Entry Thread	A	B	Catalog #
M16	3	19	CAP221694
M20	4	24	CAP222094
M25	4	30	CAP222594
M32	4.5	36	CAP223294
M40	4.5	46	CAP224094
M50	4.7	65	CAP225094
M63	6.4	80	CAP226394
M75	6.4	95	CAP227594
M90	8	110	CAP229094
M110	12	130	CAP221104

NPT SELECTION TABLE

Entry Thread	A	B	Catalog #
1/2"	3.75	25.4	CAP280124
3/4"	4	33	CAP280134
1"	4.75	40	CAP280144
1 1/4"	5.25	50	CAP280154
1 1/2"	5.75	55.9	CAP280164
2"	6.25	70	CAP280174
2 1/2"	9	90	CAP280184
3"	10	105	CAP280194



* For stainless steel replace last digit with "9".

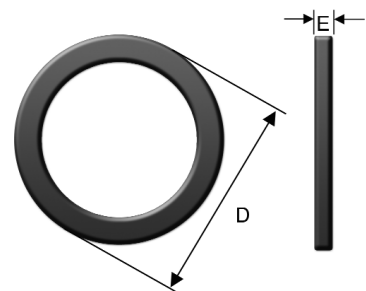
A Series – Sealing Washer – Standard material is neoprene

METRIC SELECTION TABLE

Metric Size	Metric Catalog #	Metric Diam. 'D'	Metric Thickness 'E'
10	CAP221049	15.0	1.2
12	CAP221249	18.0	1.2
16	CAP221649	22.0	1.2
20	CAP222049	24.0	1.2
25	CAP222549	30.0	1.5
32	CAP223249	42.0	1.5
40	CAP224049	52.0	1.5
50	CAP225049	63.0	1.5
63	CAP226349	77.0	2.0
-	-	-	-
-	-	-	-

NPT SELECTION TABLE

NPT Size	NPT Catalog #	NPT Diam. 'D'	NPT Thickness 'E'
1/4"	CAP229014	20.0	1.5
3/8"	CAP229038	22.0	1.5
1/2"	CAP229012	27.0	1.5
3/4"	CAP229034	33.0	1.5
1"	CAP229010	41.0	1.5
1 1/4"	CAP229114	52.0	1.5
1 1/2"	CAP229112	57.0	1.5
2"	CAP229020	71.0	2.0
2 1/2"	CAP229212	85.0	2.0
3"	CAP229300	104.0	2.0
3 1/2"	CAP229312	120.0	2.0



A Series – Earth Tag – Standard material is nickel-plated brass

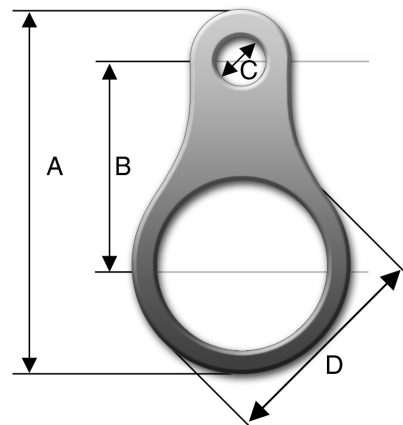
METRIC SELECTION TABLE

Entry Thread	A	B	C	D	Catalog #
M16	48.75	30	6.75	24.5	CAP567034
M20	53.8	33	7	28.6	CAP567054
M25	61.5	36	10.5	34	CAP567074
M32	73	41	12.2	42	CAP567094
M40	86.5	44.5	13.5	54	CAP567124
M50	111.5	58	13.5	67	CAP567154
M63	125.5	67	13.5	77	CAP567184
M75	137.5	73	13.5	89	CAP567194

NPT SELECTION TABLE

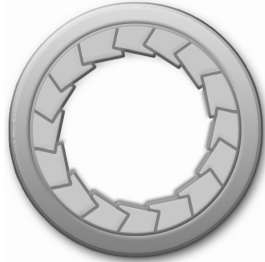
Entry Thread	A	B	C	D	Catalog #
1/2"	61.5	36	10.5	34	CAP567064
3/4"	73	41	12.2	42	CAP567084
1"	73	41	12.2	42	CAP567104
1 1/4"	86.5	44.5	13.5	54	CAP567134
1 1/2"	111.5	58	13.5	67	CAP567154
2"	125.5	67	13.5	77	CAP567174
2 1/2"	137.5	73	13.5	89	CAP567194

All dimensions in millimeters unless otherwise noted.



A Series – Serrated Lock Washer

– Standard material is stainless steel



SELECTION TABLE

Metric Size	External Diameter	Catalog #
16	25.5	CAP280069
20	32.5	CAP280029
25	39.5	CAP280259
32	49.5	CAP280329
40	64.5	CAP280409
50	80.5	CAP280509
63	100	CAP280639
75	112	CAP280759
90	123	CAP280099

A-Series – Shroud

– Standard material is PVC



SELECTION TABLE

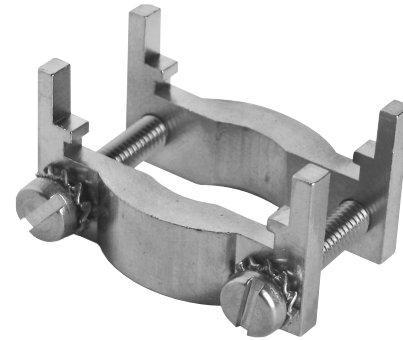
Gland Size	Catalog #
4	CAP506040
5	CAP506050
6	CAP506060
7	CAP506070
8	CAP506080
9	CAP506090
10	CAP506100
11	CAP506110
12	CAP506120
13	CAP506130
14	CAP506140
15	CAP506150
16	CAP506160

A Series – Clamping Module

– Standard materials are nickel-plated brass body with stainless steel screws and washers

SELECTION TABLE

Cable Range	Gland Size	Across Flats	Width	Thickness	Catalog #
4-8.5	4	15	18	5	CAP810434
6-11	5	19	22	5	CAP810534
8.5-16	6	24	27.5	6	CAP810634
12-21	7	30	33.5	8	CAP810734
16-27.5	8	41	45	8	CAP810834
21-34	9	48	52	9.5	CAP810934
27-41	10	55	59	9.5	CAP811034
33-48	11	64	69	12	CAP811134
40-56	12	72	78	12	CAP811234
47-65	13	85	92	16	CAP811334
54-74	14	95	103	16	CAP811434
63-83	15	110	118	18	CAP811534
72-93	16	120	128	18	CAP811634

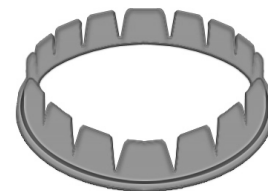


A Series – Earthing Washer – Standard material is brass

METRIC SELECTION TABLE

Gland Size	Lead Sheath Sealing Range		Cable Diameter	Catalog #
	Min	Max		
5	4	7.5	10	CAP560530
6	6	11	13.9	CAP560630
7	9	15	18.3	CAP560730
8	12	20	23.8	CAP560830
9	16	26.5	31	CAP560930
10	21	32.5	38.3	CAP561030
11	28	39.5	45.3	CAP561130
12	33	46.5	52.8	CAP561230
13	40	54.5	60.8	CAP561330
14	46.5	61	71	CAP561430
15	54	72.5	80.5	CAP561530
16	63	81.5	89.5	CAP561630

All dimensions in millimeters unless otherwise noted.



4F Accessories – A Series

4F

A Series – Adaptors and Reducers – Standard material is nickel-plated brass
ATEX Exe Exd with LCIE 98 ATEX 00010

ORDERING EXAMPLE:

CAP745334

METRIC x METRIC SELECTION TABLE

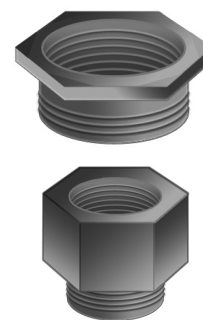
Female →

Male	M12	M16	M20	M25	M32	M40	M50	M63	M75	M80	M90	M110
M12		745334										
M16	745834		740274									
M20	745844	740024		740544								
M25		740034	740294		740814							
M32			740304	740564		741084						
M40				740574	740834		741354					
M50					740844	741104		741624				
M63						741114	741374		741894			
M75							741384	741644		745394		
M90									745864			
M110												

METRIC x NPT SELECTION TABLE

Female →

Male	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"
M12	744104										
M16		744194	744694								
M20	744204	744214	744704	744964							
M25			744714	744974	745234						
M32			744724	744984	745244	745504					
M40				744994	745254	745514	745774				
M50					745264	745524	745784	746044			
M63							745794	746054	746314		
M75								746064	746324	746584	
M90										744304	
M110											



Size available – no part number
Size not available

NPT x METRIC SELECTION TABLE

Female →

Male	M12	M16	M20	M25	M32	M40	M50	M63	M75	M90	M100	M110
1/4"	740614	740624										
3/8"	740884	740894	740904									
1/2"	740914	740194	740454	740714								
3/4"		740204	740464	740724	740984							
1"			740474	740734	740994	741264	741524					
1 1/4"				740744	741004	741274	741534	741794				
1 1/2"					741104	741284	741544	741804	742064			
2"							741554	741814				
2 1/2"								741824				
3"												
3 1/2"												
4"												

NPT x NPT SELECTION TABLE

Female →

Male	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
1/4"												
3/8"	745574		744624									
1/2"		745594		745134								
3/4"			744884		745404							
1"			744894	745154		745674						
1 1/4"				745164	745424		745944					
1 1/2"					745434	745694		746214				
2"						745704	745964		746484			
2 1/2"								746234				
3"								746244	746504			
3 1/2"												
4"												

* For stainless steel replace last digit with "9".

A Series – Stopping Plug – Standard material is nickel-plated brass; ATEX Exe Exd with LCIE 98 ATEX 00010

METRIC SELECTION TABLE

Metric Size	Metric Catalog #*	Across Flats 'A'	Hex Thickness 'B'	Thread Length 'E'
12	CAP190124	14	2.8	15
16	CAP190164	18	3.0	15
20	CAP190204	23	3.0	15
25	CAP190254	28	3.5	15
32	CAP190324	36	4.0	15
40	CAP190404	44	4.0	15
50	CAP190504	54	5.0	16
63	CAP190634	67	5.5	17
75	CAP190754	80	6.0	18
80	CAP190804	85	7.0	20
90	CAP199904	95	8.0	22
100	CAP191004	110	10.0	22

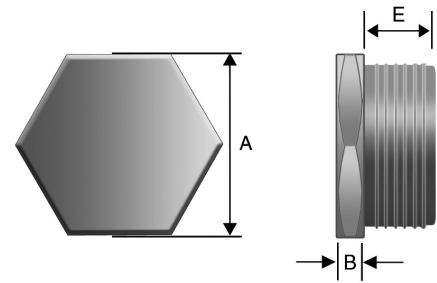
* For stainless steel replace last digit with "9".

NPT SELECTION TABLE

NPT Size	NPT Catalog #*	Across Flats 'A'	Hex Thickness 'B'	Thread Length 'E'
1/4"	CAP190194	14	2.8	12
3/8"	CAP109294	18	2.8	12
1/2"	CAP190394	22	3.0	16
3/4"	CAP190494	28	3.0	16
1"	CAP190594	36	3.5	20
1 1/4"	CAP190694	44	4.0	20
1 1/2"	CAP190794	50	5.0	20
2"	CAP190894	64	5.5	20
2 1/2"	CAP190994	75	6.0	28
3"	CAP191094	90	6.0	30
3 1/2"	CAP191194	110	10.0	32

All dimensions in millimeters unless otherwise noted.

*For stainless steel replace last digit with "9".



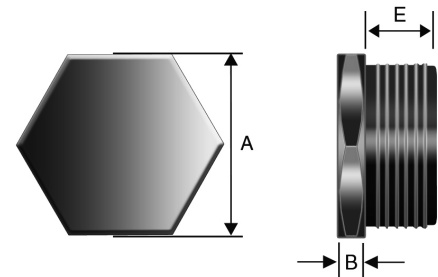
A Series – Nonmetallic Stopping Plug – Standard material is polyamide 6; ATEX certified Ex e II with LCIE 97ATEX6007X

Washer and locknut are required for non-threaded holes (not included) see page 96

POLYAMIDE SELECTION TABLE

Metric Size	Metric Catalog #*	Across Flats 'A'	Hex Thickness 'B'	Thread Length 'E'
12	CAP191127	15	4	15
16	CAP191167	19	4	15
20	CAP191207	23	4	15
25	CAP191257	28	5	15
32	CAP191327	36	5.5	15
40	CAP191407	44	5.5	15
50	CAP191507	54	6	16
63	CAP191637	67	6.5	17

*For stainless steel replace last digit with "9".



4F Accessories – B Series

4F

B Series – Lock Nut – Standard material is brass

METRIC SELECTION TABLE

Metric Entry Thread	Catalog #
M16	BLN/M16
M20	BLN/M20
M25	BLN/M25
M32	BLN/M32
M40	BLN/M40
M50	BLN/M50
M63	BLN/M63
M75	BLN/M75
M80	BLN/M80
M85	BLN/M85
M90	BLN/M90
M100	BLN/M100

NPT SELECTION TABLE

NPT Entry Thread	Catalog #
1/2" ⁿ	BLN/050NPT
3/4" ⁿ	BLN/075NPT
1" ⁿ	BLN/100NPT
1 1/4" ⁿ	BLN/125NPT
1 1/2" ⁿ	BLN/150NPT
2" ⁿ	BLN/200NPT
2 1/2" ⁿ	BLN/250NPT
3" ⁿ	BLN/300NPT
3 1/2" ⁿ	BLN/350NPT
4" ⁿ	BLN/400NPT



B Series – Sealing Washer – Standard material is nylon

METRIC SELECTION TABLE

Metric Entry Thread	Catalog #
M16	RNSW/M16
M20	RNSW/M20
M25	RNSW/M25
M32	RNSW/M32
M40	RNSW/M40
M50	RNSW/M50
M63	RNSW/M63
M75	RNSW/M75
M80	RNSW/M80
M85	RNSW/M85
M90	RNSW/M90
M100	RNSW/M100

NPT SELECTION TABLE

NPT Entry Thread	Catalog #
1/2" ⁿ	RNSW/050NPT
3/4" ⁿ	RNSW/075NPT
1" ⁿ	RNSW/100NPT
1 1/4" ⁿ	RNSW/125NPT
1 1/2" ⁿ	RNSW/150NPT
2" ⁿ	RNSW/200NPT
2 1/2" ⁿ	RNSW/250NPT
3" ⁿ	RNSW/300NPT
3 1/2" ⁿ	RNSW/350NPT
4" ⁿ	RNSW/400NPT



B Series – Earth Tag – Standard material is brass

METRIC SELECTION TABLE

Metric Entry Thread	Catalog #
M16	BET/M16
M20	BET/M20
M25	BET/M25
M32	BET/M32
M40	BET/M40
M50	BET/M50
M63	BET/M63
M75	BET/M75
M80	BET/M80
M85	BET/M85
M90	BET/M90
M100	BET/M100

NPT SELECTION TABLE

NPT Entry Thread	Catalog #
1/2" ⁿ	BET/050NPT
3/4" ⁿ	BET/075NPT
1" ⁿ	BET/100NPT
1 1/4" ⁿ	BET/125NPT
1 1/2" ⁿ	BET/150NPT
2" ⁿ	BET/200NPT
2 1/2" ⁿ	BET/250NPT
3" ⁿ	BET/300NPT
3 1/2" ⁿ	BET/350NPT
4" ⁿ	BET/400NPT



B Series – Shroud

PVC SELECTION TABLE

Size (Gland Size)	Catalog #
L24 (16, 20s)	PVC-L24
L30 (20)	PVC-L30
L38 (25)	PVC-L38
L46 (32)	PVC-L46
L55 (40)	PVC-L55
L65 (50, 50s)	PVC-L65
L80 (63, 63s)	PVC-L80
L90 (75, 75s)	PVC-L90
L104 (80,85)	PVC-L104
L114 (90, 100)	PVC-L114

PCP SELECTION TABLE

Size	Catalog #
L24 (16, 20s)	PCP-L24
L30 (20)	PCP-L30
L38 (25)	PCP-L38
L46 (32)	PCP-L46
L55 (40)	PCP-L55
L65 (50, 50s)	PCP-L65
L80 (63, 63s)	PCP-L80
L90 (75, 75s)	PCP-L90
L104 (80, 85)	PCP-L104



PCP

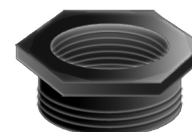
All dimensions in millimeters unless otherwise noted.

D Series – Lock Nut – Standard material is polyamide**SELECTION TABLE**

Metric Entry Diameter	Width	Thickness	Catalog #
M12 x 1.5	17.00	5.00	GHG 960 1941 R0031
M16 x 1.5	22.00	5.00	GHG 960 1941 R0032
M20 x 1.5	26.00	6.00	GHG 960 1941 R0033
M25 x 1.5	32.00	6.00	GHG 960 1941 R0034
M32 x 1.5	41.00	7.00	GHG 960 1941 R0035
M40 x 1.5	50.00	7.00	GHG 960 1941 R0036
M50 x 1.5	60.00	8.00	GHG 960 1941 R0037
M63 x 1.5	75.00	8.00	GHG 960 1941 R0038

**D Series – Reducing Ring** – Standard material is polyamide**SELECTION TABLE**

Thread 1	Thread 2	Length 1	Length 2	Length 3	Across Flats	Catalog #
20 x 1.5	M16 x 1.5	12.00	8.00	8.00	24.00	GHG 960 1946 R0071
25 x 1.5	M20 x 1.5	14.00	8.00	8.00	29.00	GHG 960 1946 R0072
32 x 1.5	M20 x 1.5	16.00	10.00	6.00	36.00	GHG 960 1946 R0056
32 x 1.5	M25 x 1.5	16.00	10.00	10.00	36.00	GHG 960 1946 R0074
40 x 1.5	M25 x 1.5	16.00	10.00	8.00	46.00	GHG 960 1946 R0059
40 x 1.5	M32 x 1.5	16.00	10.00	10.00	46.00	GHG 960 1946 R0077
50 x 1.5	M32 x 1.5	18.00	12.00	10.00	55.00	GHG 960 1946 R0062
50 x 1.5	M40 x 1.5	18.00	12.00	10.00	68.00	GHG 960 1946 R0080
63 x 1.5	M40 x 1.5	18.00	12.00	10.00	68.00	GHG 960 1946 R0065
63 x 1.5	M50 x 1.5	18.00	12.00	12.00	68.00	GHG 960 1946 R0083

**D Series – Screw Plug** – Standard material is polyamide**SELECTION TABLE**

Thread 1	Diameter	Length 1	Length 2	Catalog #
16 x 1.5	21.50	4.00	12.00	GHG 960 1952 R0111
20 x 1.5	25.50	4.00	13.00	GHG 960 1952 R0112
25 x 1.5	30.50	4.00	13.00	GHG 960 1952 R0113
32 x 1.5	37.50	5.50	15.00	GHG 960 1952 R0114
40 x 1.5	45.50	5.50	15.00	GHG 960 1952 R0115
50 x 1.5	55.50	5.50	16.00	GHG 960 1952 R0116
63 x 1.5	85.00	6.50	16.00	GHG 960 1952 R0117

**D Series – Blanking Plug** – For sealing unused cable glands;
Standard material is polyamide**SELECTION TABLE**

Thread 1	Diameter	Length 1	Catalog #
12	6.00	30.30	GHG 960 1944 R0101
16	7.00	33.00	GHG 960 1944 R0102
20	8.50	34.50	GHG 960 1944 R0103
25	11.00	36.00	GHG 960 1944 R0104
32	14.00	39.50	GHG 960 1944 R0105
40	20.00	42.00	GHG 960 1944 R0106
50	26.00	44.00	GHG 960 1944 R0107
63	34.00	45.00	GHG 960 1944 R0108

All dimensions in millimeters unless otherwise noted.



4F Accessories – E Series

4F

E Series – Chico® LiquidSeal

SELECTION TABLE

Std. Carton Qty.	Size (ml.)	Catalog #
10	10 ml.	LSC 10
10	20 ml.	LSC 20
5	50 ml.	LSC 50



E Series – TSC Epoxy Sealing Compound

SELECTION TABLE

Std. Carton Qty.	Tube Size	Catalog #
10	0.5 oz.	TSC05
10	1.0 oz.	TSC1
5	4.0 oz.	TSC4



E Series – Wire Mesh Grip

SELECTION TABLE

Cord Range	Diameter	Gland Nut	Wire Mesh Grip Catalog #
.375 to .500		NUT94	RPE417-115
.500 to .625		NUT94	RPE417-116
.500 to .625		NUT95	RPE417-129
.625 to .750		NUT95	RPE417-117
.750 to .875		NUT95	RPE421-119
.875 to 1.000		NUT98	16676N
.875 to 1.000		NUT98	16676N
.875 to 1.000		NUT95	RPE421-120
.875 to 1.000		NUT98	16676N
1.000 to 1.188		NUT98	RPE421-121
1.188 to 1.375		NUT98	RPE433-122
1.375 to 1.625		NUT913	RPE433-123
1.625 to 1.875		NUT913	17317N



E Series – Cold Shrink™ Kit

SELECTION TABLE

Entry Thread	Catalog #
1/2"	TMC-K1
3/4"	TMC-K2
1"	TMC-K3
1 1/4"	TMC-K4
1 1/2"	TMC-K5
2"	TMC-K6
2 1/2"	TMC-K7
3"	TMC-K8
3 1/2"	TMC-K9
4"	TMC-K10

All dimensions in inches unless otherwise noted.

Cold Shrink™ Corrosion Protection Kits are specially designed for Eaton's Crouse-Hinds TMC, TMCX, and TECK fittings to provide protection against corrosive elements like salt spray and moisture. The TMC-K kit is made of a Cold Shrink material that is quick and easy to install on the gland. The Cold Shrink material is made of EPDM rubber that contains no chlorides or sulfurs. The protection kit installs easily over the gland without the use of a heat source to shrink the material tightly over the seal. The Cold Shrink material can be removed easily from the gland by simply cutting it off. See ordering information for complete offering of TMC-K Cold Shrink kits for corrosion protection. Cold Shrink is a registered trademark of the 3M Company.

Breather Drain – SIRA 99 ATEX 3050 U
 I M2 II, 2GD, EExe I & II (Stainless steel & brass only)
 II 2GD, EExe II (Nylon only)
 Enclosure type 4X IP66

SELECTION TABLE

Entry Thread	Material	Catalog #
M20	Brass	DPE1004S3
M20	Stainless Steel	DPE3004S3
M20	Nylon	DPE4004S3
M25	Brass	DPE1005S3
M25	Stainless Steel	DPE3005S3
M25	Nylon	DPE4005S3
1/2"	Brass	DPE1029S3
1/2"	Stainless Steel	DPE3029S3
3/4"	Brass	DPE1030S3
3/4"	Stainless Steel	DPE3030S3

Drainage Plug – Standard material is polyamide; PTB01 ATEX 1128X Ex 1126 Exe II

SELECTION TABLE

Thread 1	Diameter	Length 1	Length 2	Catalog #
M25 x 1.5	30.00	19.00	4.50	GHG 960 1927 R0105

Breathing and Drainage Plug – Standard material is glass-filled polyamide;
 SIRA 99 ATEX 3050 U Ex 1126 Exe II

SELECTION TABLE

Thread 1	Catalog #
M25 x 1.5	GHG 960 1954 R0002

All dimensions in millimeters unless otherwise noted.

Please refer to section 6F for additional breather and drain options.

4F LCC Series Cable Tray Conduit Clamps

Applications:

LCC cable tray conduit clamps are used for installation on cable tray side rails with inside flanges (requiring inside tray mounting) and outside flanges; LCCF clamps are for use exclusively on inside flanges.

LCC/LCCF cable tray conduit clamps:

- Provide a means of clamping metal conduit (rigid steel or aluminum, IMC and EMT) to cable tray to provide for the exit of power and/or control cables from tray
- Provide a means to firmly bond exit conduit to cable tray for best grounding continuity
- Provide strong mechanical support for exit conduits and cables
- Can be used indoors or outdoors, wherever cable tray systems are installed
- Facilitate the safe exit of cables from tray – insure protection of cables from damage

Features:

- Quick and easy installation – low installed cost. Merely tighten clamp nut and/or set screw(s)
- Swivel hook clears conduit. No disassembly required for installation
- No drilling or welding necessary for installation
- Provides superior ground continuity between conduit and cable tray
- Clamps conduit at any angle with relation to tray – facilitates wire pulling, minimizes conduit bending
- Malleable iron body provides great strength
- Knurled body has no-slip surface for conduit and tray – positive grip assured
- Compact design has low profile – minimum tray space required for assembly
- Design accommodates all popular types of cable tray
- Accommodates wide range of conduit sizes – 1/2" through 4"

LCCF features:

- Outside mounting facilitates inside rail installation
- Adjustable hook assures positive grip on inside rail
- Accommodates 3/4" through 1 3/4" wide flange

Certifications and Compliances:

- UL Standard: 467 (Grounding and Bonding Equipment)

Standard Materials:

- Body – cast iron
- Hook – steel
- Set screws and clamping nut – steel
- Hook cap – vinyl

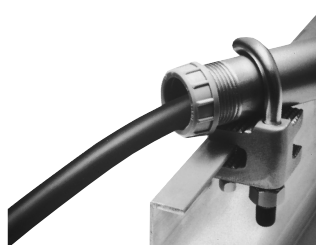
Standard Finishes:

- Cast iron – electrogalvanized and aluminum acrylic paint
- Steel – zinc electroplate
- Vinyl – natural

Conduit Size Ranges:

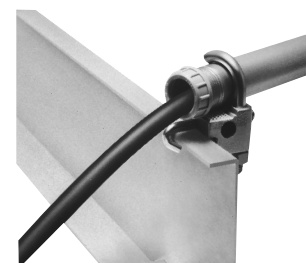
- 1/2" to 4"

LCC



For use with outside rail tray

LCCF

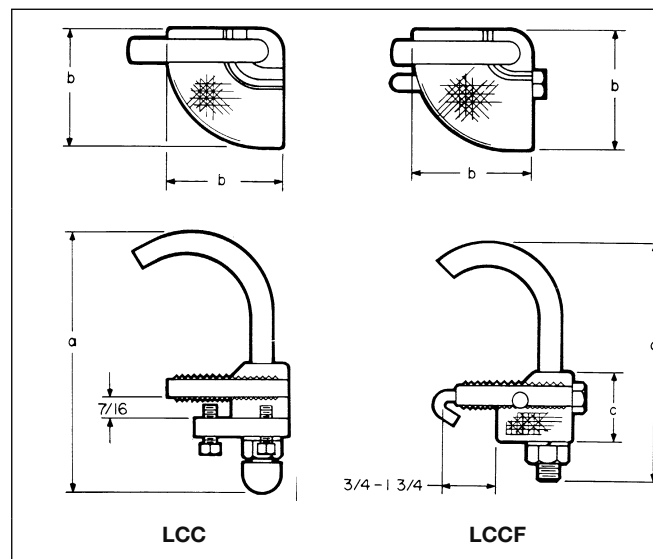


For use with inside rail tray

Ordering Information

Conduit Size	Cat. #	Cat. #
1/2	LCC1	LCCF1
3/4	LCC2	LCCF2
1	LCC3	LCCF3
1 1/4	LCC4	LCCF4
1 1/2	LCC5	LCCF5
2	LCC6	LCCF6
2 1/2	LCC7	LCCF7
3	LCC8	LCCF8
3 1/2	LCC9	LCCF9
4	LCC010	LCCF010

Dimensions In Inches:



Conduit Size	LCC		LCCF		
	a	b	a	b	c
1/2	3 3/16	1 11/16	3 1/8	1 5/8	1 11/32
3/4	3 7/16	1 11/16	3 11/32	1 5/8	1 11/32
1	3 9/16	1 11/16	3 19/32	1 5/8	1 11/32
1 1/4	4	1 11/16	3 15/16	1 5/8	1 11/32
1 1/2	4 13/16	2 11/16	4 3/4	2 3/4	1 11/16
2	5 5/16	2 11/16	5 1/4	2 3/4	1 11/16
2 1/2	5 13/16	2 11/16	5 3/4	2 3/4	1 11/16
3	6 13/16	3 3/4	6 3/4	3 11/16	2 3/16
3 1/2	7 5/16	3 3/4	7 1/4	3 11/16	2 3/16
4	7 13/16	3 3/4	7 3/4	3 11/16	2 3/16

Applications:

Cable tray grounding conductor clamps are designed for use in heavy industrial applications:

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

Features:

- Meets requirements of NEC Code Article 318-7 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 in sizes from #6 to 2/0
- Set screw bonds the clamp to the tray and another set screw securely attaches the grounding conductor to the clamp – outstanding pull-out and vibration resistance
- Design accommodates most popular types of cable tray
- Mechanical device – can be easily inspected
- Malleable iron body provides high strength

Certifications and Complies:

- UL Standard: 467 (Grounding and Bonding Equipment)

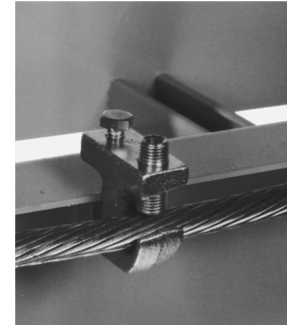
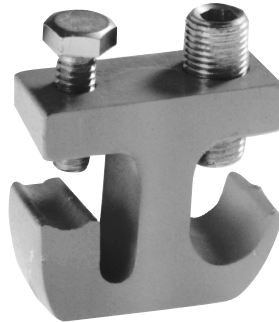
Standard Materials:

- Body – malleable iron
- Set screws – steel

Standard Finishes:

- Malleable iron and steel – electrogalvanized

Ordering Information

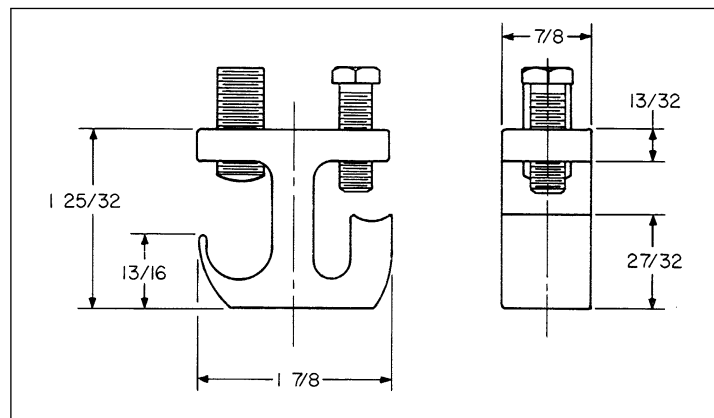


TGC Clamp installs on cable trays with inside or outside flanges

Ground Wire Size	Cat. #
#6 to 2/0	TGC40

Dimensions

In Inches:



4F TW Series THRU-WALL BARRIER® Cable/Conduit Sealing Device

4F

Applications:

THRU-WALL BARRIER cable/conduit sealing device is used wherever there is a need to seal cables or conduits penetrating fire- or non-fire-rated walls, ceilings, floors, bulkheads or decks. For non-fire-rated walls, ceilings, floors, bulkheads or decks, THRU-WALL BARRIER also restricts water and dust and will help contain treated air. THRU-WALL BARRIER is designed:

- To provide a seal for cable/conduit penetrations through masonry, concrete or steel; to restrict the entrance of contaminants through cable/conduit penetrations into clean areas
- For use with most types of power, instrument and control cables as well as conduits
- To be used indoors or outdoors, in new construction or existing structures

Features:

System

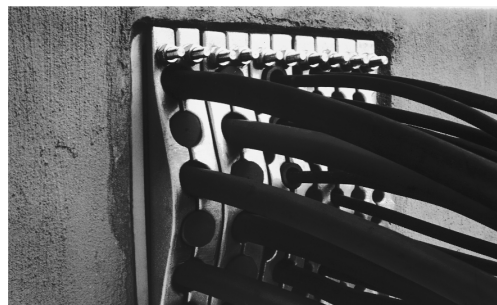
- Few parts required to seal a wide range of diameters of cables or conduits
- Easy and fast installation, using factory assembled components
- High degree of flexibility with interchangeable sealing block assemblies and a selection of different sizes of frames

Mounting frame

- One-piece cast malleable iron or steel mounting frame can be cast into concrete during wall construction, grouted in masonry surfaces or welded into steel bulkheads at any time
- Retrofit frame allows for easy installation of frame where cables/conduit are already installed
- Available in sizes to accommodate a wide range of cable tray sizes and loadings, including single and multiple layers of cables for power or instrument applications
- Cast keyways in mounting frame align and position sealing block assemblies
- Frames can be installed in wall such that sealing block assemblies can be inserted in either horizontal or vertical position

Sealing block assembly

- Specially formulated elastomeric material between cast malleable iron pressure plates protects cable from mechanical damage; provides high pull-out resistance and positive cable separation; expands during fire to seal any voids left by burned cable insulation
- Interchangeable sealing block assemblies fit all THRU-WALL BARRIER mounting frames
- Cast stops on front pressure plate prevent sealing block assembly from slipping through mounting frame during installation
- Assemblies are offered for all cable/conduit outside diameters from .250" to 4.500" (6.4 mm to 114.3 mm); cables with diameters less than .250" can be accommodated – consult Eaton's Crouse-Hinds
- Sealing block openings will accommodate undersize and out-of-round cable
- Each sealing block assembly seals multiple cables/conduits; compact design permits close nesting of cables, saving space
- Reducers permit sealing block assemblies to accept cables with smaller O.D. than the specified range
- Plugs are used to fill unused openings in sealing block assemblies; blank sealing block assemblies fill unused spaces in mounting frames, providing for future expansion



Certifications and Compliances:

- ASTM Standard E-119
- NFPA 251
- UL Classification per UL Standard 1479
- USCG Acceptance – consult Eaton's Crouse-Hinds
- NAVSEA Approval – Electric Plant Installation Standard Methods No. S9300- AW-EDG-010/EPISM – TWFS/TWBS assemblies

Standard Materials:

- Mounting frame:
 - TWF, TWFR – cast malleable iron
 - TWFS – cast carbon steel, ASTM A27 Grade 60-30
- Pressure plate – cast malleable iron
- Sealing material – special elastomeric material
- Clamping hardware – steel

Standard Finishes:

- Malleable iron and hardware – electrogalvanized
- Steel – aluminized weldable paint
- Special elastomeric material – natural

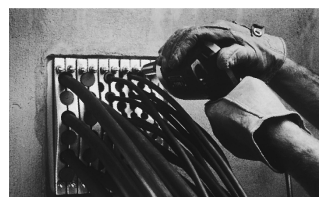
Easy three step installation



1. Cast, grout or weld the one-piece mounting frame into masonry or steel surface.



2. Feed cables/conduit through the frame.



3. Position cables/conduit, insert factory assembled sealing blocks into keyways in mounting frame, and tighten nuts on clamping hardware to effect the seal.

TW Series THRU-WALL BARRIER® Cable/Conduit Sealing Device

4F

Sealing Block Assemblies & Mounting Frames Ordering Information

TWB Sealing Block Assemblies

TWB sealing block assemblies are offered for cable/conduit outside diameters (O.D.) from .250" to 4.500" (6.4 mm to 114.3 mm). Cables with diameters less than .250" can be accommodated – consult Eaton's Crouse-Hinds. Each assembly opening will accommodate a .250" (6.4 mm) O.D. range. When clamping hardware is tightened, the elastomeric material is uniformly compressed around all cable/conduits for a completely tight fit.

Sealing block assemblies are offered for use in marine applications. Each assembly has the required lubrication and sealing gaskets to meet U.S. Navy Hydrostatic Pressure Test Requirements. Assemblies for marine applications are available for cable/conduit outside diameters (O.D.) from .250" (6.4 mm) through 3.500" (88.9 mm). To order, add suffix S to TWB sealing block assembly Cat. No. Example: TWBS4036.



TWB2063

Depending on opening size range, a standard sealing block assembly will seal from one to eleven cables

Opening Size Range	In. mm	.250–.500 6.4–12.7	.500–.750 12.7–19.1	.750–1.000 19.1–25.4	1.000–1.250 25.4–31.8	1.250–1.500 31.8–38.1	1.500–1.750 38.1–44.5	1.750–2.000 44.5–50.8	2.000–2.250 50.8–57.2	2.250–2.500 57.2–63.5
No. Openings In Block		11 11 Added*	6 11 Added*	6	5	4	3	3	3	2
Sealing Block Assembly Cat. #		TWB2111 TWB1111	TWB2062 TWB2112	TWB2063	TWB3054	TWB3045	TWB30355	TWB4036	TWB40366	TWB5027
Frame Spaces Required		2 1	2 2	2	3	3	3	4	4	5
Plug Cat. #		TWP1		TWP3		TWP5		TWP6		TWP7
Reducer Cat. # §		—	TWR2	TWR3	TWR4	TWR5	TWR55	TWR6	TWR66	TWR7

TWF Mounting Frames

TWF(S) mounting frames may be installed either horizontally or vertically. TWFR retrofit frames are used wherever cables/conduits are already installed through a fire- or non-fire-rated wall, floor or ceiling. They are designed with a removable section to permit installation around cables/conduits. TWFR retrofit frames can be grouted into walls, floors, or ceilings, or welded into steel bulkheads or decks. TWFR retrofit frames will perform in the same manner as the one-piece TWF(S) frames.

TWFS steel mounting frames are welded directly into steel bulkheads, decks and prepared sleeves. For marine applications, keeper bars are provided to securely hold TWBS sealing block assemblies in position when installed.



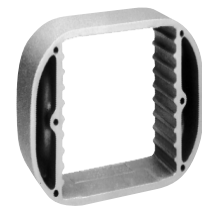
TWF12



TWF6



TWF10



TWFS10

No. of Spaces Available	Frame Cat. #	Retrofit Frame Cat. #	Cast Steel Frame Cat. #
6	TWF6	TWFR6	
10	TWF10	TWFR10	TWFS10
12	TWF12†	TWFR12†	
20	TWF20	TWFR20	TWFS20
24	TWF24	TWFR24	
30	TWF30	TWFR30	TWFS30

†Includes removable partition.

†For 3.5" - 4" cable/conduit – use TWB7011010 assembly and reduce down using TWR reducers.

*Catalog # TWB1111 and TWB2112 are used between TWB2111 and TWB2062 in cases where the number of cables to be sealed in .250-.750 range exceeds the number of openings in standard assemblies. Use as many of these higher density assemblies as needed, sandwiched between halves of a standard assembly.

§TWR reducers match TWB sealing block assemblies shown in column above Cat. No. and reduce openings to accept cable size ranges shown in adjacent column to the left (in direction of arrow).

Crouse-Hinds

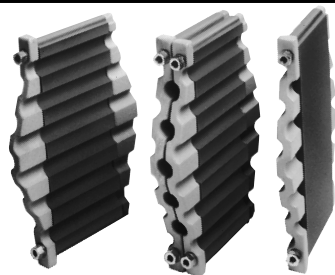
by **E.T.N**

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TW Series THRU-WALL BARRIER® Cable/Conduit Sealing Device

Plugs, Reducers, Closure Cover Kits, Anchors & Lubricant
Ordering Information

4F



TWB2112 TWB2062

TWP Plugs



TWP plugs will close any unused openings in sealing block assemblies. See table for plug catalog numbers which match specific sealing block assemblies.

TWR Reducers



TWR reducers will reduce openings by .250" (6.4 mm) in sealing block assemblies. See table for reducer catalog numbers which match specific sealing block assemblies. More than one reducer can be used in a single opening.

It is possible to increase cable fill density with double-sided sealing block assemblies (TWB1111 and TWB2112) sandwiched between halves of a standard assembly.

2.500–2.750 63.5–69.9	2.750–3.000 69.9–76.2	3.000–3.250 76.2–82.6	3.250–3.500 82.6–88.9	3.500–4.250† 101.6–108.0	4.250–4.500 108.0–114.3	Blank – No Openings	
2	2	2	2	1	1	None	None
TWB50277	TWB5028	TWB60288	TWB6029	TWB7011010	TWB70111	TWB1	TWB3
5	5	6	6	7	7	1	3
TWP7	TWP8		TWP9	TWP10	TWP11	—	
TWR77	TWR8	TWR88	TWR9 TWR99	TWR1010 TWR10	TWR11	—	

TWB Closure Cover Kits

TWB closure cover kits offer an optional method to close TWB frames installed for future expansion or those that are abandoned. Closure cover kits include two covers clamped to opposite sides of the frame with hardware provided. The insulating material provided is sandwiched between the two covers to maintain the fire rating of the assembly. See table below for closure kit catalog numbers.

No. of Spaces Available	Closure Cover Kit Cat. #*
6	TWB600‡
10	TWB1000
12	TWB600‡
20	TWB2000
24	TWB2400
30	TWB3000

*TWB closure cover kits are not designed to provide a watertight seal in marine/shipboard applications or washdown areas. One kit seals one unused frame opening of same size. Example: use one TWB2000 kit to seal one TWB20, or TWFR20 frame.

‡Use two TWB600 kits to seal one TWB12 or TWFR12 frame opening.

TWK Anchors

TWK anchor assemblies are used to attach mounting frames to wall, ceiling or floor when grouting in frames.

Mounting Type	Cat. #
Flush	TWK1
Recessed	TWK2

TW Series THRU-WALL BARRIER® Cable/Conduit Sealing Device

4F

Ordering Example A

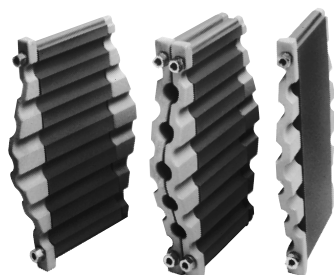
Product Information

Selecting and specifying THRU-WALL BARRIER components is a simple procedure. Primary components for the THRU-WALL BARRIER consist of TWF mounting frames in various sizes and TWB sealing block assemblies for cable/conduit outside diameters (O.D.) in 1/4-inch increments from .250" to 4.500" (6.4 mm to 114.3 mm). Cables with diameters less than .250" can be accommodated – consult Eaton's Crouse-Hinds.

Cable/conduit sizes can be mixed within a sealing block assembly by inserting TWR reducers to accommodate smaller diameters. The use of reducers can decrease the number of sealing block assemblies required. More than one reducer can be used in a single opening.

Another way to increase density is to use TWB1111 and TWB2112 sealing block assemblies wherever there is a large number of cables/conduits in sizes ranging from .250" to .750".

TWB2112



TWB2062

TWB2062

Shown here is a double-sided sealing block assembly (TWB2112) sandwiched between halves of a standard sealing block assembly (TWB2062). Additional double-sided sealing block assemblies may be used to accommodate larger quantities of cables or conduits.

Unused sealing block openings must be closed with TWP plugs. Blank sealing block assemblies TWB1 and TWB3 are used to fill each unused space in the mounting frame and permit future expansion of the system. Typical practice is to include space allowance of 20 to 50% for future expansion. TWP closure kits are used to seal entire frames and permit future system expansion.

Specifying & Ordering

The selection of components is based on the quantity and sizes of cables or conduits going through the penetrations. Once these are known, the sealing block assemblies and frames can be selected.

Step 1. Group cables/conduits by outside diameter (O.D.) and rank from the largest to the smallest.

Step 2. Keeping in mind that sealing block assemblies are available in one-quarter inch increments, group cables/conduits that fall within the same sealing block assembly O.D. size range.

Step 3. Starting with the largest cable/conduit O.D., select the sealing block assemblies required. All openings in each sealing block assembly must be filled.

Specify TWR reducers to accommodate smaller diameter cables where possible and TWP plugs to fill openings not used.

Step 4. Total the frame spaces required for the specified sealing block assemblies and select an appropriate mounting frame(s). Frames are available in 6-, 10-, 12-, 20-, 24- and 30-space sizes. Keep future expansion requirements in mind when specifying frame. Specify blank sealing block assemblies to fill unused mounting frame space and TWB closure cover kits to fill unused frames.

Step 5. Check specification/order to be sure it includes 1) frames, 2) sealing block assemblies, 3) plugs and 4) reducers.

Ordering Example A:

Cable tray size: 24"

Cables specified: 5 power cables – sizes ranging from 1.960" to 2.200" O.D.

Spare capacity required: 50%

Step 1. Group cables by O.D. and rank from largest to smallest.

	Cable Qty.	Cable O.D.
	4	2.200
	1	1.960
Total	5	

Step 2. Group cables that fall within the same sealing block assembly size.

	Cable Qty.	Sealing Block O.D. Range
	4	2.000–2.250
	1	1.750–2.000
Total	5	

Step 3. Starting with the largest cable O.D., select the quantity of sealing block assemblies required. Specify TWR reducers to accommodate smaller

diameter cables where possible and TWP plugs to fill openings not used. (See Example A diagram.)

Note: In the example, one TWR66 reducer is required to accommodate the cable with 1.960 O.D. and one TWP6 plug is required for the unused opening.

Step 4. Total the frame spaces required for sealing block assemblies and select appropriate size mounting frame. Factor in spare capacity required for future expansion.

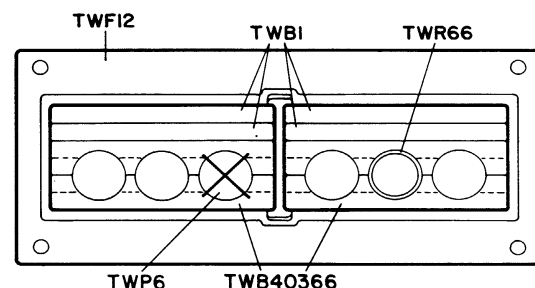
Total frame spaces required	8
Specification requires 50% spare capacity	4
Total spaces	12

Selection: One TWF12 mounting frame with capacity of 12 spaces. Four TWB1 blank sealing block assemblies to fill unused frame space. (Choice of frame could vary based on future expansion needs and/or specific cable arrangement.)

Sealing Block Assy Cat. #	O.D. Range	Number of Openings	Cables to be Sealed	Number of Openings	Cables to be Sealed
TWB40366	2.000–2.250	3	3	—	4
TWB40366	2.000–2.250	3	2	1	4
Totals		66	5	1	8

Step 5. Bill of materials for specification/order should read:

- (1) TWF12
- (2) TWB40366
- (4) TWB1
- (1) TWR66
- (1) TWP6



Example A diagram

TW Series THRU-WALL BARRIER® Cable/Conduit Sealing Device

Ordering Example B Dimensions

4F

Ordering Example B:

Cable tray size: 24"

Cables specified: 6 power cables – sizes ranging from 2.140" to 2.180" O.D. 31 control cables – sizes ranging from .550" to .945" O.D.

Spare capacity required: 25%

Step 1. Group cables by O.D. and rank from largest to smallest.

Cable Qty.	Cable O.D.
4	2.180
2	2.140
1	.945
4	.890
7	.700
9	.637
10	.550
Total	37

Step 2. Group cables that fall within the same sealing block assembly size.

Cable Qty.	Sealing Block O.D. Range
6	2.000–2.250
5	.750–1.000
26	.500–.750
Total	37

Step 3. Starting with the largest cable O.D., select the quantity of sealing block assemblies required. Specify TWR reducers to accommodate smaller diameter cables where possible and TWP plugs to fill openings not used. (See Example B diagram.)

Sealing Block Assy Cat. #	O.D. Range	Number of Openings	Cables to be Sealed	Openings Not Used	Frame Spaces Required
TWB40366	2.000–2.250	3	3	—	4
TWB40366	2.000–2.250	3	3	—	4
TWB2063	.750–1.000	6	5	1	2
TWB2062	.500–.750	6	6	—	2
TWB2112	.500–.750	11	11	—	2
TWB2112	.500–.750	11	9	2	2
Totals		40	37	3	16

Note: In this example, two TWB2112 sealing block assemblies are sandwiched between two halves of a TWB2062. This dramatically increases cable density in minimum frame space. One TWP3 plug is required for unused opening in TWB2063 and two TWP1 plugs are required for unused openings in the TWB2112.

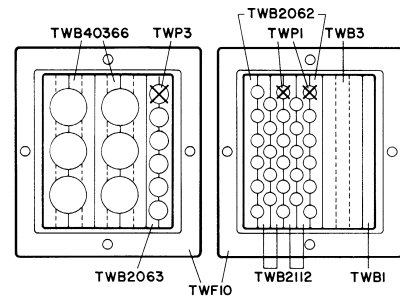
Step 4. Total the frame spaces required for sealing block assemblies and select appropriate size mounting frame(s). Factor in spare capacity required for future expansion.

Total frame spaces required	16
Specification requires 25% spare capacity	4
Total	20

Selection: Two TWF10 (or one TWF20) mounting frames with total capacity of 20 spaces. One TWB3 and one TWB1 blank sealing block assembly to fill unused frame space. (Choice of frame could vary based on future expansion needs and/or specific cable/conduit arrangement.)

Step 5. Bill of materials for specification/order should read:

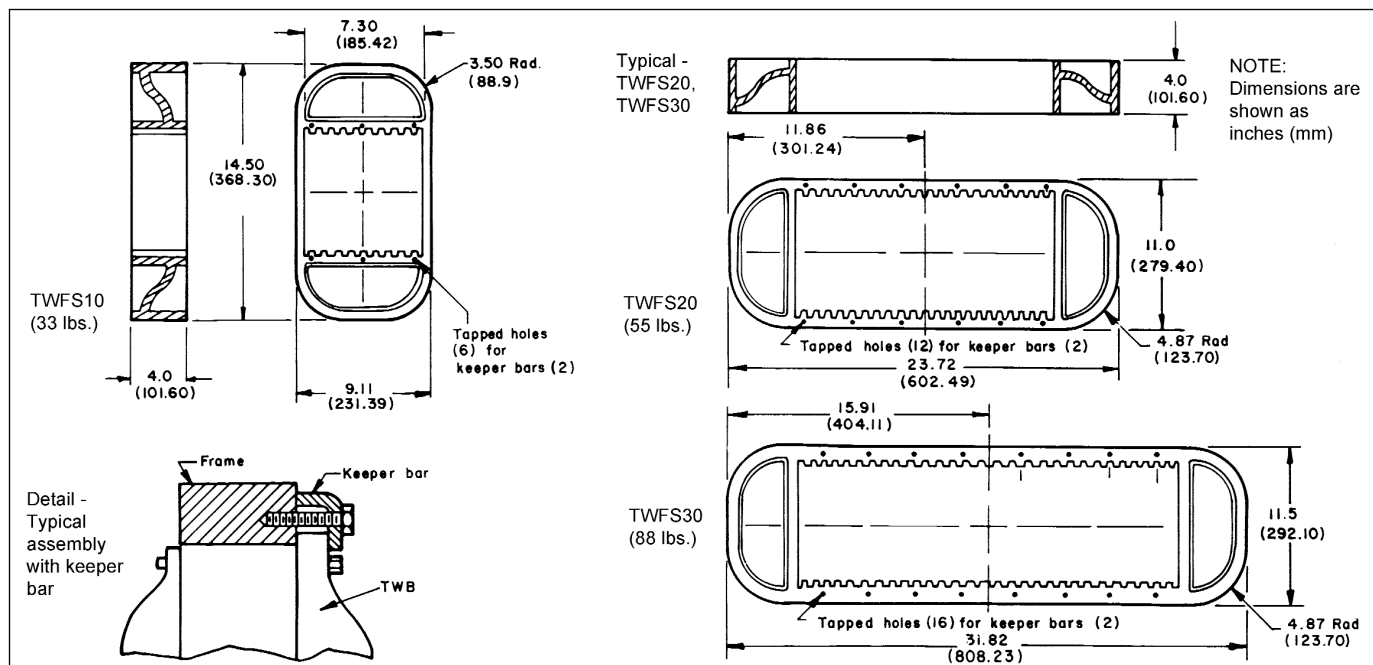
- (2) TWF10 or (1) TWF20
- (2) TWB40366
- (1) TWB2063
- (1) TWB2062
- (2) TWB2112
- (1) TWP3
- (2) TWP1
- (1) TWB3
- (1) TWB1



Example B diagram

*For TWFS mounting frame hole dimensions, contact Eaton's Crouse-Hinds ECM field representative or headquarters.

Dimensions In Inches:

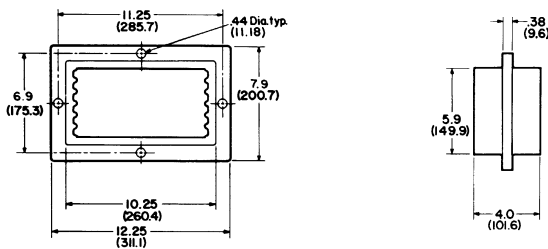


TW Series THRU-WALL BARRIER® Cable/Conduit Sealing Device

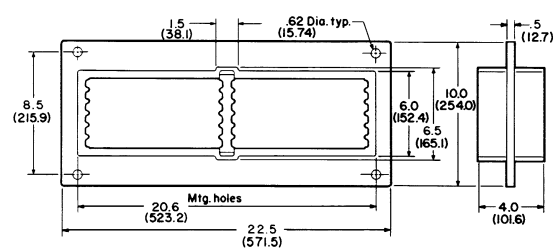
4F

Dimensions*

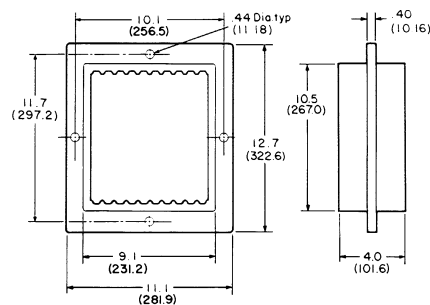
Dimensions In Inches:



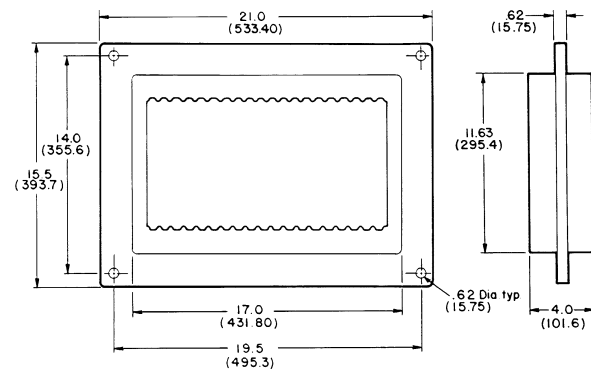
TWF6 (20 lbs.)



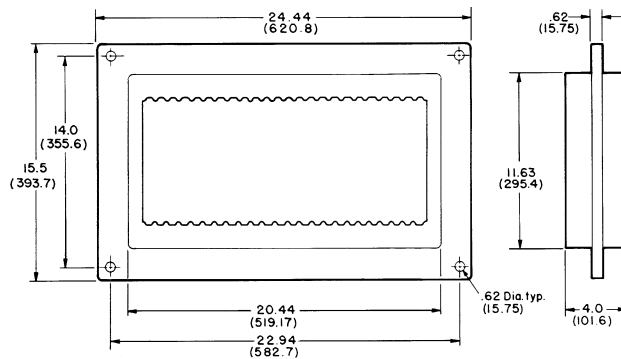
TWF12 (38 lbs.)



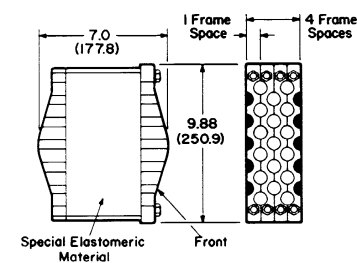
TWF10 (25 lbs.)



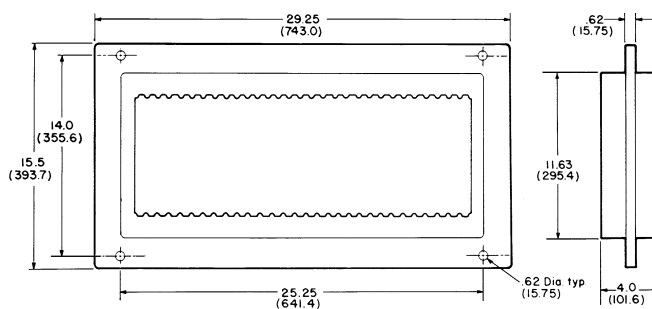
TWF20 (82 lbs.)



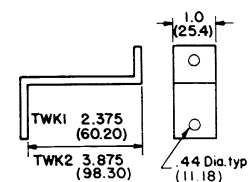
TWF24 (88 lbs.)



TWB



TWF30 (97 lbs.)



TWK

1. Dimensions are shown as inches (mm).
2. Dimensions shown for TWF frames also apply for TWFR retrofit frames.

*For TWF mounting frame hole dimensions, contact Eaton's Crouse-Hinds ECM field representative or headquarters.

4F Link-Seal® Devices

Wet Locations
Corrosive Environments

Environmental Seal for Conduit Passing Through Concrete Walls, Floors, or Ceilings

4F

Link-Seal Devices Applications:

- Eaton's Crouse-Hinds Link-Seal® is the quick, economical way to seal around conduit in concrete walls, floors and casings. Link-Seal is a modular mechanical seal used for any type of penetration.

Features and Benefits:

- Saves time and money – Link-Seal installs in up to 75% less time than competition products
- Positive Hydrostatic Sealing – properly installed, Link-Seal is rated at 20 psig (40 feet of head), which exceeds the performance requirements of most applications
- Environment Seals – Link-Seal environmental seal is designed for long life and use as a permanent seal. Seal elements are specially compounded to resist aging, ozone, sunlight, water and a wide range of chemicals
- Fire Seals – for fire protection in floor and wall penetrations Link-Seal is Factory Mutual approved
- Resistance to high and low temperatures – Link-Seal environmental seal is manufactured from special compounds that resist temperatures from -40°F to +250°F. Link-Seal Fire Seal is manufactured from a silicone material that resists temperatures from -67°F to +400°F
- Corrosion protection – where installation against galvanic corrosion (or electrolysis) is required, Link-Seal provides complete separation pipe and casing. Metal-to-metal contact is eliminated
- Compensates for misalignment – Link-Seal allows for some angular and off-center conduit conditions and still seals effectively
- Absorbs shock, sound and vibration – this inherent benefit of Link-Seal helps reduce conduit failure due to fatigue and threaded connections

Standard Materials:

- Rubber Seal Elements:
EPDM (Black) – Environmental Seals
Silicone (Grey) – Fire Seals
- Pressure Plates:
Glass Reinforced Nylon – Environmental Seals
Steel w/Zinc Dichromate Plate – Fire Seals
- Fasteners:
Carbon Steel, Zinc Dichromate Plate – Environmental Seals
316 Stainless Steel – Environmental with Option S316
Carbon Steel w/Zinc Dichromate – Fire Seals

Environmental Conduit Seal

Ordering Information:

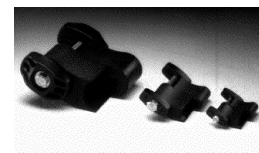
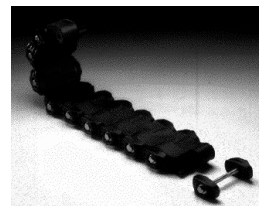
It's easy. Locate the conduit size and type you are installing in the columns on the left. Then locate the seal and sleeve part numbers under the installation method you've selected. No sleeve is needed for cored or cast hole installation.

Cored or Cast Hole Method:

Note the appropriate hole diameter and select the seal part number. Example: For 3/4" EMT conduit through a cored hole – Core a 2" diameter hole and install the conduit using Link-Seal part number LSA200-C-04.

Sleeve Methods:

Select either the plastic or metal sleeve. Both types of sleeves are designed to be cast into concrete walls or floors. Sleeves are ordered separately. Remember to add the wall or floor thickness to the steel sleeve part number to insure the sleeve is provided in the proper length. Plastic sleeves are a standard 16 long and can be modified in the field.



Materials:

The standard product for environmental conduit seals is made from EPDM supplied with steel bolts and nuts with a zinc dichromate finish. These seals are suitable for use in water, direct ground burial and atmospheric conditions. They provide electrical insulation where cathodic protection is required. EPDM rubber is resistant to most inorganic acids and alkalis, and some organic chemicals (acetone, alcohol, ketones).

Options:

To order the standard product with 316 stainless steel bolts and nuts, for corrosive environments, replace the "C" in the seal catalog number with "S316". For example, a 1/2" seal for rigid steel conduit for a cored hole is an LSA200-C-04; ordered with stainless steel bolts and nuts the catalog number becomes LSA200-S316-04.

Environmental Seal for Conduit passing through Concrete Walls, Floors or Ceilings

4F

Ordering Information - Environmental Conduit Seal

Conduit Nominal Size	Conduit Type*	Conduit Actual O.D. (inches)	Cast/Cored Hole Dia. (inches)	Seal for Cast/Cored Hole Cat. #	Plastic Sleeve Cat. #	Seal for Plastic Sleeve Cat. #	Steel Sleeve Cat. #	Seal for Steel Sleeve Cat. #
1/2"	EMT	.706	2.000	LSA275 C 04	LS CS 2 16	LSA200 C 04	WS2 15 ①	LSA275 C 04
1/2"	IMC	.815	2.000	LSA200 C 04	LS CS 2 16	LSA200 C 04	WS2 21 ①	LSA200 C 04
1/2"	RSC	.840	2.000	LSA200 C 04	LS CS 2 16	LSA200 C 04	WS2 21 ①	LSA200 C 04
3/4"	EMT	.922	2.000	LSA200 C 04	LS CS 3 16	LSA315 C 04	WS2 15 ①	LSA200 C 04
3/4"	IMC	1.029	2.500	LSA275 C 06	LS CS 3 16	LSA315 C 04	WS2 15 ①	LSA200 C 04
3/4"	RSC	1.050	2.500	LSA275 C 06	LS CS 3 16	LSA315 C 04	WS2.5 20 ①	LSA275 C 06
1"	EMT	1.163	2.500	LSA315 C 04	LS CS 3 16	LSA300 C 04	WS2.5 20 ①	LSA275 C 06
1"	IMC	1.290	3.000	LSA300 C 04	LS CS 3 16	LSA300 C 04	WS2.5 10 ①	LSA275 C 06
1"	RSC	1.315	3.000	LSA300 C 04	LS CS 3 16	LSA300 C 04	WS2.5 20 ①	LSA200 C 05
1 1/4"	EMT	1.510	3.000	LSA300 C 04	LS CS 3.5 16	LSA315 C 05	WS3.5 22 ①	LSA315 C 05
1 1/4"	IMC	1.638	3.000	LSA275 C 07	LS CS 3.5 16	LSA300 C 05	WS3.5 22 ①	LSA315 C 05
1 1/4"	RSC	1.660	3.000	LSA275 C 07	LS CS 3 16	LSA200 C 06	WS3.5 22 ①	LSA315 C 05
1 1/2"	EMT	1.740	3.500	LSA315 C 05	LS CS 3.5 16	LSA300 C 05	WS3.5 32 ①	LSA315 C 05
1 1/2"	IMC	1.883	3.500	LSA300 C 05	LS CS 3.5 16	LSA275 C 08	WS3.5 22 ①	LSA300 C 05
1 1/2"	RSC	1.900	3.500	LSA300 C 05	LS CS 3.5 16	LSA275 C 08	WS3.5 22 ①	LSA300 C 05
2"	EMT	2.197	4.000	LSA315 C 06	LS CS 4 16	LSA315 C 06	WS4 23 ①	LSA315 C 06
2"	IMC	2.360	4.000	LSA300 C 06	LS CS 4 16	LSA300 C 06	WS4 23 ①	LSA300 C 06
2"	RSC	2.375	4.000	LSA300 C 06	LS CS 4 16	LSA300 C 06	WS4 23 ①	LSA300 C 06
2 1/2"	EMT/RSC	2.875	4.000	LSA200 C 09	LS CS 4 16	LSA200 C 09	WS4 23 ①	LSA200 C 09
2 1/2"	IMC	2.857	4.000	LSA200 C 09	LS CS 4 16	LSA200 C 09	WS4 23 ①	LSA200 C 09
3"	EMT/RSC	3.500	5.000	LSA300 C 08	LS CS 5 16	LSA300 C 08	WS5 25 ①	LSA300 C 08
3"	IMC	3.476	5.000	LSA300 C 08	LS CS 5 16	LSA300 C 08	WS5 25 ①	LSA300 C 08
3 1/2"	EMT/RSC	4.000	6.000	LSA325 C 05	LS CS 6 16	LSA325 C 05	WS6 28 ①	LSA325 C 05
3 1/2"	IMC	3.971	6.000	LSA325 C 05	LS CS 6 16	LSA325 C 05	WS6 28 ①	LSA325 C 05
4"	EMT/RSC	4.500	6.000	LSA300 C 10	LS CS 6 16	LSA300 C 10	WS6 28 ①	LSA300 C 10
4"	IMC	4.466	6.000	LSA300 C 10	LS CS 6 16	LSA300 C 10	WS6 28 ①	LSA300 C 10
5"	RSC	5.563	8.000	LSA425 C 06	LS CS 8 16	LSA425 C 06	WS8 32 ①	LSA425 C 06
6"	RSC	6.625	10.000	LSA475 C 10	LS CS 10 16	LSA475 C 10	WS8 18 ①	LSA300 C 15

*EMT – Electrical Metallic Tubing; IMC – Intermediate Metal Conduit; RSC – Rigid Steel Conduit

①Specify length of steel sleeve in inches. Example: S6-28-08 is 8" long. All plastic sleeves come in standard 16" lengths and can be field cut to desired length.

The last two digits of the seal part number indicate the number of links (and the number of bolts) per seal.

Fire Seal for Conduit passing through Concrete Walls, Floors or Ceilings

4F

Fire Conduit Seal Ordering Information:

Locate the conduit size and type you are installing in the columns on the left. Then locate the seal and sleeve part number under the installation method you've selected. No sleeve is needed for cored or cast hole installation.

Cored or Cast Hole Method:

Note the appropriate hole diameter and select the seal part number. Example: For 3/4" EMT conduit through a cored hole – Core a 2" diameter hole and install the conduit using Link-Seal Part number LSA200-T-04.

Sleeve Methods:

Select the appropriate metal sleeve for the size and type of conduit being installed. The sleeve should be ordered separately. Remember to add the wall or floor thickness to the steel sleeve part number to insure the sleeve is provided in the proper length.

Materials:

The standard product for fire conduit seals is made from grey silicone supplied with steel bolts and nuts with a zinc dichromate finish. These seals are Factory Mutual approved for use as a 1-hour fire stop and can handle temperature extremes of -67°F to +400°F.

Options:

To order the fire seal for a 3-hour rating, replace the "T" in the seal catalog number with a "FS". For example, a 1/2" seal for rigid steel conduit for a cored hole is an LSA200-T-04; ordered with option FS the catalog number becomes LSA200-FS-04. A 3-hour fire seal can also be made by using two Model T's back-to-back. The Model FS is basically two Model T's back-to-back. In Model FS, a tie rod tightens both seals simultaneously – for use when only one side of an opening is accessible.

Fire Conduit Seal - Ordering Information

Conduit Nominal Size	Conduit Type*	Conduit Actual O.D. (inches)	Cast/Cored Hole Dia. (inches)	Seal for Cast/Cored Hole Cat. #	Steel Sleeve Cat. #	Seal for Steel Sleeve Cat. #
1/2"	EMT	0.706	2.000	LSA275 T 04	WS2 15 ①	LSA275 T 04
1/2"	IMC	0.815	2.000	LSA200 T 04	WS2 21 ①	LSA200 T 04
1/2"	RSC	0.840	2.000	LSA200 T 04	WS2 21 ①	LSA200 T 04
3/4"	EMT	0.922	2.000	LSA200 T 04	WS2 15 ①	LSA200 T 04
3/4"	IMC	1.029	2.500	LSA275 T 06	WS2 15 ①	LSA200 T 04
3/4"	RSC	1.050	2.500	LSA275 T 06	WS2.5 20 ①	LSA275 T 06
1"	EMT	1.163	3.000	LSA315 T 04	WS2.5 20 ①	LSA275 T 06
1"	IMC	1.290	3.000	LSA300 T 04	WS2.5 10 ①	LSA275 T 06
1"	RSC	1.315	3.000	LSA300 T 04	WS2.5 20 ①	LSA200 T 05
1 1/4"	EMT	1.510	3.000	LSA300 T 04	WS3.5 22 ①	LSA315 T 05
1 1/4"	IMC	1.638	3.000	LSA275 T 07	WS3.5 22 ①	LSA315 T 05
1 1/4"	RSC	1.660	3.000	LSA275 T 07	WS3.5 22 ①	LSA300 T 05
1 1/2"	EMT	1.740	3.500	LSA315 T 05	WS3.5 32 ①	LSA300 T 05
1 1/2"	IMC	1.883	3.500	LSA300 T 05	WS3.5 22 ①	LSA300 T 05
1 1/2"	RSC	1.900	3.500	LSA300 T 05	WS3.5 22 ①	LSA275 T 08
2"	EMT	2.197	4.000	LSA315 T 06	WS4 23 ①	LSA315 T 06
2"	IMC	2.360	4.000	LSA300 T 06	WS4 23 ①	LSA300 T 06
2"	RSC	2.375	4.000	LSA300 T 06	WS4 23 ①	LSA300 T 06
2 1/2"	EMT/RSC	2.875	4.000	LSA200 T 09	WS4 23 ①	LSA200 T 09
2 1/2"	IMC	2.857	4.000	LSA200 T 09	WS4 23 ①	LSA200 T 09
3"	EMT/RSC	3.500	5.000	LSA300 T 08	WS5 25 ①	LSA300 T 08
3"	IMC	3.476	5.000	LSA300 T 08	WS5 25 ①	LSA300 T 08
3 1/2"	EMT/RSC	4.000	6.000	LSA325 T 05	WS6 28 ①	LSA325 T 05
3 1/2"	IMC	3.971	6.000	LSA325 T 05	WS6 28 ①	LSA325 T 05
4"	EMT/RSC	4.500	6.000	LSA300 T 10	WS6 28 ①	LSA300 T 10
4"	IMC	4.466	6.000	LSA300 T 10	WS6 28 ①	LSA300 T 10
5"	RSC	5.563	8.000	LSA425 T 06	WS8 32 ①	LSA425 T 06
6"	RSC	6.625	10.000	LSA475 T 10	WS8 18 ①	LSA300 T 15

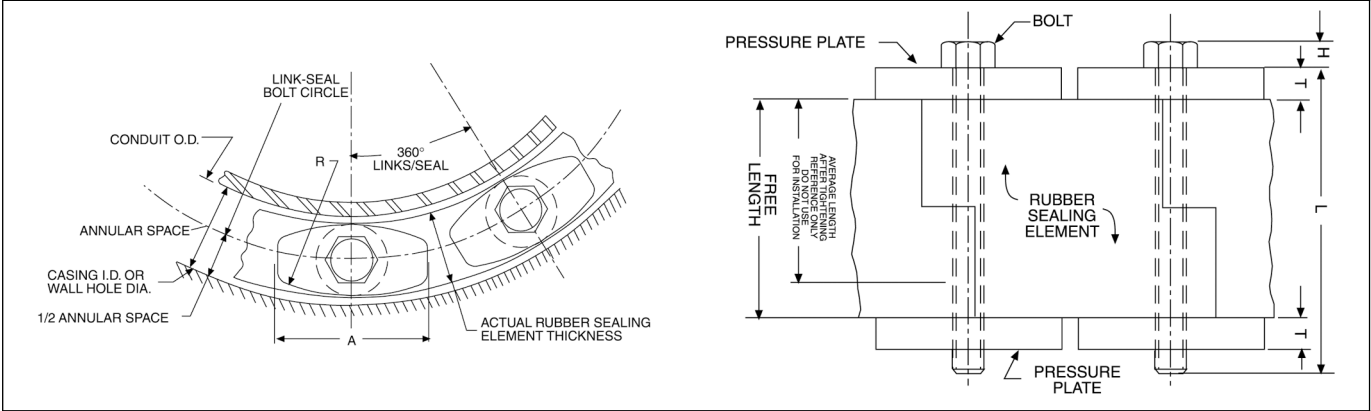
①Specify length of steel sleeve in inches. Example: WS6-28-08 is 8" long.

*EMT – Electrical Metallic Tubing; IMC – Intermediate Metal Conduit; RSC – Rigid Steel Conduit

The last two digits of the seal part number indicate the number of links (and the number of bolts) per seal.

Dimensions

In Inches:



Technical Information

Link-Seal Cat. #	Rubber Sealing Element			Pressure Plate			Bolt			
	Actual Thickness (inches)	Free Length (inches)	Avg. Length After Tightening (inches)	A (inches)	R (inches)	T (inches)	Hex Across Flats	H (inches)	Thread Size (inches)	L
LSA200 C	.478	1¾	1⅝	1⅙	2¼	⅝ ₁₆	M5 slotted hex	.180	M5	2½
LSA275 C	.607	1¾	1⅝	7⁄8	1⅞	⅝ ₁₆	M5 slotted hex	.180	M5	2½
LSA300 C	.687	2½	2	1½	2½	7⁄16	½	7⁄32	5/16–5/18	3½
LSA315 C	.807	2½	2	17⁄16	2½	7⁄16	½	7⁄32	5/16–5/18	3½
LSA325 C	.875	3	2⅝	3⅞	2	½	½	7⁄32	5/16–5/18	4
LSA425 C	1.062	3½	2¾	3½	3	¾	9⁄16	¼	3/8–3/16	5
LSA475 C	1.562	3½	2¾	3½	3½	½	9⁄16	¼	3/8–3/16	4½

