

Jacketed Metal Clad Cable Termination Fittings

Jacketed Metal Clad Cable and Teck Cable

Metal Clad Cable (Type MC) Ref. NEC Article 334*

"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. 334-3 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 334 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 Cables

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 volt 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 location) and 75° C (wet locations). When Teck cable is suitable for installation down to minus 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 its flexibility and ease of installation. Absence of dead air space within cable increases heat transfer and minimize condensation. 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.



**Greater Cable
Range + Fewer
Part Numbers =
Less Inventory!**

STAR TECK EXTREME® —

STE/STEX Series Cable Fitting

The STAR TECK® STE cable fitting series is designed for optimum integrity in ordinary applications. The STEX series is specially designed for classified hazardous areas. Both are designed to stand up to the harshest and most corrosive environment.

Application

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

Features

- Patented powergrip grounding ring
- Removable armor-stop for greater cable ranges
- Built-in sealing device
- Patented Elastomeric collar ring/bushing for greater cable ranges
- Built-in jacket stripping gauge on gland nut
- Gland nut can be tightened with hammer and screwdriver

Range

- STAR TECK EXTREME® fittings are designed to accommodate a broad range of cables. Each hub range overlaps the adjacent hub range, thereby minimizing the possibility of mismatched cables and fittings in the field. They are available in hub sizes from 1/2" to 4" and will handle outer jacket diameters from 0.525" to 4.340".

Materials

- Aluminum is standard material
- Add suffix "S" for steel with zinc plating
- Add suffix "PVC" for corrosion resistant PVC coating
- Add suffix "SS" for stainless steel material

Cable Type

- JMC, MC-HL, Teck

Environment Classification

- STE* Series
 - Ordinary Location
 - Class I, Division 2†
 - NEMA 4, 4X (stainless steel), 6P
 - STE050 — STE200
NEMA 6P
 - STE250 — 400
NEMA 4
 - STE050 — 400
NEMA 4X (stainless steel)
- STEX** Series
 - Class I, Division 1, Groups A, B, C, D
 - Class II, Division 1, Groups E, F, G
 - Class III
 - NEMA 4, 4X (stainless steel), 6P
- UL Listed for Direct Burial when made from stainless steel material
- Suitable for use in wet locations and concrete tight (steel) applications per UL 514B
- UL File No. E82038/E38947
- CSA File No. LR638/LR23086

* These fittings are suitable for Class I hazardous locations when used in combination with a certified Class I hazardous location sealing fitting.

** May be used in hazardous areas with approved MC-HL or Teck cable (or equal) when installed in accordance with NEC/CEC requirements.

Not applicable to all STEX series.

Jacketed Metal Clad Cable Termination Fittings



STE Series Ordinary

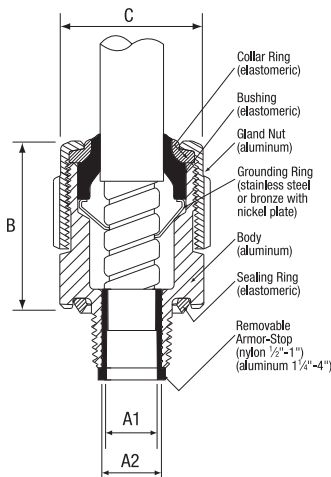


STEX Series Hazardous Locations

STAR TECK EXTREME® Jacketed Metal-Clad Cable Fittings



CAT. NO.	HUB SIZE NPT	STRIP LENGTH (IN.)	GLAND TORQUE (IN.-LB.)	CABLE RANGE OVER JACKET (IN.)		CABLE RANGE OVER ARMOR (IN.)		DIMENSIONS (IN.)				SEALING COMPOUND REQUIRED	
				MIN.	MAX.	MIN.	MAX.	A1: THROAT DIA. MIN. W/END STOP	A2: THROAT DIA. MIN. WO/END STOP	B OVERALL	C MAX. O.D.	SC65 PUTTY (G)	SC4-KIT LIQUID (CC)
Ordinary Locations													
ST050-462#	½	1¼	300	.525	.650	.415	.570	N/A*	.395	2.020	1.224	—	—
STE050DATA**#	½	¾	300	.592	.693	.502	.603	.375	.515	2.100	1.360	—	—
STE050*	½	1¼	300	.600	.985	.520	.895	.505	.612	2.650	1.630	—	—
STE075*	¾	1¼	600	.860	1.205	.780	1.125	.655	.816	2.900	2.080	—	—
STE100*	1	1¼	700	.950	1.375	.870	1.295	.785	1.044	3.020	2.300	—	—
STE125*	1¼	1¼	1,000	1.150	1.625	.990	1.465	.970	1.250	4.010	2.820	—	—
STE150*	1½	1¼	1,200	1.440	1.965	1.280	1.805	1.260	1.562	4.290	3.250	—	—
STE200*	2	1¼	1,600	1.825	2.375	1.665	2.215	1.645	1.995	4.120	3.600	—	—
STE250	2½	2½	1,600	2.265	2.840	2.105	2.680	2.075	2.424	5.320	4.750	—	—
STE300	3	2½	1,600	2.670	3.270	2.545	3.145	2.531	2.890	5.400	5.400	—	—
STE350	3½	2½	1,600	3.220	3.870	3.090	3.640	3.065	3.460	5.360	5.900	—	—
STE400	4	2½	1,600	3.665	4.340	3.550	4.225	3.525	3.941	5.415	6.400	—	—
Hazardous Locations													
STX050-462*	½	1¼	300	.525	.650	.415	.570	N/A*	.395	2.500	1.630	7	4
STX050-464*	½	1¼	300	.600	.760	.490	.680	N/A*	.485	2.530	1.630	7	4
STEX075*	¾	1¼	600	.600	.985	.520	.895	.504	.678	3.400	1.820	14	7
STEX100*	1	1¼	700	.860	1.205	.780	1.125	.650	.833	3.580	2.300	30	16
STEX125*	1¼	1¼	1,000	.950	1.375	.870	1.295	.834	1.065	3.920	2.510	45	22
STEX150*	1½	1¼	1,200	1.150	1.625	.990	1.465	.958	1.273	5.020	3.260	80	43
STEX200*	2	1¼	1,600	1.440	1.965	1.280	1.805	1.250	1.560	5.120	3.620	125	66
STEX250	2½	2½	1,600	1.825	2.375	1.665	2.215	1.640	1.995	5.170	4.580	341	164
STEX300	3	2½	1,600	2.265	2.840	2.105	2.680	2.075	2.461	6.610	5.100	497	239
STEX350	3½	2½	1,600	2.670	3.270	2.545	3.145	2.531	2.864	7.380	5.790	965	464
STEX400	4	2½	1,600	3.220	3.870	3.090	3.640	3.055	3.461	7.650	6.190	1323	636
STX400-484#	4	—	1,600	3.810	4.030	3.680	3.870	—	—	—	—	1645	791
STX400-485#	4	—	1,600	3.965	4.185	3.835	4.025	—	—	—	—	1645	791



To specify other material, add the appropriate suffix to the category number.

DESIRED MATERIAL	SUFFIX	EXAMPLE
Aluminum fitting with grounding lock nut	GRL	STE-050GRL
Steel with zinc plate	S	STE-050S
Aluminum with PVC coating	PVC	STE-050PVC
Steel with PVC coating	S-PVC	STE-050S-PVC

* These products are UL Listed Watertight NEMA Type 6P

** UL tested for data cables

Does not have a removable armor stop.

Sealing Compounds — Used for Hazardous Locations

CAT. NO.	DESCRIPTION	VOLUME
SC65	Putty Type Sealing Compound	60 grams
SC4-KIT	Liquid Type Sealing Compound for use in high wire density applications (5 or more wires)	2.8 fl. oz. (66 cc)

Jacketed Metal Clad Cable Termination Fittings



T&B® Fittings

Easy Installation. Exclusive power-grip. Provides a grip that's high up on the cable — not on the first convoluted — 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.

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 convoluted — 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

- Aluminum is standard material
- Add suffix "S" for steel with zinc plating
- Add suffix "PVC" for corrosion resistant PVC coating
- Add suffix "SS" for stainless steel Grade 316 material (½"–2" sizes)

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"

Installing the STAR TECK® Fitting



1. Prepare cable



2. Insert cable



3. Tighten gland nut

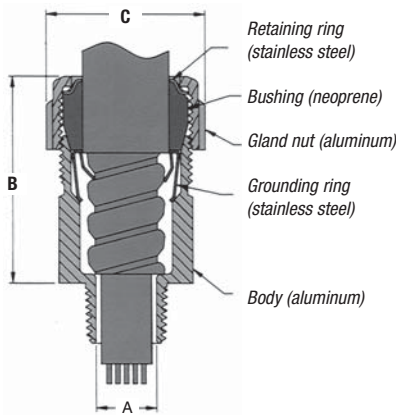
Jacketed Metal Clad Cable Termination Fittings

Overlapping range of sizes accommodates a broad range of cables!

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



T&B Fittings



- 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 4.34"
- Suitable for hazardous locations (Class I 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)

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

* Approximate dimension before installation.

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 (aluminum series ST050-464).
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, aluminum fittings such as Thomas & Betts series ST050-464 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.

Easy installation saves time, money!



STAR TECK XP® Jacketed Metal-Clad Cable Fittings for Hazardous Locations

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

- Sealing chamber is easier to fill, requires less sealing compound — saves time, material. Flame path is optimally designed to enable easy insertion into hub. Quick-turn lock
- Internal splines
- Union features twist-on action; red color for high visibility
- Exclusive Power Grip. Provides grip that's high up on cable armor Non-magnetic stainless steel Power Grip grounding ring ensures 360° long-term dependable grounding. It provides phenomenal tensile pullout resistance.
- Low profile gland nut

Materials

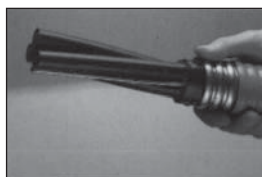
- Aluminum is standard material
- Add suffix "S" for steel with zinc plating
- Add suffix "PVC" for corrosion resistant PVC coating
- Add suffix "SS" for stainless steel material

Environment Classification

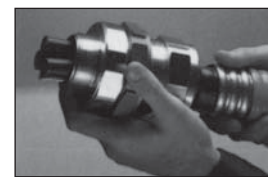
- Suitable for hazardous locations. Class I Div. 2; Class II Div. 2; Class III. Where explosion proof or dust proof fittings are required by code use STAR TECK XP® fittings (STX Series)
- NEMA 4
- Suitable for use in wet locations and concrete tight (steel) applications per UL 514B
- UL File No. E82038/E38947
- CSA File No. LR23086

Range

- Available in hub sizes from ½" to 4", and will handle outer jacket diameters from 0.525" to 4.185"



1. Prepare cable



2. Install STAR TECK XP on cable



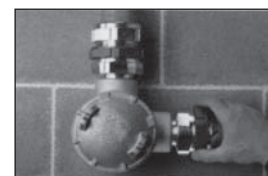
3. Tighten gland nut



4. Pot cable (using liquid or putty)



5. Install hub on enclosure



6. Insert cable and tighten red union

Sealing chamber is easier to fill, requires less sealing compound — saves time, material. Flame path is optimally designed to enable easy insertion into hub. Quick-turn lock secures assembly during installation.

Hub has hexagonal shape for dependable tool grip.

Internal splines enable installer to tighten gland nut either on or off enclosure.

Exclusive Power Grip. Provides grip that's high up on cable armor — not on first convolution — so precise cable preparation is not critical. Non-magnetic stainless steel Power Grip grounding ring ensures 360° long-term dependable grounding. It provides phenomenal tensile pullout resistance.

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

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

Copper-free construction. All aluminum body and gland nut resist corrosion, oxidation.

Union features twist-on action for easy connection and disconnection; red color ensures high visibility, easy recognition. Union also serves as a "puller" during disassembly.

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

Jacketed Metal Clad Cable Termination Fittings

STAR TECK XP® Jacketed Metal Clad Cable Fittings for Hazardous Locations



CAT. NO.	HUB SIZE NPT	CABLE RANGE OVER JACKET (IN.)		CABLE RANGE OVER ARMOR (IN.)		DIMENSIONS (IN.)			SEALING COMPOUND REQUIRED	
		MIN.	MAX.	MIN.	MAX.	A	B*	C	SC65** PUTTY (G)	SC4-KIT** LIQUID (CC)
STX050-462	1/8	0.525	0.650	0.415	0.570	0.395	2.50	1.63	7	4
STX050-464	1/8	0.600	0.760	0.490	0.680	0.485	2.50	1.63	7	4
STX075-465	3/16	0.725	0.885	0.615	0.805	0.612	2.62	1.82	14	7
STX075-466	3/16	0.825	0.985	0.715	0.905	0.720	2.62	1.82	14	7
STX100-467	1/4	0.880	1.065	0.770	0.985	0.755	2.83	2.30	30	16
STX100-468	1/4	1.025	1.205	0.915	1.125	0.900	2.83	2.30	30	16
STX125-469	1/2	1.187	1.375	1.077	1.295	1.062	3.05	2.51	45	22
STX150-470	1/2	1.357	1.625	1.240	1.545	1.182	3.76	3.26	80	43
STX150-550	1/2	1.500	1.625	1.390	1.545	1.370	3.76	3.26	80	43
STX150-471	1/2	1.600	1.875	1.490	1.795	1.470	3.76	3.26	80	43
STX200-472	3/4	1.700	1.965	1.590	1.885	1.557	4.05	3.62	125	66
STX200-473	3/4	1.900	2.187	1.790	2.107	1.757	4.05	3.62	125	66
STX200-474	3/4	2.100	2.375	1.990	2.280	1.995	4.15	4.02	150	80
STX250-475	1	2.300	2.565	2.200	2.485	2.185	4.31	4.58	341	164
STX250-476	1	2.500	2.750	2.380	2.656	2.365	4.31	4.58	341	164
STX300-478	1 1/4	2.580	2.840	2.477	2.750	2.460	5.64	5.10	497	239
STX300-479	1 1/4	2.790	3.060	2.677	2.970	2.660	5.80	5.33	609	293
STX350-480	1 1/2	3.000	3.270	2.880	3.190	2.864	6.32	5.79	965	464
STX350-481	1 1/2	3.210	3.480	3.080	3.390	3.062	6.32	5.79	965	464
STX400-482	2	3.420	3.690	3.307	3.590	3.290	6.63	6.19	1323	636
STX400-483	2	3.610	3.870	3.477	3.770	3.460	6.63	6.19	1323	636
STX400-484	2 1/2	3.810	4.030	3.650	3.930	3.630	7.09	6.90	1645	791
STX400-485	2 1/2	3.965	4.185	3.794	4.065	3.775	7.09	6.90	1645	791

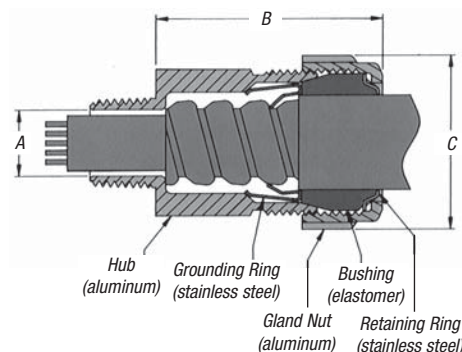
* Approximate dimension before installation.

** 1 unit of SC65 putty type sealing compound contains 60 g. 1 unit of SC4-Kit liquid type sealing compound contains 66 cc and includes a dispensing syringe and fiber damming material.

CAUTION: STAR TECK XP® fittings must be installed with Thomas & Betts catalog numbers SC4-Kit or SC65 sealing compound (purchase separately). See installing instructions.

Sealing Compounds

CAT. NO.	DESCRIPTION	VOLUME
SC65	Putty Type Sealing Compound	60 grams
SC4-KIT	Liquid Type Sealing Compound for use in high wire density applications (5 or more wires)	2.8 fl. oz. (66 cc)



UL Connectors when Used with Putty Type Listed or Liquid Type Compound For:

1/2 thru 3"	Class I	Div. 1	Groups A, B, C, D
	Class II	Div. 2	Groups F, G
	Class III		
		Enclosure Type 4	

Connectors when Used with Putty Type or Liquid Type Compound

3 1/2" & 4"	Class I	Div. 1	Groups B, C, D
	Class II	Div. 2	Groups F, G
	Class III		Enclosure Type 4

CSA Certified For:

Class I	Division 1 and 2	Groups A, B, C, D
Class II	Division 1 and 2	Groups E, F, G
Class III, SL (Integral Seal)		Enclosure Type 4

Spin-On® Series II Connectors and Accessories

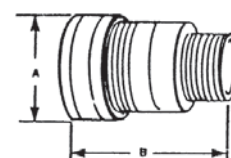


T&B Fittings

CAT. NO.	HUB SIZE NPT	CABLE RANGE OVER ARMOR (IN.)	DIMENSIONS (IN.)		OPTIONAL CORROSION RESISTANT BOOT CAT. NO.
			A DIA.	B	
2-050-008	1/2	.380-.435	1 1/4	1 1/4	NB050
2-050-010	1/2	.436-.500	1 1/4	1 1/4	NB050
2-050-020	1/2	.501-.580	1 1/4	1 1/4	NB050
2-050-030	1/2	.581-.650	1 1/4	1 1/4	NB050
2-075-040	3/4	.651-.730	1 3/4	2 1/4	NB075
2-075-050	3/4	.731-.820	1 3/4	2 1/4	NB075
2-075-060	3/4	.821-.880	1 3/4	2 1/4	NB075
2-100-070	1	.881-.960	2	2 1/4	NB100
2-100-080	1	.961-1.030	2	2 1/4	NB100
2-100-090	1	1.031-1.100	2	2 1/4	NB100
2-100-100	1	1.101-1.180	2	2 1/4	NB100
2-125-110	1 1/4	1.181-1.240	2 1/4	2 1/4	NB125
2-125-120	1 1/4	1.241-1.310	2 1/4	2 1/4	NB125
2-125-130	1 1/4	1.311-1.390	2 1/4	2 1/4	NB125
2-150-140	1 1/2	1.391-1.480	2 3/4	2 3/4	NB150
2-150-150	1 1/2	1.481-1.570	2 3/4	2 3/4	NB150
2-150-160	1 1/2	1.571-1.660	2 3/4	2 3/4	NB150
2-200-170	2	1.661-1.750	3	2 3/4	NB200
2-200-180	2	1.751-1.840	3	2 3/4	NB200
2-200-190	2	1.841-1.930	3	2 3/4	NB200
2-200-200	2	1.931-2.030	3	2 3/4	NB200
2-250-210	2 1/2	2.031-2.150	3 3/4	3 3/4	NB250
2-250-220	2 1/2	2.151-2.270	3 3/4	3 3/4	NB250
2-250-230	2 1/2	2.271-2.390	3 3/4	3 3/4	NB250
2-250-240	2 1/2	2.391-2.510	3 3/4	3 3/4	NB250
2-300-250	3	2.511-2.640	4 1/2	3 3/4	NB300
2-300-260	3	2.641-2.770	4 1/2	3 3/4	NB300
2-300-270	3	2.771-2.900	4 1/2	3 3/4	NB300
2-300-280	3	2.901-3.040	4 1/2	3 3/4	NB300
2-350-300	3 1/2	3.171-3.310	5	3 3/4	NB350
2-350-310	3 1/2	3.311-3.450	5	3 3/4	NB350
2-350-320	3 1/2	3.451-3.590	5	3 3/4	NB350
2-400-330	4	3.591-3.730	5 1/2	3 3/4	NB400
2-400-340	4	3.731-3.870	5 1/2	3 3/4	NB400

UL File No. E38947

CSA File No. LR 2884



Connector
Aluminum



In corrosive environments, the T&B neoprene boot provides maximum corrosion protection to the connector. Simply match the connector hub size to the boot hub size to select the proper boot (NB Series).

Jacketed Metal Clad Cable Termination Fittings

Install a complete gas-blocked connector in a hazardous location!

Spin-On® X Connectors for Hazardous Locations

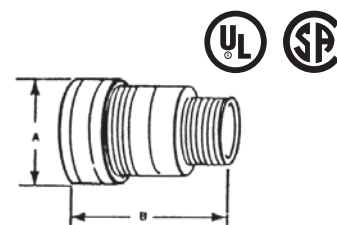
CAT. NO.	HUB SIZE NPT	CABLE RANGE OVER ARMOR (IN.)	DIMENSIONS (IN.)		SEALING COMPOUND REQUIRED	
			A DIA.	B	SC65** PUTTY (G)	SC4-KIT** LIQUID (CC)
4-075-008	3/8	.380-.435	1%	2%	25	12
4-075-010	3/8	.436-.500	1%	2%	25	12
4-075-020	3/8	.501-.580	1%	2%	25	12
4-075-030	3/8	.581-.650	1%	2%	25	12
4-075-040	3/8	.651-.730	1%	2%	25	12
4-100-050	1	.731-.820	2	2%	55	30
4-100-060	1	.821-.880	2	2%	55	30
4-100-070	1	.881-.960	2	2%	55	30
4-100-080	1	.916-1.030	2	2%	55	30
4-125-090	1 1/4	1.031-1.100	2 1/4	2 1/2	70	40
4-125-100	1 1/4	1.101-1.880	2 1/4	2 1/2	70	40
4-125-110	1 1/4	1.181-1.240	2 1/4	2 1/2	70	40
4-125-120	1 1/4	1.241-1.310	2 1/4	2 1/2	70	40
4-150-130	1 1/2	1.311-1.390	2 3/4	2 3/4	80	45
4-150-140	1 1/2	1.181-1.240	2 3/4	2 3/4	80	45
4-150-150	1 1/2	1.241-1.310	2 3/4	2 3/4	80	45
4-200-160	2	1.571-1.660	3	2 1/2	95	55
4-200-170	2	1.661-1.750	3	2 1/2	95	55
4-200-180	2	1.751-1.840	3	2 1/2	95	55
4-200-190	2	1.841-1.930	3	2 1/2	95	55
4-250-200	2 1/2	1.931-2.030	3 1/2	3 1/2	200	120
4-250-220	2 1/2	2.151-2.270	3 1/2	3 1/2	200	120
4-300-240	3	2.391-2.510	4 1/2	3 3/4	275	165
4-300-260	3	2.641-2.770	4 1/2	3 3/4	275	165
4-300-270	3	2.771-2.900	4 1/2	3 3/4	275	165
4-400-350	4	3.871-4.010	5 1/2	3 3/4	500	300

Suffix Cat. No. with S for steel, B for brass.

SPIN-ON® X is UL Listed for: Class I, Div. 2, Groups A, B, C, & D in 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2" Hub sizes. Class I, Div. 2, Groups C & D in 3", 3 1/2", and 4" Hub sizes. The entire line is UL listed for Class II, Div. 2, Groups F & G and Class III. CSA certified through 4" Hub size for Class I, Groups A, B, C, D; Class II, Groups E, F, G; and Class III.

UL File No. E82038

CSA File No. LR23086



Spin-On® X Connectors for Hazardous Locations

- Each SPIN-ON® X catalog number is a complete compound-filled connector kit
- 3-piece construction — gland/body/insert with O-ring
- Red anodized gland identifies hazardous location fitting
- Compact size — overall length is 3/4 less than conventional fitting
- Installation time is 50% less than conventional
- Full tapered hub threads for gas-tight thread engagement
- Machined aluminum construction for corrosion resistance
- Sealing compound (sold separately) premixed for consistency — no jobsite variations
- Neoprene boots available for additional corrosion protection
- For control cable applications, order liquid compound separately

Liquid Type Sealing Compounds

CAT. NO.	DESCRIPTION	VOLUME
SC65	Putty Type Sealing Compound	60 grams
SC4-KIT	Liquid Type Sealing Compound for use in high wire density applications (5 or more wires)	2.8 fl. oz. (66 cc)