

TCAX™ Explosion-Proof Teck Cable Fittings

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.



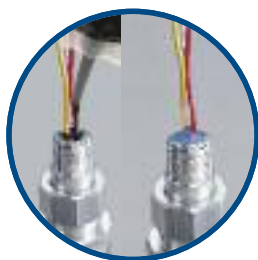
1. Prepare cable



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

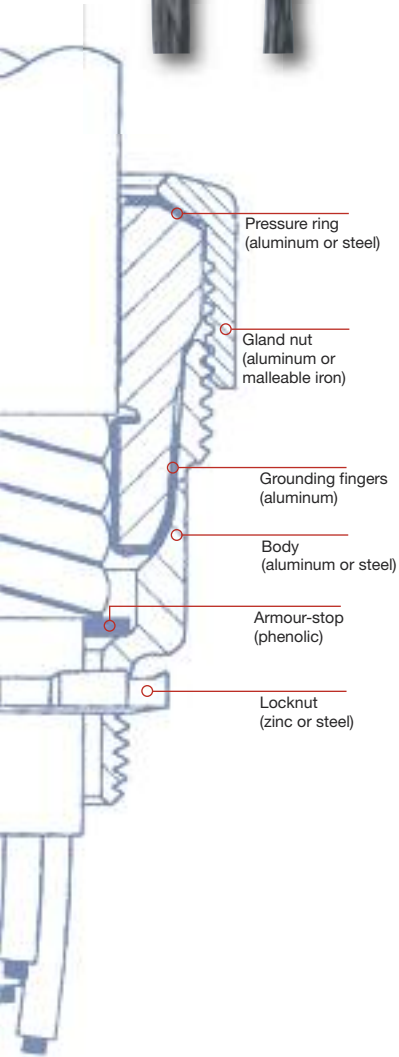
TCM™, TCA™ and TCS™ Teck Fittings



The TCM™, TCA™ and TCS™ Teck Fittings have been designed to simplify and accelerate the termination of jacketed metal and metal clad cables. The fittings have a wide array of industrial applications and provide a means to terminate cables at junction boxes, control centres, panel boards, and enclosures for motor control and electrical distribution equipment. They form a dust and watertight seal around the cable.



Cat. No.		Trade Size (in.)	KO Size (in.)	Dia. Over Cable Jacket (in.)		Throat (in.)	Dimensions (in.)	
Malleable Iron	Aluminum			Min.	Max.		Gland Nut O.D.	Overall Length
CI-TCS-50-071	—	1/2	1/2	0.50	0.71	0.49	1-7/8	3-1/4
CI-TCS-50-078	—			0.70	0.78			
CI-TCM-50-063	CI-TCA-50-063	1/2	1/2	0.50	0.63	0.38	1-11/16	2-1/2
CI-TCM-50-078	CI-TCA-50-078			0.62	0.78			
CI-TCM-50-089	CI-TCA-50-089			0.76	0.89			
CI-TCM-50-098	CI-TCA-50-098			0.87	0.98			
CI-TCM-75-106	CI-TCA-75-106	3/4	3/4	0.90	1.06	0.75	2	2-3/4
CI-TCM-75-118	CI-TCA-75-118			1.04	1.18			
CI-TCM-100-135	CI-TCA-100-135	1	1	1.16	1.35	1.00	2-1/4	3
CI-TCM-125-151	CI-TCA-125-151			1.33	1.51			
CI-TCM-125-167	CI-TCA-125-167	1-1/4	1-1/4	1.49	1.67	1.35	2-13/16	3-1/4
CI-TCM-125-182	CI-TCA-125-182			1.65	1.82			
CI-TCM-150-192	CI-TCA-150-192	1-1/2	1-1/2	1.73	1.92	1.50	3-3/8	3-1/2
CI-TCM-150-208	CI-TCA-150-208			1.90	2.08			
CI-TCM-200-231	CI-TCA-200-231	2	2	2.06	2.31	1.89	3-7/8	4
CI-TCM-200-250	CI-TCA-200-250			2.28	2.50			
CI-TCM-250-268	CI-TCA-250-268	2-1/2	2-1/2	2.48	2.68	2.37	4-7/8	5-5/8
CI-TCM-250-284	CI-TCA-250-284			2.66	2.84			
CI-TCM-250-300	CI-TCA-250-300			2.82	3.00			
—	CI-TCA-300-322			2.98	3.22			
—	CI-TCA-300-344	3	3	3.20	3.44	3.00	5-1/2	6-1/2
—	CI-TCA-300-365			3.42	3.65			
—	CI-TCA-300-385			3.63	3.85			



Materials

The TCM™ and TCS™ fittings are made of malleable iron that is zinc galvanized to maximize corrosion resistance. The TCA™ fitting is machined from high quality extruded copper-free aluminum (less than 0.4% copper content).

Sizes

Standard trade sizes from 1/2 to 3 inches are available for use with cables that have outside jacket diameters of 0.62 to 3.85 inches.

Design

TCM™, TCA™ and TCS™ 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. These fittings provide a water and dust-tight installation due to the neoprene bushing that compresses itself around the cable's outer jacket. High ground fault current carrying capacity is provided by aluminum ground fingers that are embedded in the neoprene rubber bushing and make contact with the bare armour of the cable.

Certifications

The TCM™, TCA™ and TCS™ fittings are CSA certified for Class II, Groups E, F & G; and Class III Hazardous Locations

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