

T&B® Fittings

T&B® Stainless Steel Conduit & Fittings



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Thomas&Betts

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Rigid and Intermediate Metal Conduit and Fittings

Form 8 Conduit Bodies

Application

Conduit Bodies are installed in conduit systems to:

- Connect conduit sections
- Act as pull outlets when conductors are being installed
- Provide easy access for splices in branch conductors
- Make 90° bends in conduit runs
- Act as mounting outlets for wiring devices and lighting fixtures
- Provide access to conductors for maintenance and future system changes
- Suitable for use in food and beverage, pharmaceutical, petrochemical, wastewater treatment, pulp and paper processing and other corrosive environments

Features

- Standard features include tapered (NPT) threads and integral bushings to protect wire insulation
- Conduit bodies ship complete with covers and gaskets
- Marine-grade Type 316 stainless steel construction in rugged Form 8 design

Standard Material

Bodies Type 316 stainless steel

Covers Cast and stamped Type 316 stainless steel with stainless steel screws

Gaskets Neoprene

Standard Finish

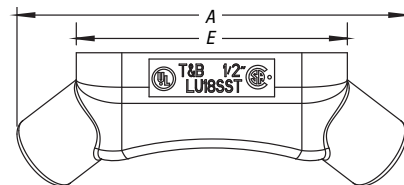
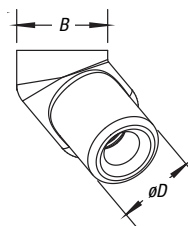
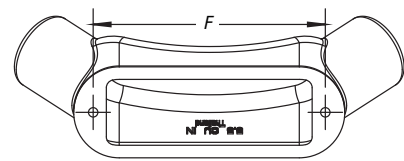
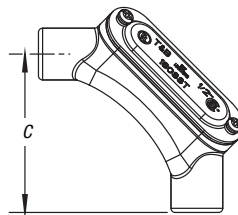
Bodies and Covers Polished

Listings/Compliances

UL® Standard: 514A, 514B

Fed. Spec: W-C-586D

CSA Standard: C22.2 No. 18



LU Form 8 Conduit Bodies with Covers

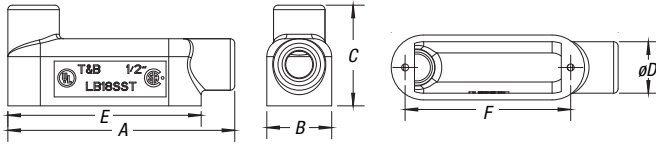


CAT. NO.	HUB SIZE	DIMENSIONS (IN.)							CU. IN.
		A	B	C	D	E	F		
LU18SST	½"	6.210	1.450	3.825	1.125	4.320	3.700	5.5	
LU28SST	¾"	6.981	1.645	4.245	1.500	4.921	4.300	8.5	
LU38SST	1"	8.261	1.850	5.050	1.700	5.625	5.000	14.5	
LU48SST	1¼"	9.923	2.200	5.975	2.200	6.730	5.810	26.5	
LU58SST	1½"	11.549	2.813	7.000	2.450	7.938	7.125	45.0	
LU68SST	2"	13.989	3.820	8.500	2.900	9.797	9.125	116.5	



Rigid and Intermediate Metal Conduit and Fittings

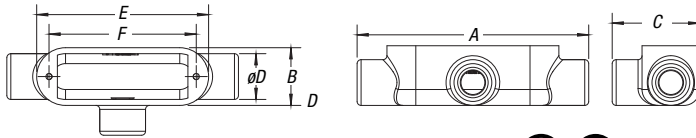
LB Form 8 Conduit Bodies with Covers



CAT. NO.	HUB SIZE	DIMENSIONS (IN.)						
		A	B	C	D	E	F	CU. IN.
LB18SST	1/2"	5.070	1.450	2.250	1.150	4.320	3.700	5.8
LB28SST	3/4"	5.671	1.645	2.530	1.400	4.921	4.300	8.0
LB38SST	1"	6.563	1.850	2.913	1.750	5.625	5.000	13.0
LB48SST	1 1/4"	7.734	2.200	3.315	2.200	6.730	5.810	23.0
LB58SST	1 1/2"	8.992	2.813	3.800	2.450	7.938	7.125	44.0
LB68SST	2"	11.000	3.820	4.810	2.900	9.797	9.125	88.0



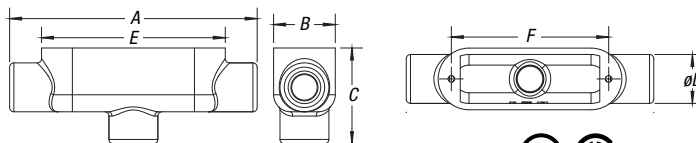
T Form 8 Conduit Bodies with Covers



CAT. NO.	HUB SIZE	DIMENSIONS (IN.)						
		A	B	C	D	E	F	CU. IN.
T18SST	1/2"	5.820	1.450	2.200	1.150	4.320	3.700	5.5
T28SST	3/4"	6.420	1.645	2.395	1.400	4.921	4.300	9.0
T38SST	1"	7.500	1.850	2.850	1.750	5.625	5.000	13.5
T48SST	1 1/4"	8.738	2.200	2.950	2.200	6.730	5.810	24.0
T58SST	1 1/2"	10.046	2.813	3.867	2.450	7.938	7.125	45.0
T68SST	2"	12.204	3.820	5.070	2.900	9.797	9.125	88.0



TB Form 8 Conduit Bodies with Covers



CAT. NO.	HUB SIZE	DIMENSIONS (IN.)						
		A	B	C	D	E	F	CU. IN.
TB18SST	1/2"	5.820	1.450	2.250	1.150	4.320	3.700	5.5
TB28SST	3/4"	6.420	1.645	2.530	1.400	4.921	4.300	9.0
TB38SST	1"	7.500	1.850	2.975	1.750	5.625	5.000	13.5
TB48SST	1 1/4"	8.484	2.200	3.319	2.200	6.730	5.810	24.0
TB58SST	1 1/2"	10.046	2.813	3.854	2.450	7.938	7.125	45.0
TB68SST	2"	12.129	3.820	4.810	2.900	9.797	9.125	88.0



Rigid and Intermediate Metal Conduit and Fittings

Withstand corrosive environments and meet stringent sanitary requirements.

Stainless Steel Conduit

For corrosion-resistant electrical conduit systems, stainless steel offers value and performance that's hard to match, combining high corrosion, chemical and temperature resistance with strength, durability, ease of installation and low maintenance. Compared to standard galvanized steel conduit in corrosive environments, Type 304 stainless steel offers up to five times the lifespan, while Type 316 offers up to eight times the lifespan. Because it is very easy to clean and its surface has no pores or cracks to harbor bacteria and other impurities, stainless steel also provides one of the most hygienic surfaces.

- Available in both Type 304 and marine-grade Type 316 stainless steel
- Features standard NPT threads for easy installation
- Each 10-ft. length of conduit ships with one Type 316 stainless steel coupling included
- Couplings also sold separately
- Exceeds requirements for washdown applications
- Food- and potable water-safe
- Satisfies plant-cleanliness mandates from HACCP, FDA and various state agencies
- Meets ASTM A-321/SA-312 Standards
- UL®/cUL Listed

Typical Applications

- Petrochemical refining/processing
- Water and wastewater treatment
- Food and beverage processing
- Marine and coastal facilities
- Pharmaceutical manufacturing
- Pulp and paper processing
- Other applications in corrosive environments or with strict hygiene requirements



Stainless Steel Rigid Conduit

CAT. NO.	TRADE SIZE (IN.)	WEIGHT (LBS./FT.)	STD. PKG. QTY.	UPC NUMBER
Type 304 Stainless Steel Conduit with Coupling				
COND1/2SS	½	0.82	1,500 ft.	786209-99311
COND3/4SS	¾	1.09	1,000 ft.	786209-99312
COND1SS	1	1.61	700 ft.	786209-99313
COND11/2SS	1½	2.63	300 ft.	786209-99314
COND2SS	2	3.50	200 ft.	786209-99315
COND21/2SS	2½	5.59	120 ft.	786209-99316
COND3SS	3	7.27	90 ft.	786209-99317
COND4SS	4	10.08	40 ft.	786209-99318

CAT. NO.	TRADE SIZE (IN.)	WEIGHT (LBS./EA.)	STD. PKG. QTY.	UPC NUMBER
Type 316 Stainless Steel Conduit with Coupling				
COND1/2SST	½	0.82	1,500 ft.	786209-99319
COND3/4SST	¾	1.09	1,000 ft.	786209-99320
COND1SST	1	1.61	700 ft.	786209-99321
COND11/2SST	1½	2.63	300 ft.	786209-99322
COND2SST	2	3.50	200 ft.	786209-99323
COND21/2SST	2½	5.59	120 ft.	786209-99324
COND3SST	3	7.27	90 ft.	786209-99325
COND4SST	4	10.08	40 ft.	786209-99326

Note: Conduit sold in 10-ft. lengths. Each 10-ft. length ships with one coupling.

Stainless Steel Couplings

CAT. NO.	TRADE SIZE (IN.)	WEIGHT (LBS./EA.)	STD. PKG. QTY.	UPC NUMBER
Type 316 Stainless Steel Couplings				
CPL1/2SST	½	0.17	100	786209-99404
CPL3/4SST	¾	0.29	50	786209-99405
CPL1SST	1	0.34	30	786209-99406
CPL11/2SST	1½	0.61	25	786209-99407
CPL2SST	2	0.90	20	786209-99408
CPL21/2SST	2½	1.87	24	786209-99409
CPL3SST	3	1.93	16	786209-99410
CPL4SST	4	3.97	10	786209-99411

Rigid and Intermediate Metal Conduit and Fittings

UL® Listed raintight and CSA Certified watertight and dusttight.

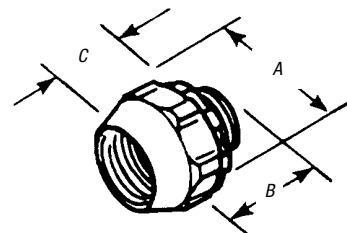
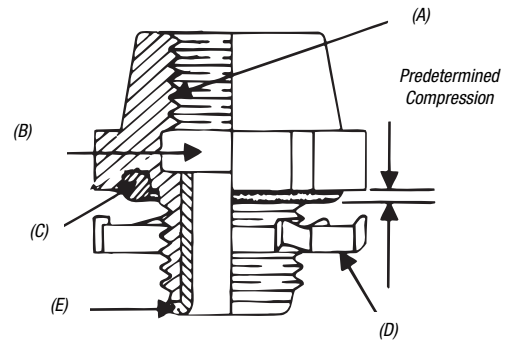
T&B Bullet® Hub Connectors†

Application

- To connect threaded metal conduit (ferrous rigid/non-ferrous rigid/PVC coated/or intermediate metal) to a threadless opening in a box or enclosure exposed to continuous or intermittent moisture

Features

- Rugged Type 316 stainless steel construction
- Tapered internal threads for water-tight/dust-tight union (A)
- Threads relieved to prevent bottoming of conduit, ensuring sound assembly (B)
- Recessed sealing ring at box end; sealing ring captivated (C)
- Stainless steel locknuts provide high-quality ground continuity; extended reach of locknut permits clamping on thin boxes and enclosures (D)
- Insulated throat, insulates conductors, prevents abrasion and thinning of conductor insulation, reduces wire pull effort (E)
- Suitable for hazardous location use per following:
 - Class I Division 2, Class II Division 1 & 2, Class III Division 1 & 2 per NEC 501-4 (b); 502-4 (a) and 503-3 (a)
 - Class II Groups E, F, G, & Class III locations per CEC 18-202; 18-252; 18-302; 18-352



Standard Material

Body Type 316 stainless steel
Locknut Type 316 stainless steel

Listing/Compliances

UL® (File No: E-23018)
CSA (LR-637, LR-23086)
UL514B
CSA C22.2 No. 18
NFPA 70
NEMA FB-1
JIC EGP1; JIC EMP 1
Federal Specification A-A-50553
Federal Standard H-28 (Threads)



Spacing Chart for Bullet® Hubs

CENTER-TO-CENTER SPACING (IN.) CONDUIT SIZES										MIN. SPACE FROM CENTER OF BULLET® HUB TO WALL OF BOX (IN.)	MIN. KO DIAMETERS (IN.)	
½	¾	1	1¼	1½	2	2½	3	3½	4			
½	1/16	1/8	1/4	2/8	2/8	2/8	2/8	3/8	3/8	3/8	¾	¾
¾	—	1/8	1/4	2/8	2/8	2/8	3	3/8	3/8	4/8	¾	1
1	—	—	2	2/8	2/8	2/8	3/8	3/8	3/8	4/8	1	1
1¼	—	—	—	2 1/16	2 1/8	3/8	3/8	4	4/8	4/8	1	1
1½	—	—	—	—	3/8	3/8	3/8	4	4/8	4/8	1	2
2	—	—	—	—	—	3/8	4	4/8	4/8	5	1	2 1/2

CAT. NO.	HUB SIZE	DIMENSIONS (IN.)			MAX. WALL THICKNESS (IN.)
		A	B	C	
370SST	½"	1 1/8	1 1/4	¾	5/16
371SST	¾"	1 1/8	1 1/4	¾	5/16
372SST	1"	2 3/32	1 3/8	7/8	5/16
373SST	1 1/8"	2 1/16	1 5/8	1	5/16
374SST	1 1/2"	3 3/32	1 5/8	1	5/16
375SST	2"	3 3/8	1 5/8	1	¾

* Suitable for hazardous locations use in Class I, Div. 2; Class II, Div. 2; Class III, Div. 1 and 2 where general purpose equipment is specifically permitted per NEC Section 500-2(a).

† UL® Listed raintight and CSA Certified watertight and dusttight — UL File No. E-23018, CSA File No. 2284

Rigid and Intermediate Metal Conduit and Fittings

Designed for unequalled performance.

T&B® Grounding Hub

Never before has a single hub fit like this one. The innovative engineering of the T&B® Grounding Hub will raise your performance expectations for threaded hubs. Look for the distinctive blue color to ensure the quality of a Thomas & Betts fitting.

- 1 Sealing Ring and Groove with innovative profile outperforms standard O-ring design. Sealing ring is captivated in place before installation and resists buckling or slipping during installation. The seal groove is designed for optimum compression of the sealing ring. The sealing ring is designed to provide a complete 360° seal, even when the conduit is not perpendicular with the enclosure. (See Figure 1)
- 2 Locknut Design with peripheral slots and a hexagonal/angled spline spaced every 30° enables easy application of torque with wrench or hammer and screwdriver. (See Figures 2 & 3)
- 3 Sharper and Deeper Teeth on locknut and body designed for a more penetrating bite for improved bonding to the enclosure.
- 4 Hexagonal/Splined Body Design for fast, easy installation with wrench or hammer and screwdriver.
- 5 Precision Machined Tapered Threads designed to create watertight union.
- 6 Insulated Throat molded from 105° C rated thermoplastic with a flammability rating of UL94-V0.

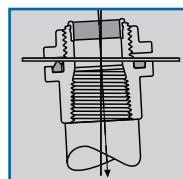
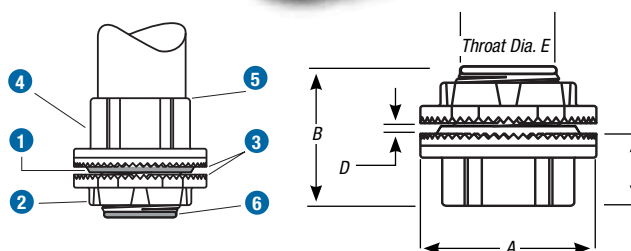


Fig. 1

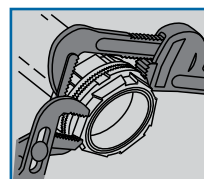


Fig. 2

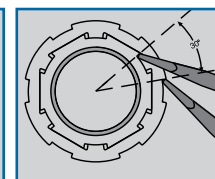


Fig. 3



CAT. NO.	TRADE SIZE	A	B	C	D	E
		DIA.			MAX. PANEL THICKNESS	THROAT DIA.
H050GRSST	1/2"	17/16	1 1/16	7/8	3/16	19/32
H075GRSST	3/4"	1 1/16	1 19/32	29/32	3/16	25/32
H100GRSST	1"	2	1 13/16	1 1/16	1/4	1
H125GRSST	1 1/4"	2 3/8	1 1/8	1 1/16	1/4	1 5/16
H150GRSST	1 1/2"	2 3/4	1 1/8	1 1/16	1/4	1 17/32
H200GRSST	2"	3 1/4	1 13/16	1 5/32	1/4	1 31/32

Hub and Locknut: Type 316 Stainless Steel

Insulating Throat: Thermoplastic temp. rating of 105° C

Flammability rating of UL94-V0

Sealing Ring: Nitrile (BUNA "N")

Meets NEMA sealing requirements for NEMA 3R, 4 and 13 enclosures

UL® Listed and CSA Certified; CSA Certified for hazardous locations Class II Groups E, F, G, Class III (NEC 501.10B)

UL® File No. E-23018, CSA File No. 4484

T&B® Grounding Hub Centerline Spacing Chart

CONDUIT TRADE SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
1/2"	1 1/16	—	—	—	—	—
3/4"	1 49/64	1 25/32	—	—	—	—
1"	1 27/32	1 61/64	2 1/8	—	—	—
1 1/4"	2 1/32	2 9/64	2 5/16	2 1/2	—	—
1 1/2"	2 7/32	2 21/64	2 1/2	2 11/16	2 7/8	—
2"	2 19/32	2 37/64	2 3/4	2 13/16	3 1/8	3 3/8
Nearest Obstruction to Center of Hub	2 7/32	61/64	1 1/8	1 1/16	1 1/2	1 3/4

Rigid and Intermediate Metal Conduit and Fittings

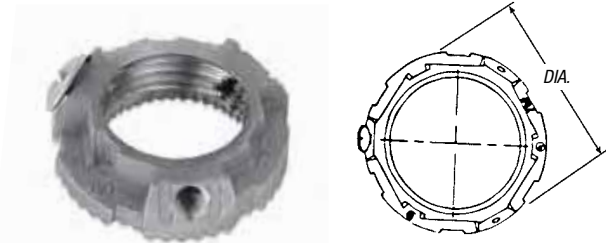
T&B® Grounding and Bonding Locknut

CAT. NO.	TRADE SIZE	DIA.	HEIGHT	GROUND SCREW	MAX. CONDUCTOR SIZE
L050GR-SST	½"	1½"	1 ³ / ₃₂ "	#10-32 x ¼"	#10
L075GR-SST	¾"	1 ¹¹ / ₁₆ "	1 ³ / ₃₂ "	#10-32 x ¼"	#10
L100GR-SST	1"	2"	1 ³ / ₃₂ "	#10-32 x ¼"	#10
L125GR-SST	1¼"	2 ³ / ₈ "	1 ³ / ₃₂ "	¼-20 x ¼"	#10
L150GR-SST	1½"	2¼"	1 ³ / ₃₂ "	¼-20 x ⅝"	#8
L200GR-SST	2"	3¼"	1 ³ / ₃₂ "	¼-20 x ⅝"	#8

Material – Type 316 Stainless Steel

UL® File No. E-3060

CSA File No. 4484



Grounding Locknut for Hubs

Makes conduit connections tight and resistant to vibration.

Threaded ERICKSON® Three-Piece Coupling

With an ERICKSON® coupling, a conduit run may be completed when neither conduit can be turned. A conduit run may also be broken without taking down the whole run.

Application

- To couple and effectively bond threaded ends of rigid metal conduit/intermediate metal conduit where neither length of conduit can be rotated

Features

- Type 316 stainless steel construction
- Free fitting threads ensure easy assembly
- Permits conduit coupling without rotating either conduit
- Provides rigid in-line coupling with high-quality grounding; will not loosen under vibration
- Suitable for concrete-tight applications

Standard Material

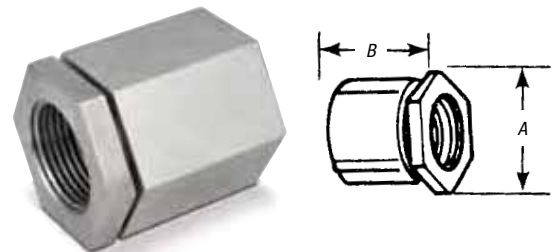
Bushing & Case Type 316 stainless steel

Ring Type 316 stainless steel

Range

½" through 2" conduit

All straight pipe threads (NPS)



676SST

Listings/Compliances

UL® 514B

CSA C22.2 No. 18

NEMA FB1

NFPA 70-1999 (ANSI)

Federal Specification A-A-50553

Federal Standard H-28 (Threads)

Raintight



CAT. NO.	SIZE	DIMENSIONS (IN.)	
		A	B
675SST	½"	1 ¹⁵ / ₃₂ "	1¼"
676SST	¾"	1 ¹ / ₁₆ "	1 ¹³ / ₃₂ "
677SST	1"	1 ²⁹ / ₃₂ "	1 ⁵ / ₈ "
678SST	1¼"	2 ³ / ₈ "	1 ¹³ / ₁₆ "
679SST	1½"	2 ⁵ / ₈ "	1 ³¹ / ₃₂ "
680BSST	2"	3 ³ / ₃₂ "	2 ¹ / ₃₂ "

UL® Listed and CSA Certified concrete-tight

UL® File No. E-23018

CSA File No. 2884

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Thomas & Betts

Rigid and Intermediate Metal Conduit and Fittings

Support and securely fasten rigid, IMC and EMT Conduit.

Pipe Straps

- Type 303 stainless steel
- Higher degree of corrosion resistance than traditional zinc-plated or hot-dipped galvanized straps
- One- and two-hole straps for EMT sizes ½" through 2"
- One- and two-hole straps for rigid and IMC sizes ½" through 4"



CAT. NO.	TRADE SIZE	WT. PER 100	HOLE DIA.	STD. PKG.
One-Hole EMT Straps				
TS101-SS	½"	2.21	¼"	25
TS102-SS	¾"	2.49	¼"	25
TS103-SS	1"	3.31	¼"	25
TS104-SS	1¼"	3.64	11/16"	10
TS105-SS	1½"	3.87	11/16"	5
TS106-SS	2"	4.03	11/16"	5
One-Hole Rigid/IMC Straps				
HS100-SS	¾"	2.00	9/32"	20
HS101-SS	½"	2.21	9/32"	20
HS102-SS	¾"	2.49	9/32"	20
HS103-SS	1"	3.48	9/32"	20
HS104-SS	1¼"	3.76	11/32"	10
HS105-SS	1½"	18.22	13/32"	10
HS106-SS	2"	19.69	13/32"	5
HS107-SS	2½"	67.21	15/32"	5
HS108-SS	3"	76.45	17/32"	5
HS110-SS	4"	80.18	17/32"	5

CAT. NO.	TRADE SIZE	WT. PER 100	HOLE DIA.	STD. PKG.
Two-Hole EMT Straps				
TS901-SS	½"	2.21	¼"	25
TS902-SS	¾"	3.31	¼"	25
TS903-SS	1"	3.87	¼"	25
TS904-SS	1¼"	7.54	11/16"	10
TS905-SS	1½"	12.21	11/16"	5
TS906-SS	2"	18.23	11/16"	5
Two-Hole Rigid/IMC Straps				
HS901-SS	½"	2.49	9/32"	20
HS902-SS	¾"	3.64	9/32"	20
HS903-SS	1"	4.15	9/32"	20
HS904-SS	1¼"	8.17	11/32"	10
HS905-SS	1½"	17.50	13/32"	10
HS906-SS	2"	21.37	13/32"	5
HS907-SS	2½"	21.54	15/32"	5
HS908-SS	3"	25.72	17/32"	5
HS909-SS	3½"	27.27	17/32"	5
HS910-SS	4"	31.70	17/32"	5

Device Boxes and Covers

FS/FD Device Boxes

Application

- Industrial grade FS/FD device boxes and raintight covers protect wiring devices, switches, electronic components, and terminal blocks in dry, damp and wet locations
- Spacious, accessible wiring chamber provides a convenient location to maintain or change a system, pull conductors and make splices
- Junction for branch conduits

Coming Soon!



FD2SST



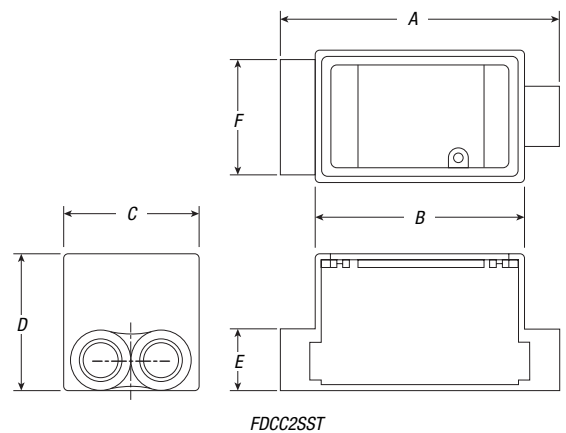
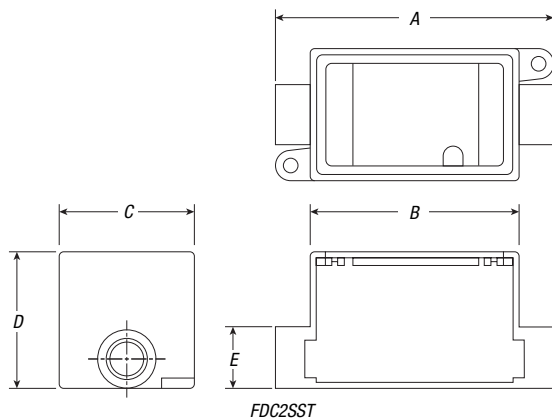
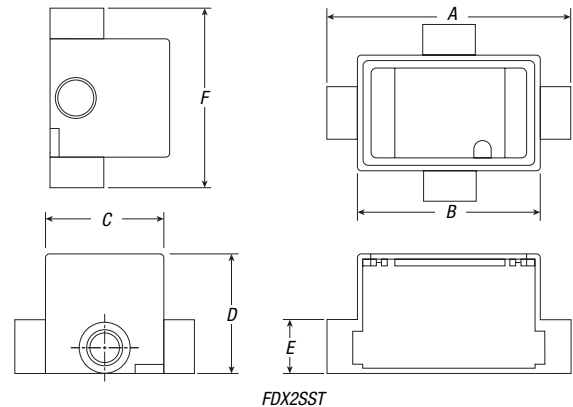
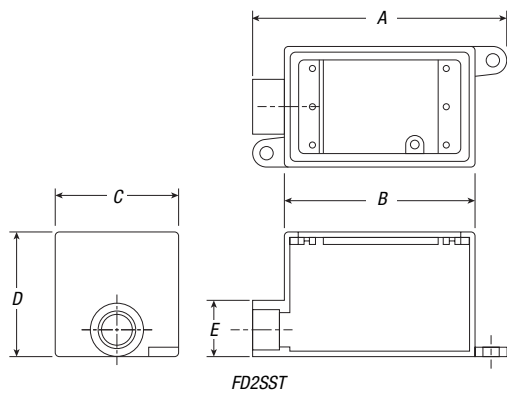
FDC2SST



FDX2SST



FDCC2SST



Single-Gang Boxes Raintight*

CAT. NO.	HUB SIZE	DIMENSIONS (IN.)						
		A	B	C	D	E	F	
FD2SST	Deep, 1-Hole Box, Dead End	2"	6.188	4.625	2.937	2.938	1.313	—
FDC2SST	Deep, 2-Hole Box, Through-Feed	2"	6.188	4.625	2.937	2.938	1.313	—
FDX2SST	Deep, 4-Hole Box, Through-Feed	2"	6.188	4.625	2.937	2.938	1.313	4.50
FDCC2SST	Standard, 3-Hole Box, Through-Feed	2"	6.188	4.625	2.937	2.938	1.313	—

* Raintight when used with appropriate T&B covers.

www.tnb.com

United States
Tel: 901.252.8000
800.816.7809
Fax: 901.252.1354

Technical Services
Tel: 888.862.3289

Thomas & Betts

Device Boxes and Covers

FS/FD Single-Gang Covers



DC-SST



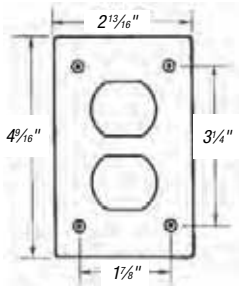
SSC-SST



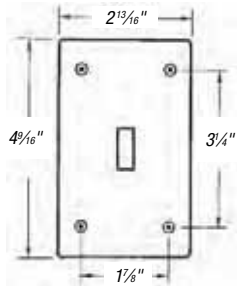
BC-SST



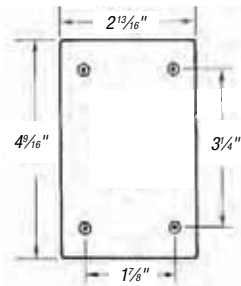
FS-G



DC-SST



SSC-SST



BC-SST

CAT. NO.	DESCRIPTION	UNIT QTY.	STD. PKG.	WT. LBS. PER 100
DC-SST	Duplex Receptacle Cover, Box Mount	20	100	11
SSC-SST	Switch Cover, Box Mount	20	100	14
BC-SST	Blank Cover, Box Mount	20	100	12
FS-GKV	Composition Gasket	—	100	2

Liquidtight Flexible Conduit Fittings

T&B makes liquidtight fittings for demanding situations.



Liquidtight Flexible Conduit Fittings

Gland deflects water away from connector and prevents pooling of moisture.

Double Beveled Sealing Ring is designed with five unique sealing mechanisms and cannot be installed backwards. Manufactured of high-temperature rated thermoplastic to demanding specifications. Look for the unique T&B blue color ensuring the highest quality fitting.

Safe Edge® Ground Cone provides superior bonding, stronger pullout, easy threading and conductor protection.

Heat-Curled Insulator provides excellent wire protection and easier glide of conductors through and into the fitting. In addition, the heat-curled finish gives the insulator more strength than glue-in insulators. Look for the unique T&B blue color ensuring the highest quality fitting.

Liquidtight Sealing Gasket locks resilient rubber sealing material inside a stainless steel retaining ring to create a seal that's tight against oil, fumes and moisture at a knockout opening.

Tempered Cast Locknut with Teeth provides superior strength and electrical bonding and can be installed in the enclosure without using a wrench.



Liquidtight Flexible Conduit Fittings

Application

- Used where flexible metal raceway is installed in outdoor or indoor locations exposed to continuous or intermittent moisture
- To positively bond conduit to box or enclosure

Features

- Ability to install quickly with low torque effort
- Ground cone design offers the following advantages:
 - (1) Compresses metallic convolutions; provides high-quality ground contact with low impedance and high raceway holding power
 - (2) Single helical thread on ground cone is easy to install without cross thread; accepts variations in raceway diameters and convolution pitch
 - (3) Rolled-over edge protects conductors

Sealing Ring Design Features

- (1) Grips and seals at leading and trailing edge — will not abrade raceway jacket
 - (2) Provided with grooves on inside diameter for anti-sleeving
 - (3) Shoulders on both ends for extra sealing
 - (4) Symmetrical shape assures foolproof assembly
- Can be disconnected and reused.
 - Watertight/oil tight installation at box or enclosure termination is assured by external taper thread hub on 5331 series and use of sealing gasket 5262 series
 - Suitable for use in Class I Division 2, Class II Division 1 and 2 and Class III Division 1 and 2 Hazardous Locations per NEC® Section 500
 - Suitable as a grounding means per NEC® Section 351-9 (up to 1¼" trade size only)
 - ½" and 1¼" sizes laboratory tested to carry ground fault current of up to 1,000 amps RMS with duration of fault current 3 cycles
 - Conforms with JIC requirements
 - Available with imperial, ISO and PG threaded hub

Standard Material

Type 304 stainless steel

Sealing Ring and Insulator: All thermoplastic

Sealing Gasket: Type 316 stainless steel and Santoprene® thermoplastic rubber

Standard Finish — Ground Cone

Electro Zinc Plated with Chromate Coating

Range

5331SST Series ¾" through 2" conduit

5331SSTHT Series ¾" through 2" conduit

** All hubs provided with taper pipe threads (NPT)*

Listings/Compliances

UL® UL File No. E-23018

CSA LR-2884, LR-4484, LR-9555

UL 514B

CSA C22.2 No. 18

NEMA FB-1

NFPA 70-1999 (ANSI)

JIC EGP1

JIC EMP1

Federal Specification A-A-50552

Federal Standard H-28 (Threads)

Santoprene is a registered trademark of Advanced Elastomer Systems.

NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.



Liquidtight Flexible Conduit Fittings

The strength of steel — with superior corrosion resistance!

Stainless Steel Liquidtight Conduit Fittings

Until now, there's been no ideal conduit fitting solution for use in heavily corrosive environments. Traditional metallic fittings corrode and require frequent replacement. Non-metallic fittings offer less strength, lower UV-resistance and don't stand up well in extreme temperatures. T&B® Stainless Steel Liquidtight Conduit Connectors are constructed of Type 304 stainless steel to resist corrosion while offering high strength, high UV resistance and high endurance. Choose among a full range of fittings in straight, 45° and 90° angled configurations for 3/8" to 2" conduit sizes. Look for the distinctive blue insulator and sealing ring for assurance of T&B quality.*

- Ideal for industrial MRO and OEM applications in food and beverage, pharmaceutical, petrochemical, wastewater, salt water and other corrosive environments
- Connects metallic-cored liquidtight conduit to a box or enclosure
- Type 304 stainless steel body and gland nut resist corrosion far better than other metallic fittings
- Stronger and more UV-resistant than non-metallic fittings
- Ground cones are available in 1 1/4", 1 1/2" and 2" sizes and are brass/nickel-plated
- Available in straight, 45° and 90° angled configurations to fit conduit from 3/8" to 2"
- UL® Listed Ratings: 3, 3R, 4, 4X
- Standard version (SST Series) rated for temperatures up to 105° C (221° F)
- Now available in a new high-temperature version (SSTHT Series) for applications up to 150° C (302° F)



Stainless Steel Liquidtight Conduit Connectors — 105° C Max.



CAT. NO.	CONDUIT SIZE (IN.)	DIMENSIONS (IN.)			STD. PKG. QTY.
		A	B	C	
Straight					
5331SST	3/8	1.36	1.02	—	25
5332SST	1/2	1.36	1.18	—	25
5333SST	3/4	1.39	1.37	—	25
5334SST	1	1.56	1.77	—	5
5335SST	1 1/4	1.72	2.12	—	20
5336SST	1 1/2	2.02	2.48	—	5
5337SST	2	2.34	3.04	—	2
45° Angled					
5341SST	3/8	1.84	1.02	1.43	25
5342SST	1/2	1.62	1.18	2.04	25
5343SST	3/4	2.32	1.37	1.93	10
5344SST	1	2.86	1.77	2.37	5
5345SST	1 1/4	3.33	2.12	2.80	5
5346SST	1 1/2	3.94	2.48	3.39	2
5347SST	2	4.73	3.04	4.23	1
90° Angled					
5351SST	3/8	1.95	1.02	1.84	25
5352SST	1/2	2.12	1.18	2.07	25
5353SST	3/4	2.47	1.37	2.44	10
5354SST	1	2.98	1.77	2.90	5
5355SST	1 1/4	3.53	2.12	3.36	5
5356SST	1 1/2	4.16	2.48	3.88	2
5357SST	2	8.60	3.04	4.69	1

Blue sealing gasket and insulator.
Blue is a trademark color of Thomas & Betts.

Stainless Steel High-Temperature Liquidtight Conduit Connectors — 150° C Max.



CAT. NO.	CONDUIT SIZE (IN.)	DIMENSIONS (IN.)			STD. PKG. QTY.
		A	B	C	
Straight					
5331SSTHT	3/8	1.36	1.02	—	25
5332SSTHT	1/2	1.36	1.18	—	25
5333SSTHT	3/4	1.39	1.37	—	25
5334SSTHT	1	1.56	1.77	—	5
5335SSTHT	1 1/4	1.72	2.12	—	20
5336SSTHT	1 1/2	2.02	2.48	—	5
5337SSTHT	2	2.34	3.04	—	2
45° Angled					
5341SSTHT	3/8	1.84	1.02	1.43	25
5342SSTHT	1/2	1.62	1.18	2.04	25
5343SSTHT	3/4	2.32	1.37	1.93	10
5344SSTHT	1	2.86	1.77	2.37	5
5345SSTHT	1 1/4	3.33	2.12	2.80	5
5346SSTHT	1 1/2	3.94	2.48	3.39	2
5347SSTHT	2	4.73	3.04	4.23	1
90° Angled					
5351SSTHT	3/8	1.95	1.02	1.84	25
5352SSTHT	1/2	2.12	1.18	2.07	25
5353SSTHT	3/4	2.47	1.37	2.44	10
5354SSTHT	1	2.98	1.77	2.90	5
5355SSTHT	1 1/4	3.53	2.12	3.36	5
5356SSTHT	1 1/2	4.16	2.48	3.88	2
5357SSTHT	2	8.60	3.04	4.69	1

Stainless Steel High-Temperature Fittings have a black high temperature-resistant sealing gasket and insulator.

Liquidtight Flexible Conduit Fittings

Sealing material resists oil, coolants and hydraulic fluids as well as water!

Liquidtight Sealing Gasket

Application

- When used with an externally threaded connector, provides a tight seal against oil, fumes or moisture at the knockout opening

Features

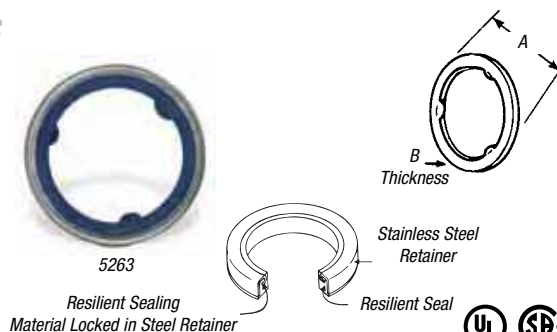
- Design locks resilient sealing material in steel
- Steel retainer protects seal from extruding out under torque and limits compression to an optimum predetermined value; provides high quality seal
- Resilient material flows and seals rough surfaces
- NEMA 3R, 4, 6 and 13

Standard Material

Retainer Type 316 stainless steel
Sealing Material Santoprene® thermoplastic rubber

Range

¼" to 4" Hub Size



CAT. NO.	CONDUIT SIZE	DIMENSIONS (IN.)		STD. PKG.QTY.
		A	B	
5299**	¼"	.80	.11	50
5261**	¾"	.95	.11	50
5262	½"	1.16	.18	50
5263	¾"	1.49	.19	25
5264	1"	1.75	.19	25
5265	1¼"	2.15	.22	5
5266	1½"	2.42	.23	5
5267	2"	2.92	.23	5
5268	2½"	3.44	.23	5
5269	3"	4.08	.23	5
5270	4"	5.29	.31	5

** UL® Not applicable

UL® File No. E 13938

CSA File No. 2884

Santoprene® is a registered trademark of Advanced Elastomer Systems.

Effectively bonds externally threaded conduit or connector to a threadless opening in a box or enclosure.

Locknut

Features

- Tightens without deformation
- Locknuts specially designed to:
 - Provide extended reach for clamping on thin boxes and enclosures
 - Cut through protective coating on box and enclosure, thereby ensuring ground continuity
 - Permit tightening from outside
 - Prevent loosening under vibration



Standard Material

Type 304 stainless steel

Range

½" through 2" conduit (All threads straight pipe [NPS])

Listings/Compliances

UL® (UL File No. E-23018) NEMA FB1
CSA (LR-2884, LR-4484) NFPA 70
UL514B Federal Specification A-A-50553
CSA C22.2 No. 18 Federal Standard H-28 (Threads)

CAT. NO.	CONDUIT SIZE	DIMENSIONS (IN.)	
		A	B
141SST	½"	1¼	¾
142SST	¾"	1½	¾
143SST	1"	1¾	1¼
144SST	1¼"	2½	1¾
145SST	1½"	3	1¾
146SST	2"	3½	1¾

Liquidtight Flexible Conduit Fittings

Stainless steel construction for unbeatable strength and corrosion resistance!

Fittings for Liquidtight Flexible Non-Metallic Conduit Type A

Application

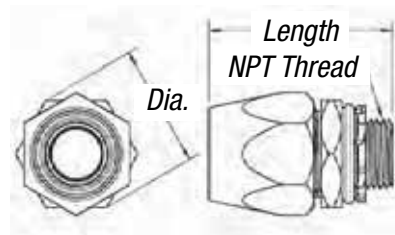
- To provide a liquidtight, dust-tight connection between flexible, non-metallic conduit and a box or an enclosure

Features

- Serrated design provides high mechanical pull-out strength
- Unique component parts (body/gland) design ensures positive seal between conduit and connector
- Tapered thread hub and furnished Neoprene sealing O-ring provide a liquidtight, dust-tight seal to a box or enclosure
- Smooth insulated body throughout for maximum dielectric strength
- Captive O-ring and reduced number of parts save installation time
- Supplied with Series 5262 Sealing Gasket
- UL® Listed and CSA Certified for use with Type A conduit only

Standard Material

Body and Gland	Type 304 stainless steel
O-Ring	Neoprene
Sealing Gasket	Type 316 stainless steel and Santoprene® thermoplastic rubber
Locknut	Type 304 stainless steel



Standard Finish

Body, Gland, O-Ring and Locknut Polished

Range

Conduit Size ½" to 1¼"
Hub Size ½" to 1¼" NPT

Santoprene is a registered trademark of Advanced Elastomer Systems.



CAT. NO.	CONDUIT SIZE	DIA. (IN.)	LENGTH (IN.)
6302SST	½"	1.43	2.10
6303SST	¾"	1.72	2.55
6304SST	1"	2.00	2.60
6305SST	1¼"	2.88	3.10

UL® File No. E-23018

Jacketed Metal-Clad and Teck Cable Fittings

Jacketed Metal-Clad Cable and Teck Cable

Metal-Clad Cable (Type MC) Ref. NEC® Article 330*

"Metal-Clad Cable Type MC is a factory assembly of one or more conductors, each individually insulated and enclosed in a metallic sheath of interlocking tape, or a smooth or corrugated tube."

Metal-Clad Cable Type MC is rated for use up to 5,000 volts. The National Electrical Code® permits use of metallic sheath as an equipment grounding conductor.

Metal-clad cables are available with a variety of phase conductor insulations such as crosslinked polyethylene, and silicone rubber ethylene propylene, depending on rated temperature of conductors and working potential. Metallic sheath can be of galvanized steel, aluminum, copper or bronze. A special outer covering such as PVC or Neoprene over metallic sheath is usually provided for environmental protection.

Metal-clad cable is not permitted in locations where it could be subject to physical damage. Metal-clad cable can be used exposed, concealed, in cable tray, in any approved raceway, and with minor exceptions in hazardous locations. Type MC cable can also be used for services, feeders, branch circuits, power, lighting, control and signal circuits.

Use of metal-clad cable is permitted in wet locations, or where exposed to destructive corrosive conditions or can be directly buried in earth, concrete or exposed to cinder fills, strong chlorides, caustic alkalis, vapors, chlorine or hydrochloric acids provided the construction of cable, the conductors within the metallic sheath, the metallic sheath and protective cover over metallic sheath comply with requirements enumerated in Sec. 330-3 of the National Electrical Code®.

Bend radius restrictions are dependent on the size of the cable and the type of sheath, i.e., smooth, interlocked armor, corrugated sheath or shielded conductors and varies from 7 times to 15 times cable external diameter.

NEC® Article 330 requires that approved fittings be used for termination. Where single-conductor cables carrying alternating current enter a ferrous metal box or enclosure, procedures described in NEC® Section 300-20 must be followed to reduce effects of heating due to induced currents. These procedures include recommended arrangements of conductors, cutting of slots in metal between individual conductor holes, passing of conductors through insulating walls or use of non-magnetic aluminum sheathed cable and aluminum terminating fittings.

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Please refer to the following for further details and complete information:

1. NEC® Article 334...Metal-Clad Cable (Type MC)
2. UL 4, ANSI C33.9...Safety Standards for Type MC Metal-Clad Cable
3. UL 514B, Safety Standards for Outlet Boxes & Fittings
4. A-A50552...Federal Specification. Fittings for Cable, Power Electrical & Conduit Metal, Flexible
5. NEMA FM-1...Standards Publication. Fittings and Supports for Conduit and Cable Assemblies

Teck Cable

Teck cable derived its name from one of its first users, the Teck-Hughes Gold Mines in Kirkland Lake, Ontario. Teck 90 is CSA Type designation. Trade designation of this cable is Armored Cable.

Teck cables up to 5,000 volts working potential are manufactured in accordance with CSA Standard C22.2 No. 131 and are provided with a bare ground conductor and an optional outer jacket. Depending on phase conductor insulation, the cables are designated as Teck 90 (X-LINK) when insulation is cross-linked polyethylene and Teck 90 (EP) when insulation is ethylene propylene. Both cables are rated for 90° C service (dry locations) and 75° C (wet locations). When Teck cable is suitable for installation down to -40° F, the cables are marked Teck 90 (X-LINK) minus 40 or Teck 90 (EP) minus 40.

Over 5,000 volts working potential Teck cables are manufactured in accordance with IPCEA standards and are certified by CSA. Cables are provided with or without ground wire as required.

Teck cables with outer jacket may be used for exposed or concealed wiring in wet or dry locations, indoors/outdoors and in corrosive environments. Teck cables are suitable for use in ventilated, non-ventilated and ladder-type cable troughs, in ventilated flexible cable ways in both dry and wet locations. Teck cable with outer jacket is suitable for direct earth burial and for Class II Division 2, Class III Division 1 & 2 hazardous locations per Canadian Electric Code.

Some of the features of Teck cable are: flexibility and ease of installation; absence of dead air space within cable increases heat transfer and minimizes condensation; and overall protective covering provides good environmental protection.

Bend radii for permanent training during installation usually varies between 7 times to 12 times the cable diameter depending on cable construction and manufacturer's recommendations. Larger radii bends are required for other conditions.

Section 12-3028 of the Canadian Electric Code requires that the terminating fittings used must provide adequate strain relief to terminal connections and ensure electrical continuity without injury to non-metallic sheath. Continuity is mandatory whether or not the armor is used as a grounding conductor. Except for dry locations free from corrosive atmosphere, the non-metallic jacket is not permitted to be stripped back to a point where armor is exposed after installation.

Where single-conductor cables carrying 200 amps or more enter metal boxes through separate openings, certain precautions are required to prevent overheating of the metal by induction. Use of non-ferrous or non-metallic box connectors, locknuts and bushings and installation of non-magnetic panel inserts is suggested in the code.

Please refer to the following for further details and complete information:

1. CEC Section 12...Wiring Methods
CEC Section 4...Conductors
2. CSA C22.2 No. 131 & 131S (Supplement #1)...Safety Standard for Type Teck Cable
3. CSA C22.2 No. 18...Safety Standards for Outlet Boxes, Conduit Boxes and Fittings
4. UL File E82038 — Volume 1, Section 3, Page 1, Revision 1/31/2007

Please Note: The materials herein, whether relating to the National Electrical Code, the Underwriters Laboratories, Inc. listing, to industry practice or otherwise, are not intended to provide all relevant information required for use and installation of our products. Refer to applicable codes, instructions and industry specifications prior to installation or use.

Jacketed Metal-Clad and Teck Cable Fittings

STAR TECK® Jacketed Metal-Clad Cable Fittings

Overlapping range of sizes, Star Teck® jacketed metal-clad cable fittings are designed to accommodate a broad range of cables, thereby minimizing the possibility of mismatched cables and fittings in the field.

Application

- Provide means for passing armored, metal-clad, jacketed cables through a bulkhead or enclosure in hazardous areas (these fittings are suitable for hazardous areas when used with T&B sealing compound)
- Form a mechanical grip and water and/or oil-resistant termination
- Provide grounding continuity of cable armor

Cable Type

- JMC, MC-HL, Teck

Features

Easy Installation

- Exclusive power-grip. Provides a grip that's high up on the cable — not on the first convolution — so strip length and cutting of cable are not as critical.

Dependable Service

- Stainless steel retaining ring. Withstands corrosive environments. Non-magnetic.

Dependable Grounding

- Power-Grip grounding ring is non-magnetic stainless steel. Provides 360° long-term dependable grounding. It makes immediate contact with the cable.

Watertight

- Tapered bushing. Cone-shaped to provide a secure, tight fit while eliminating cupping or water in vertical installations.

Easy to Install in Tight Spaces

- Low-profile gland nut fits tight spaces. Has grooves for screwdriver installation and flats for a wrench. Durable and reusable with funnel entry for easy cable insertion.

Materials

- Type 316 Stainless Steel

Environment Classification

- Suitable for hazardous locations. Class I Div. 2; Class II Div. 2; Class III. Where explosion-proof or dust-proof fittings are required by code use STAR TECK XP® fittings (STX Series).

- NEMA 4

- Suitable for use in wet locations and concrete tight (steel) applications per UL 514B

- UL® File No. E82038/E38947

- CSA File No. LR638/LR23086

Range

- Available in hub sizes from ½" to 4", and will handle outer jacket diameters from 0.525" to 4.340"

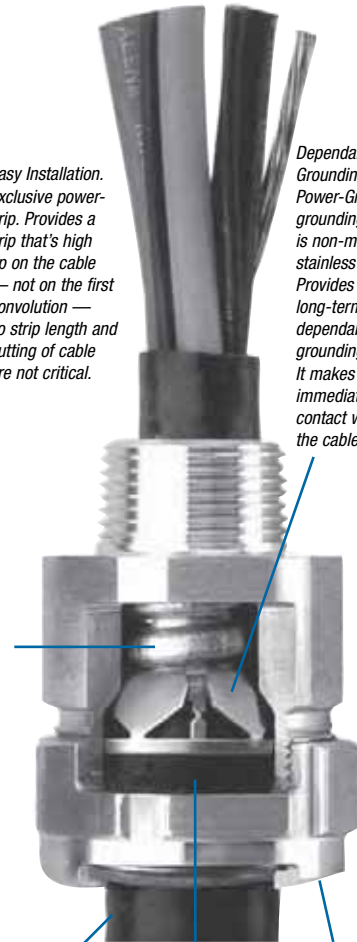
Easy Installation. Exclusive power-grip. Provides a grip that's high up on the cable — not on the first convolution — so strip length and cutting of cable are not critical.

Dependable Grounding. Power-Grip grounding ring is non-magnetic stainless steel. Provides 360° long-term dependable grounding. It makes immediate contact with the cable.

Dependable Service. Stainless steel retaining ring. Withstands corrosive environments. Non-magnetic.

Watertight Tapered Bushing. Cone-shaped to provide a secure, tight fit while eliminating cupping or water in vertical installations.

Easy to Install in tight spaces. Low-profile gland nut fits tight spaces. Has grooves for screwdriver installation, and flats for a wrench. Durable and reusable with funnel entry for easy cable insertion.



Cable Protection Systems — T&B® Stainless Steel Conduit & Fittings

Installing the STAR TECK® Fitting



1. Prepare cable



2. Insert cable



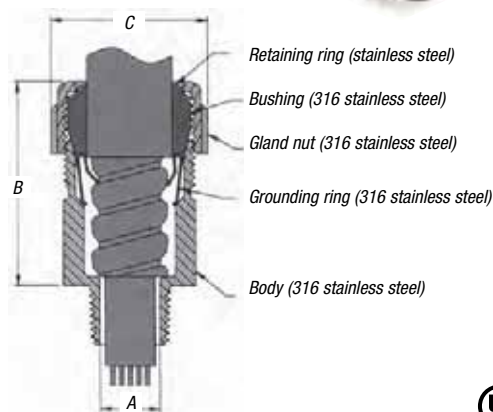
3. Tighten gland nut

Jacketed Metal-Clad and Teck Cable Fittings

Overlapping range of sizes accommodates a broad range of cables!

STAR TECK® Jacketed Metal-Clad Cable Fittings for Ordinary Locations

- Overlapping sizes minimize possibility of mismatched cables and fittings in the field
- Available in hub sizes from ½" to 4", handling outer jacket diameters from 0.525" to 4.340"
- Suitable for hazardous locations (Class 1 Div. 2; Class II Div. 2; Class III)
- Where explosion-proof or dust-proof boxes are required by code, use STAR TECK XP® fittings (STX050-462 Series)



Suggested specifications for metal-clad cable fitting.

1. All metal-clad cable fittings for jacketed interlocked armor cable or continuous corrugated cable shall be approved by a nationally recognized testing laboratory, inspection agency or product evaluation organization.
2. Where corrugated-jacketed metal-clad cable exposed to intermittent or continuous moisture is terminated into a threaded opening, the fitting shall be watertight type furnished with:
 - a. An elastomeric beveled bushing.
 - b. A funnel entry, splined gland nut.
 - c. A non-magnetic stainless steel grounding device with dual grounding action.
 - d. A taper threaded hub.
 - e. A hexagonal body and gland nut as manufactured by Thomas & Betts.
3. Where cable is terminated into a threadless opening, a suitable moisture-resistant elastomeric gasket as manufactured by Thomas & Betts, series 5262, shall be provided between the outside of enclosure and fitting shoulder.
4. With single-conductor cable and/or in corrosive environments, stainless steel fittings such as Thomas & Betts series ST050-464SS shall be installed.

Class I Div 2; Class II Div. 2; Class III. Where explosion-proof or dust-ignition-proof boxes are required by Teck, fitting must be used in conjunction with an approved sealing fitting.

CAT NO.	HUB SIZE NPT	CABLE RANGE OVER JACKET (IN.)		CABLE RANGE OVER ARMOR (IN.)		DIMENSIONS (IN.)		
		MIN.	MAX.	MIN.	MAX.	A	B*	C
ST050-462SS	½	0.525	0.650	0.415	0.570	0.395	2.020	1.224
ST050-464SS	½	0.600	0.760	0.490	0.680	0.485	2.020	1.363
ST050-465SS	½	0.725	0.885	0.615	0.805	0.612	2.133	1.633
ST050-466SS	¾	0.825	0.985	0.715	0.905	0.612	2.133	1.633
ST075-467SS	¾	0.880	1.065	0.770	0.985	0.819	2.450	2.080
ST075-468SS	¾	1.025	1.205	0.915	1.125	0.819	2.450	2.080
ST100-469SS	1	1.187	1.375	1.077	1.295	1.039	2.601	2.230
ST125-470SS	1¼	1.357	1.625	1.240	1.545	1.182	3.282	2.824
ST125-550SS	1¼	1.500	1.625	1.390	1.545	1.370	3.282	2.824
ST125-471SS	1¼	1.600	1.875	1.490	1.795	1.370	3.282	2.824
ST150-472SS	1½	1.700	1.965	1.590	1.885	1.557	3.620	3.260
ST150-473SS	1½	1.900	2.187	1.790	2.107	1.600	3.620	3.260
ST200-551SS	2	1.900	2.187	1.790	2.107	1.715	3.640	3.620
ST200-474SS	2	2.100	2.375	1.990	2.280	1.995	3.640	3.620
ST200-475SS	2	2.300	2.565	2.190	2.485	2.057	3.640	4.020
ST200-476SS	2	2.500	2.750	2.390	2.656	2.057	3.640	4.020
ST250-477SS	2½	2.380	2.640	2.240	2.560	2.230	4.700	4.750
ST250-478SS	2½	2.580	2.840	2.440	2.750	2.430	4.700	4.750
ST300-479SS	3	2.790	3.060	2.640	2.970	2.630	4.700	5.050
ST300-480SS	3	3.000	3.270	2.870	3.190	2.860	4.790	5.480
ST300-481SS	3	3.210	3.480	3.042	3.390	3.032	4.790	5.480
ST350-482SS	3½	3.420	3.690	3.270	3.590	3.260	4.790	5.980
ST350-483SS	3½	3.610	3.870	3.440	3.770	3.430	4.790	5.980
ST400-484SS	4	3.810	4.030	3.600	3.930	3.590	4.840	6.435
ST400-485SS	4	3.965	4.185	3.755	4.065	3.745	4.840	6.435
ST400-486SS	4	4.120	4.340	3.910	4.220	3.900	4.840	6.435

* Approximate dimension before installation.

Tray Cable Fittings

Increase safety for hazardous locations.

Silver Grip® TCF® Series Tray Cord Fittings

Introducing the Silver Grip® Tray Cord Fitting — the safe, yet cost-efficient choice for increased safety when terminating portable cord and tray cable in hazardous locations. Designed for use in Class I, Gas and Vapor environments, the Silver Grip® Tray Cord Fitting provides efficient strain relief for cables entering enclosures and raceways, and for cords used on portable equipment.

- Corrosion-resistant, Type 316 stainless steel construction
- Tapered Neoprene bushing and O-ring seal out moisture and dirt ingress
- Chuck grip provides high mechanical pull-out performance. Exceeds applicable requirements
- Hand-tightens — no tools required

Applications

Tray Cable: Complies with IEC requirements for Class I, Zone 2 locations when used with enclosures containing no arcing or sparking devices. For enclosures with arcing or sparking devices, TCF® fittings must be used in combination with a certified Class I hazardous location sealing fitting.

Portable Cord: Complies with IEC requirements for Class I, Zone 1 locations when used with enclosures containing no arcing or sparking devices. For enclosures with arcing or sparking devices, TCF® fittings must be used in combination with a certified Class I hazardous location sealing fitting.

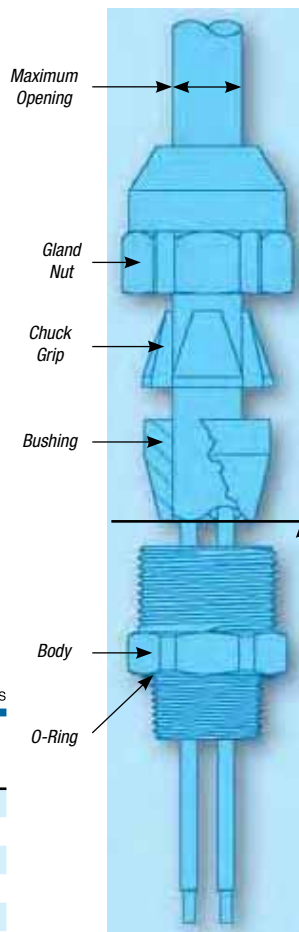
Note: Tray cable is not suitable for use in Zone 1 locations. Portable cord can be used in Zone 1 applications only when installed on portable equipment.

- CSA File Number LR4484
- Class 4418-03 Fittings for Hazardous Locations
- Class 4418-03 Fittings for Hazardous Locations — Certified to U.S. Standards
- Class I, Zone 1, AEx e II

Silver Grip® TCF® Series Tray Cord Fittings



CAT. NO.	HUB SIZE NPT	THROAT DIA. (IN.)	MIN. CABLE DIA. (IN.)	MAX. OPENING (IN.)	STD. PKG. QTY.
TCF050-27SS6	½	.330	.150	.270	25
TCF050-40SS6	½	.540	.250	.400	25
TCF050-54SS6	½	.540	.400	.540	25
TCF050-67SS6	½	.540	.540	.670	10
TCF050-78SS6	½	.540	.660	.780	10
TCF075-40SS6	¾	.540	.250	.400	15
TCF075-54SS6	¾	.540	.400	.540	15
TCF075-67SS6	¾	.780	.540	.670	10
TCF075-78SS6	¾	.780	.660	.780	10
TCF075-88SS6	¾	.765	.770	.880	10
TCF100-78SS6	1	.980	.660	.780	10
TCF100-88SS6	1	.980	.770	.880	10
TCF100-100SS6	1	.980	.870	1.000	10



* When cord will not fit through body, strip cord jacket and trim fillers if required. Insert cable, ensuring the outer jacket reaches the end of the bushing as shown. Tighten gland nut onto body.

Cord and Cable Fittings

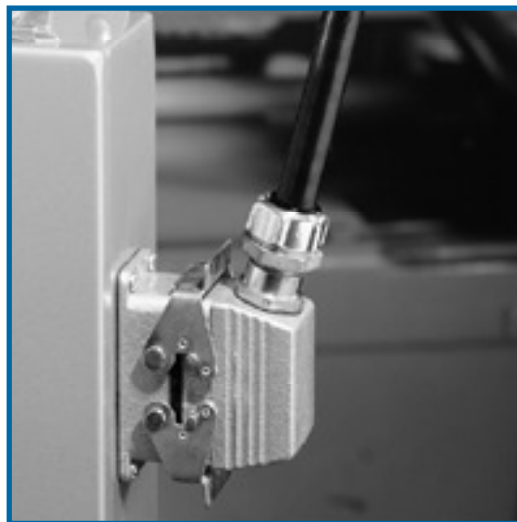
Whatever the application. Whatever the size. Thomas & Betts is your connection to tough, versatile cord and cable fittings.

Thomas & Betts offers a complete line of rugged, reliable cord and cable fittings. All fittings are produced to the highest standards, combining innovative design and precision manufacturing methods to provide the products you need for your specific applications. Combining proven performance, installation advantages and availability of ranges, T&B is also your connection to lower installed costs for the life of your cord and cable requirements.

Use this guide to help you specify the fitting you need for your cord and cable requirements.

Cord and Cable Requirements

CORD AND CABLE TYPE	T&B FITTING
S, SO, SV, ST, STD, SJ, SJO, SJT, SJTO, SVO	Ranger® 2920SST Series
S, SO, SV, ST, STD, SJ, SJO, SJT, SJTO, SVO	Wire-Mesh Grips WMG-PC Series for Portable Cord



Considerations for Selection

- Selection of the proper device or fitting involves consideration of the type of cable to be installed and the environment that will surround the cable installation
- A proper matching of the cable and its fitting is necessary to prevent physical damage to the cable when installed
- NEMA Applications: Fittings used in a trade-size knockout requiring a NEMA 3R, 4, 6 or 13 listing require a 5262 Series sealing ring

Cord and Cable Descriptions

Type SJ, tradename is Junior Hard Service Cord. The outer covering is Thermoset and it is a pendant or portable cord used in damp locations for hard usage.

Type SJO, tradename is Junior Hard Service Cord. The outer covering is oil-resistant Thermoset.

Type SJT, tradename is Junior Hard Service Cord. The outer covering is Thermoplastic.

Type SJTO, tradename is Junior Hard Service Cord. The outer covering is oil-resistant Thermoplastic.

Type SO, tradename is Hard Service Cord. The outer covering is oil-resistant Thermoset and it is a pendant or portable cord used in damp locations for extra hard usage.

Suggested Specifications for Flexible Cord and Cable Fittings

- Flexible cord or cable and associated fittings shall be suitable for conditions of use and location and approved for the purpose by a nationally recognized testing laboratory, inspection agency or product evaluation organization.
- Flexible cord or cable shall be so connected to the device or fitting that tension will not be transmitted to joints or terminal screws. Sufficient slack shall be provided to avoid sharp flexing and straining. Cord or cable shall be installed in such a manner that liquid will tend to run off the surface instead of draining towards the fitting.
- Where flexible cord or cable exposed to intermittent or constant moisture and subjected to mechanical strain is terminated into a threaded or threadless opening, terminating fittings shall be of watertight strain relief type, such as Thomas & Betts series 2920SST. Fittings shall be equipped with a beveled moisture-resistant/oil-resistant synthetic rubber bushing.
- Where space is limited inside the enclosure, a female hub type fitting such as Thomas & Betts series 2631 shall be furnished. A captivated resilient sealing O-ring shall be included to positively protect against damage from overtorquing.



Cord and Cable Fittings

Type 304 stainless construction for your harshest environments!

Ranger® Stainless Steel Liquidtight Cord Connectors

Until now, there's been no ideal solution for liquidtight connections of portable cord to a box or enclosure in corrosive environments. Steel connectors rust, and non-metallic connectors can't withstand high temperatures or ultraviolet exposure.

In response to customer demand, Thomas & Betts has developed the latest addition to its high-performance line of Ranger® Cord Connectors. Made of Type 304 stainless steel, Ranger® Stainless Steel Liquidtight Cord Connectors stand up to highly corrosive environments — such as washdown areas in food and beverage or pharmaceutical processing — as well as high temperatures and UV exposure.

Application

- Provide means for passing a cord cable into an enclosure, through a bulkhead or into a rigid conduit
- Form a mechanical grip and water and/or oil-resistant seal for cord
- Form a non-slip connection or termination for flexible cord

Cord & Cable Type

- SJ, SJE, SJE0, SJO, SJOW, SJ00, SJOOW, SJT, SJTW, SJTO, SJTOW, SJTO0, SJTOOW, SO, SOW, SOO, SOOW, SV, ST, STD, SVD

Features

- Extended range with superior strain relief
- Reduced overall size, fits into tighter spaces
- Gland nut designed to restrict cable bending

Materials

Body, Gland Nut, Grip Type 304 stainless steel
 Bushing Thermoplastic rubber
 Grip Ring Nylon
 O-Ring (supplied) Buna N

Environment Classification

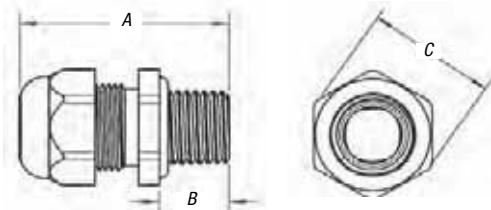
Ordinary locations (wet or dry)
 Temperature Rating -20° C to 105° C (-4° F to 221° F)

Range

Cord Range .125" to .950"
 Hub Size Range ½" to 1"

Listings/Compliances

¼" and ⅜" Sizes UL® Recognized
 ½" through 1" Sizes UL® Listed and CSA Certified for use with portable cord; UL514B liquidtight cord connectors; UL Type 6 and 4X



Stainless Steel Cable Glands — ¼"–⅜" Hub Sizes



CAT. NO.	HUB SIZE (IN.)	CORD DIA. RANGE (IN.)	DIMENSIONS (IN.)			STD. PKG. QTY.
			A	B	C	
2918SST	¼	.118–.256	1.000	.250	.625	25
2919SST	⅜	.157–.315	1.313	.438	.750	25

Stainless Steel Liquidtight Strain-Relief Cord Connectors — ½"–1" Hub Sizes



CAT. NO.	HUB SIZE (IN.)	CORD DIA. RANGE (IN.)	DIMENSIONS (IN.)			STD. PKG. QTY.
			A	B	C	
2920SST	½	.125–.375	1.935	.610	1.125	25
2921SST	½	.310–.560	1.935	.610	1.125	25
2922SST	½	.500–.750	2.003	.610	1.125	25
2930SST	¾	.125–.375	2.063	.630	1.125	10
2931SST	¾	.310–.560	2.063	.630	1.125	10
2932SST	¾	.500–.750	2.063	.630	1.125	10
2940SST	1	.310–.560	2.178	.785	1.500	10
2941SST	1	.500–.750	2.218	.785	1.500	10
2942SST	1	.700–.950	2.218	.785	1.500	10

Cord and Cable Fittings

Our Ranger® Liquidtight Fittings are the only connectors able to take a .250" cable range.

Ranger® Series Cord Connectors

- Connectors that take twice the cable range of ordinary strain relief connectors
- Smaller overall size that makes it easy to fit into tight spaces
- Gland nut design that restricts cable bending



2920SST Ranger® Series

CAT. NO	SIZE	MIN.	MAX.	SVO, SV, SVT				SJ, SJO, SJT, SJTO				S, SO, ST, STO			
				#18	#18	#16	#14	#18	#16	#14	#12	#10	#8	#6	
2 Conductor															
2920SST	½"	0.125	0.375	X	X	X	X								
2921SST	½"	0.310	0.560			X	X	X	X	X					
2922SST	½"	0.500	0.750				X	X	X	X	X	X			
2930SST	¾"	0.125	0.375	X	X	X	X								
2931SST	¾"	0.310	0.560			X	X	X	X	X					
2932SST	¾"	0.500	0.750				X	X	X	X	X	X			
2940SST	1"	0.310	0.560			X	X	X	X	X					
2941SST	1"	0.500	0.750				X	X	X	X	X	X			
2942SST	1"	0.700	0.950				X						X	X	
3 Conductor															
2920SST	½"	0.125	0.375	X	X	X									
2921SST	½"	0.310	0.560		X	X	X	X	X						
2922SST	½"	0.500	0.750							X	X	X			
2930SST	¾"	0.125	0.375	X	X	X									
2931SST	¾"	0.310	0.560		X	X	X	X	X						
2932SST	¾"	0.500	0.750							X	X	X			
2940SST	1"	0.310	0.560			X	X	X	X						
2941SST	1"	0.500	0.750		X					X	X	X			
2942SST	1"	0.700	0.950									X	X		
4 Conductor															
2920SST	½"	0.125	0.375	X											
2921SST	½"	0.310	0.560		X	X	X	X	X						
2922SST	½"	0.500	0.750							X	X				
2930SST	¾"	0.125	0.375	X											
2931SST	¾"	0.310	0.560		X	X	X	X	X						
2932SST	¾"	0.500	0.750							X	X				
2940SST	1"	0.310	0.560		X	X	X	X	X						
2941SST	1"	0.500	0.750							X	X				
2942SST	1"	0.700	0.950									X	X		