Star Teck XP (STX) hazardous location series fittings for Teck cable

Easy installation
Hub has hexagonal shape for dependable tool grip.

User-friendly
Internal splines allow installer to tighten gland nut either on or off enclosure.

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

Corrosion resistant
Copper-free construction. All-aluminum body and gland nut resist corrosion and oxydation.

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

Easy fill and assembly
Sealing chamber is easier to fill, requires less sealing compound – saves time, material. Flame path is optimally designed to allow for easy insertion into hub. Quick-turn lock unitizes assembly during installation.

Exclusive power grip
Provides grip that's high upon cable armour – not on first convolution – so precise cable preparation is not critical. Non-magnetic stainless steel Power Grip grounding ring assures 360° long-term dependable grounding. Also provides phenomenal tensile pull-out resistance.

Easy to install in tight spaces
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.

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

Easy installation

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01 Prepare cable
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02 Install Star Teck XP on cable
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03 Tighten gland nut
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04 Pot cable (using liquid or putty)
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05 Install hub on enclosure
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06 Insert cable and tighten red union

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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 armour 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 ABB, STX050-464.
3. With single conductor cable and/or in corrosive environments, aluminum connectors such as ABB series STX050-464 shall be installed.
4. In hazardous location applications, the fitting shall be of the integral seal type with metal-to-metal contact construction such as ABB Star Teck XP series. Sealing of multi-conductor or shielded cables shall be accomplished with a liquid-type polyurethane compound such as ABB series SC4-KIT-1. Putty-type sealing compound such as ABB series SC65 may be used for other applications.
5. The fitting must:
   a. Provide an environmental seal around the outer jacket of the cable and electrically bond the fitting to the cable armour prior to potting the explosion-proof seal.
   b. Allow the possibility of disconnection without disturbing the environmental seal, the electrical bonding or the explosion-proof seal.

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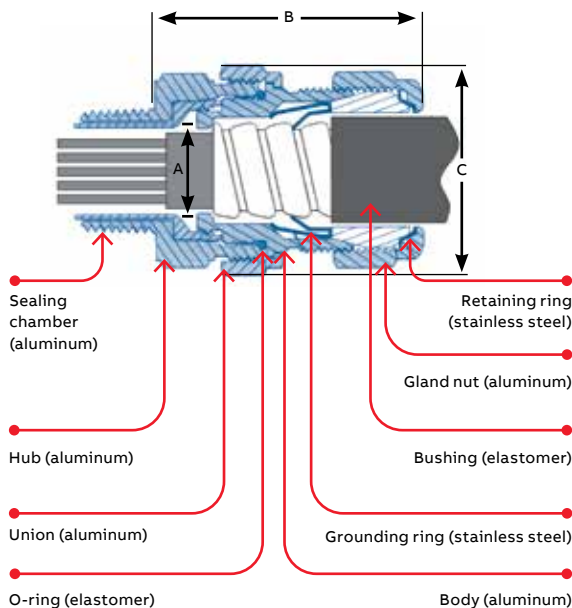
01 Series Star Teck XP (STX)
Star Teck XP cable fittings are designed to accommodate a broad range of cables, thereby minimizing the possibility of mismatched cables and fittings in the field. They are available in hub sizes from ½ to 4 inches, and will handle outer jacket diameters from 0.525 to 4.185 inches.

Cat. no.	Hub Size (in.)	Max. vol. of sealing compound (cc)	Range over jacket (in.) min.	Range over jacket (in.) max.	Dimensions (in.) A (min.)	B*	C
STX050-462	½	5	0.525	0.650	0.395	2.50	1.63
STX050-464	½	5	0.600	0.760	0.485	2.50	1.63
STX075-465	¾	8	0.725	0.885	0.607	2.62	1.82
STX075-466	¾	8	0.825	0.985	0.715	2.62	1.82
STX100-467	1	16	0.880	1.065	0.750	2.83	2.30
STX100-468	1	16	1.025	1.205	0.895	2.83	2.30
STX125-469	1¼	23	1.187	1.375	1.057	3.05	2.51
STX150-470	1½	43	1.350	1.625	1.177	3.76	3.26
STX150-550	1½	43	1.500	1.625	1.365	3.76	3.26
STX150-471	1½	43	1.600	1.875	1.465	3.76	3.26
STX200-472	2	72	1.700	1.965	1.552	4.05	3.62
STX200-473	2	72	1.900	2.187	1.752	4.05	3.62
STX200-474	2	72	2.100	2.375	1.990	4.15	4.02
STX250-475	2½	147	2.300	2.565	2.180	4.31	4.58
STX250-476	2½	147	2.500	2.750	2.360	4.31	4.58
STX300-478	3	286	2.580	2.840	2.455	5.64	5.10
STX300-479	3	286	2.790	3.060	2.655	5.80	5.33
STX350-480	3½	366	3.000	3.270	2.859	6.32	5.79
STX350-481	3½	366	3.210	3.480	3.057	6.32	5.79
STX400-482	4	614	3.420	3.690	3.285	6.63	6.19
STX400-483	4	614	3.610	3.870	3.455	6.63	6.19
STX400-484	4	614	3.810	4.030	3.625	7.09	6.90
STX400-485	4	614	3.965	4.185	3.770	7.09	6.90

* Approximate dimension before installation.
Note - Sealing compound not included. Order separately.

Materials
• Aluminum: The catalogue numbers listed at left relate to aluminum fittings.
• Steel: To order a steel fitting, add the suffix "S" to the catalogue number (example STX050-464S).

Certifications
• Type HLA. CSA Certified Class I, Divisions 1 and 2, Groups A, B, C and D; Class II, Divisions 1 and 2; Groups E, F and G; Class III, SL (integral seal) and Enclosure Type 4 and 4X. Complies with IEC requirements for Class 1, Zones 1 and 2, Groups IIC, IIB and IIA.
• UL Listed for ½ through 3 inches when used with putty or liquid type compound: Class 1, Divisions 1 and 2, Groups A, B, C and D; Class II, Division 2, Groups F and G; Class III and Enclosure Type 4 and 4X.
• UL Listed for 3½ and 4 when used with putty or liquid type compound: Class 1, Divisions 1 and 2, Groups B, C and D; Class II, Division 2, Groups F and G; Class III and Enclosure Type 4 and 4X.

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Sealing compounds

	Cat. no.	Description	Volume (cubic centimeter)
	SC4-KIT-1	Liquid-type sealing compound (includes pouch of sealing compound with integral spout and fiber damming material).	50

	Cat. no.	Description	Volume (cubic centimeter)
	SC65	Putty-type sealing compound (cut-to-length stick)	34

For more details, refer to the installation/instruction sheet.

Suitable for use on cables with a maximum of four conductors (including ground). We do not recommend SC65 for use with shielded cables. Quantity of compound required will vary according to cable conductor fill.
Note - ABB hazardous locations fittings with integral seals (STX, STEX and HLT series) are UL and CSA certified only when used with SC4-KIT-1 or SC65 sealing compounds. No other sealing compounds have been tested, certified or listed.

Sealing chamber (aluminum)
Hub (aluminum)
Union (aluminum)
O-ring (elastomer)
Retaining ring (stainless steel)
Gland nut (aluminum)
Bushing (elastomer)
Grounding ring (stainless steel)
Body (aluminum)