

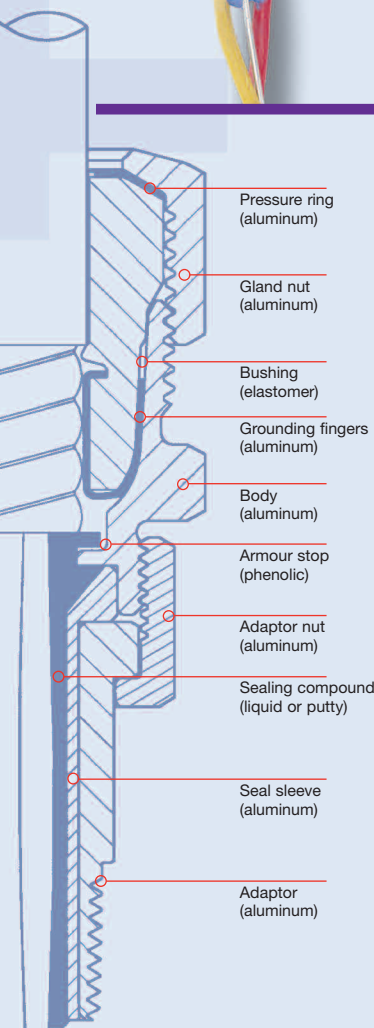
## TCAX™ Explosion-Proof Teck Cable Fittings

The TCAX™ Hazardous Location Teck Cable Fitting meets the world demands of the harshest working environments, such as refineries, petrochemical plants, dry cleaning plants, aircraft hangars and fuel servicing areas.

Explosive gases and vapours may accumulate within an enclosure and should an explosion occur within this enclosure, it is essential that it be contained. The combination of the TCAX fitting with the proper explosion-proof enclosure will withstand and confine a possible explosion. Should an explosion occur, the TCAX fitting's very close tolerances, tapered threads and long, tight flame path, will reduce the flow and cool down the hot flaming gases, thus preventing the spread of the explosion to other enclosures or into the external atmosphere.



Catalogue Number	Trade Size	Dia. Over Cable Jacket		Throat	Fitting			
		Min.	Max.		Body/Gland Nut O.D.	Adaptor Nut O.D.	Overall Length	Exposed Length
<b>Putty</b>								
<i>CI-TCAX-50-063-P</i>	1/2	0.500	0.630	0.380	1-5/8	1-3/8	3-1/2	2-7/8
<i>CI-TCAX-50-078-P</i>	1/2	0.620	0.780	0.490	1-5/8	1-3/8	3-1/2	2-7/8
<i>CI-TCAX-50-089-P</i>	1/2	0.760	0.890	0.530	1-5/8	1-3/8	3-1/2	2-7/8
<i>CI-TCAX-50-098-P</i>	1/2	0.870	0.980	0.530	1-5/8	1-3/8	3-1/2	2-7/8
<i>CI-TCAX-75-106-P</i>	3/4	0.900	1.060	0.740	1-7/8	1-5/8	3-3/4	3
<i>CI-TCAX-75-118-P</i>	3/4	1.040	1.180	0.740	1-7/8	1-5/8	3-3/4	3
<i>CI-TCAX-100-135-P</i>	1	1.160	1.350	0.890	2-1/4	1-7/8	4-1/4	3-1/2
<i>CI-TCAX-125-151-P</i>	1-1/4	1.330	1.510	1.180	2-3/4	2-1/2	4-1/4	3-1/2
<i>CI-TCAX-125-167-P</i>	1-1/4	1.490	1.670	1.240	2-3/4	2-1/2	4-1/4	3-1/2
<i>CI-TCAX-125-182-P</i>	1-1/4	1.650	1.820	1.240	2-3/4	2-1/2	4-1/4	3-1/2
<i>CI-TCAX-150-192-P</i>	1-1/2	1.730	1.920	1.480	3-1/4	3	4-1/2	3-3/4
<i>CI-TCAX-150-208-P</i>	1-1/2	1.900	2.080	1.480	3-1/4	3	4-1/2	3-3/4
<i>CI-TCAX-200-231-P</i>	2	2.060	2.310	1.890	3-3/4	3-1/4	5-1/8	4-3/8
<i>CI-TCAX-200-250-P</i>	2	2.280	2.500	1.950	3-3/4	3-1/4	5-1/8	4-3/8



### Materials

TCAX Hazardous Location Teck Cable Fittings are machined from high quality extruded copper-free aluminum (less than 0.4% copper content). The fittings are suitable for either multi or single conductor cables and are designed for maximum ease of installation and total reliability. The liquid compound can also be used. To be ordered separately with the catalogue number SC4KIT.

### Sizes

TCAX Hazardous Location Teck Cable Fittings are available in 1/2 to 2-inch NPT trade sizes covering cables from 0.50 to 2.50 inches diameter. Ranges overlap from one fitting to another, thus simplifying the choice. Smaller trade size is required for a given cable range.

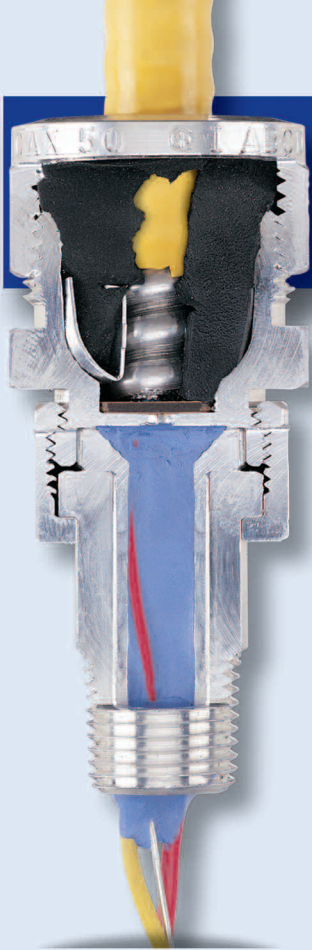
### Design

TCAX Hazardous Location Teck Cable Fittings incorporate the best design, materials and construction techniques. Each component is meticulously fabricated, inspected and assembled to meet the tightest possible tolerances. The fitting incorporates integral means for the sealing of the conductors, together with a long and tight flame propagation path to prevent the escape of hot gases. Because of its design and construction, a smaller trade size TCAX fitting can often be used for any given cable compared to other fittings that are currently available.

### Certifications

The assembled fitting shall meet or surpass the requirements of CSA Standards C22-2 No. 174 and C22-2 No. 30. TCAX fittings are CSA certified for Class I, Divisions 1, 2, Groups A, B, C, D; Class II, Groups E, F & G; and Class III Hazardous Locations "SL" integral seal.

Complies with IEC requirements for Class I, Zones 1 and 2, Groups IIC, IIB and IIA.



## Parts and Components

**Gland Nut:** When tightened, it compresses the neoprene bushing that surrounds and secures the cable.

**Fitting Body:** It has wide wrench bearing surfaces that ensure easy tightening of the gland and adaptor nuts.

**Adaptor Nut:** It secures the cable assembly to the adaptor. When disengaged, it releases the cable assembly for possible equipment maintenance or relocation.

**Adaptor:** It has full seven tapered NPT threads. Its smooth inner surface facilitates seal sleeve insertion and its octagon shaped head facilitates tightening to the enclosure.

**Pressure Ring:** It prevents distortion of the neoprene bushing when the gland nut is tightened.

**Neoprene Bushing:** It provides a permanent liquid and dust-tight seal all around the cable's outer jacket.

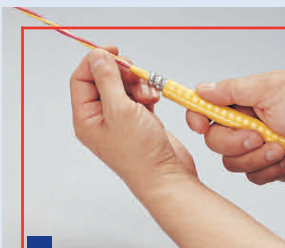
**Ground Fingers:** Embedded in the neoprene bushing, the ground fingers provide contact, at several points, between the bare armour and the fitting body, thereby ensuring proper bonding continuity.

**Sealing Compound:** Putty or Liquid Epoxy is available. When properly applied and completely cured, either type will provide the required Hazardous Location seal.

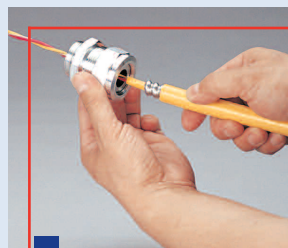
**Seal Sleeve:** It has a very close tolerance with the adaptor and can be easily removed from it while keeping the seal intact, thus allowing for equipment maintenance or relocation and easier off-site cable-to-fitting assembly.

## Installation Procedures

TCAX fittings are easily installed, as no disassembly of the gland nut from the fitting body is required during installation. The fittings are individually packaged in kit form with everything needed for installation.



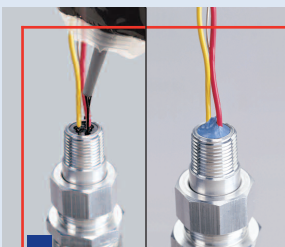
1 Prepare cable.



2 Install TCAX fitting on cable.



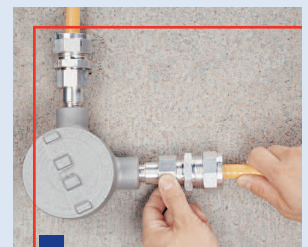
3 Tighten gland nut.



4 Pot cable using liquid or putty.



5 Insert adaptor on enclosure.



6 Insert assembly and tighten adaptor nut.