

# TECK CABLE FITTINGS

Star Teck Extreme® (STE) – Series Fittings for Teck Cable and ACWU Cable



## Easy Installation



1. Prepare cable.



2a. Insert cable.



2b. For larger cables, unscrew and discard armor-stop.



3. Tighten gland nut.

**Warning:** Always ensure that the system is de-energized before performing any installation.

## Inside StarTeck Extreme®

**Extreme**

**Removable armor-stop** is factory installed. Fittings come ready to install on smallest cable in its range. For larger cables, no fitting disassembly required. Simply unscrew armor-stop and discard.

**Extreme**

**Built-in sealing device** provides 360° seal even when enclosure surface is rough or uneven.

**Copper-free construction.** Non-corrosive all aluminum body and gland nut.

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

**Extreme**

**Elastomeric collar ring** extends cable diameter range per fitting. Matching cable to fitting hub size is made easy.

(NOTE : The STE 050-DATA collar ring is made of stainless steel.)

**Extreme**

**Sharp biting teeth** provide superior electrical bonding and allow corrosive liquids to drain away quickly.

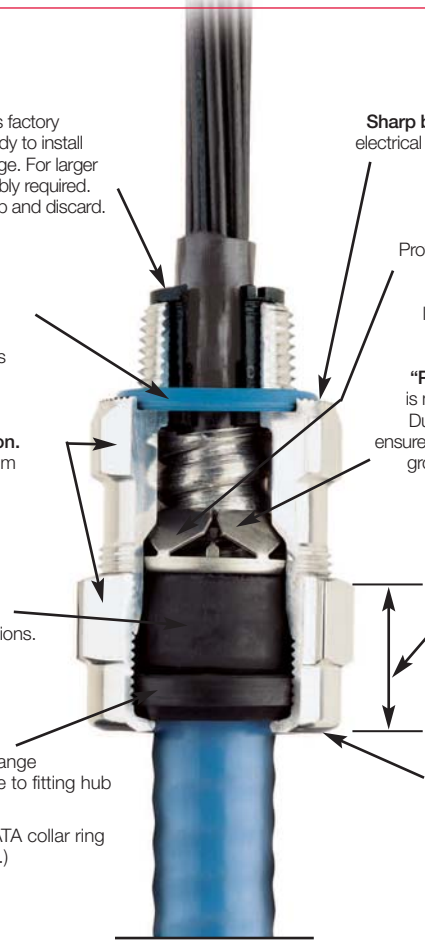
**Exclusive power-grip.** Provides a grip that's high up on the cable— not on the first convolution—so jacket strip length of cable is not critical.

**"Power Grip" grounding ring** is non-magnetic stainless steel. Dual sets of grounding devices ensure 360° long-term dependable grounding. It makes immediate contact with the cable during insertion.

**Extreme**

**Built-in jacket stripping gauge** on each fitting.

**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.



## Suggested specifications for metal-clad cable or teck cable fittings in hazardous locations:

1. All metal-clad cable fittings for jacketed and non-jacketed interlocked armor cable, continuous corrugated cable or teck 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 STE050).
3. A synthetic rubber sealing device shall be captivated in a face groove providing optimized sealing even on irregular surfaces.

The configuration shall also prevent over-compression of the seal such as Thomas & Betts series STE050, by incorporation an easily removable armor-stop.

4. With single conductor cable and/or in corrosive environments, aluminum fittings such as Thomas & Betts series STE050 shall be installed.
5. All metal-clad cable fittings, for jacketed and non-jacketed interlocked armor cable, shall provide external bonding/grounding teeth capable of penetrating surface finishes to contact enclosure base metal. (Thomas & Betts series STE050).
6. All metal-clad cable fittings, for jacketed and non-jacketed interlocked armor cable, shall incorporate an easily removable armor-stop, not requiring fitting disassembly ensuring proper positioning of the cable armor during cable termination. (Thomas & Betts series STE050).

# TECK CABLE FITTINGS

## Star Teck Extreme® (STE) – Series Fittings for Teck Cable and ACWU Cable



StarTeck Extreme® fittings are designed to accommodate a broad range of cables and each hub size overlaps the adjacent hub range, thereby minimizing the possibility of mismatched cables and fittings in the field. Available in hub sizes from 1/2 to 4 inches, StarTeck Extreme® fittings will terminate outer jacket diameters from 0.500 to 4.340.

Cat. No.	Hub Size N.P.T.	Strip Length (in.)	Gland Torque (lb-in.)	Range Over Jacket (in.)		Range Over Armor (in.)		A1 Throat Dia. Min. (in.) w/ Armor Stop	A2 Throat Dia. Min. (in.) w/o Armor Stop	B* Overall (in.)	C Max. O.D. (in.)
				Min.	Max.	Min.	Max.				
STE050-DATA	1/2	7/8	300	0.500	0.700	0.410	0.610	0.365	0.515	2.100	1.360
STE050	1/2	1-1/4	300	0.600	0.985	0.520	0.895	0.500	0.505	2.650	1.630
STE075	3/4	1-1/4	600	0.860	1.205	0.780	1.125	0.650	0.645	2.900	2.080
STE100	1	1-1/4	700	0.950	1.375	0.870	1.295	0.795	0.785	3.020	2.300
STE125	1-1/4	1-3/4	1000	1.150	1.625	0.990	1.465	0.960	0.970	4.010	2.820
STE150	1-1/2	1-3/4	1200	1.440	1.965	1.280	1.805	1.250	1.260	4.290	3.250
STE200	2	1-3/4	1600	1.825	2.375	1.665	2.215	1.635	1.645	4.120	3.600
STE250	2-1/2	2-1/2	1600	2.265	2.840	2.105	2.680	2.070	2.075	5.670	4.750
STE300	3	2-1/2	1600	2.670	3.270	2.545	3.145	2.525	2.531	5.780	5.400
STE350	3-1/2	2-1/2	1600	3.220	3.870	3.090	3.640	3.060	3.065	5.740	5.900
STE400	4	2-1/2	1600	3.665	4.340	3.550	4.225	3.520	3.525	5.790	6.400

\* Approximate dimension before installation.

### Materials

**Aluminum:** The above listed catalogue numbers relate to aluminum fittings.

**Steel:** The body and gland nut on hub sizes 1/2 to 1-1/2 inch are made of steel. The body and gland nut on 2- to 4-inch hub sizes are made of malleable iron. To order a steel fitting, add the suffix "S" to the catalogue number (example STE050S).

### Certifications

**Type HLA, CSA Certified Class II, Divisions 1 and 2, Groups E, F, and G; Class III and Enclosure 1/2 to 2 Type 4, 4X and 6P, 2-1/2 to 4 Type 4 and 4X, Classes I, II and III.** These fittings are suitable for Class I hazardous locations when used in combination with a certified Class I hazardous location sealing fitting. CSA File No. LR-23086.

Complies with IEC requirements for Class 1, Zones 1 and 2, when used in combination with a certified Class I hazardous location sealing fitting.

**U.L. Listed** for metal clad cable, Type 6P. STE050-Data is U.L. Listed with cables from 0.592 to 0.693 over jacket.

**Note** -To order fittings complete with aluminum BondStar® locknut and lug, add the suffix "GRL" to the catalogue number (example STE050GRL). For complete details refer to pages 20, 21 of this catalogue.

### Broadest range of teck cable diameters per hub size

StarTeck Extreme® Cat. No.	StarTeck® Cat. No.	Hub Size (NPT) (in.)	Range over Jacket (in.) Min. - Max.
<i>Eleven catalogue numbers cover the range from 0.500 to 4.340 inches.</i>			
STE050-DATA	ST038-461S	3/8	0.344 - 0.535
	-	1/2	0.500 - 0.700
STE050 0.600 - 0.985	ST050-462	1/2	0.525 - 0.650
	ST050-464		0.526 - 0.760
	ST050-465		0.725 - 0.885
	ST050-466		0.825 - 0.985
STE075 0.860 - 1.205	ST075-467	3/4	0.880 - 1.065
	ST075-468		1.250 - 1.205
STE100 0.950 - 1.375	ST100-469	1	1.187 - 1.375
	ST125-470	1-1/4	1.350 - 1.625
ST125-550	1.500 - 1.625		
ST125-471	1.600 - 1.875		
STE150 1.440 - 1.965	ST150-472	1-1/2	1.700 - 1.965
	ST150-473		1.900 - 2.187
STE200 1.825 - 2.375	ST200-551	2	1.900 - 2.187
	ST200-474		2.100 - 2.375
	ST200-475		2.300 - 2.565
	ST200-476		2.500 - 2.750
STE250 2.265 - 2.840	ST250-477	2-1/2	2.380 - 2.640
	ST250-478		2.580 - 2.840
STE300 2.670 - 3.270	ST300-479	3	2.790 - 3.060
	ST300-480		3.000 - 3.270
	ST300-481		3.210 - 3.480
STE350 3.220 - 3.870	ST350-482	3-1/2	3.420 - 3.690
	ST350-483		3.610 - 3.870
STE400 3.665 - 4.340	ST400-484	4	3.810 - 4.030
	ST400-485		3.965 - 4.185
	ST400-486		4.120 - 4.340

