Thomas&Betts

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A Member of the ABB Group

BLACKBURN® ALUMINUM DUAL RATED CONNECTORS



Listed for Aluminum and Copper Conductors

Aluminum Dual Rated Connectors are intended for use with aluminum, copper-clad aluminum and copper conductors [in accordance with the recommendations of National Electric Code (NEC) for insulated conductors rated 90°C or less].

For stranded conductors. These connectors are intended for use with the following conductor strand configurations:

Aluminum - Class B concentric, compressed and unidirectional lay compact.

Copper - Class B concentric and compressed, Class C concentric

Copper-Clad Aluminum - Class B concentric

Recommended Procedures for installing Aluminum Dual Rated Connectors with Aluminum or Copper Conductor

De-energize before installing connectors.

INSTRUCTIONS:

- 1) Check the conductor size marked on the connector to make sure it is the correct connector for the conductor size.
- 2) Carefully strip the conductor insulation, avoiding any damage to the conductor strands. The length of the conductor barrel should be used to measure strip length (see Figure 1).
- 3) Wire brush the conductor, and when using aluminum conductor, apply Blackburn® Contax® Type CT or Weaver Type CP oxide inhibiting compound, and then fully insert the conductor into connector. Wipe off any excess oxide inhibitor (see Figure 2 & 3).
- 4) Each connector has one tightening torque range regardless of the conductor size it accommodates. Once the proper connector has been selected, check the maximum conductor size it will accommodate and apply the recommended tightening torgue to the setscrew in accordance with TABLE 1 (see Figure 4).
- 5) Prior to mounting the connector, apply Blackburn® Contax® Type CT or Weaver Type CP oxide inhibiting compound to the flat contact surface of the connector.
- 6) Mounting hardware should be torgued to the values shown in TABLE 2 (see Figure 4). Although the connectors will perform satisfactorily without washers, good installation practice would recommend that flat and Belleville washers be used in conjunction with the mounting hardware.

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Don Diameter	01001		Alumnum		
 (inch)	InLbs.	(Ft Lbs.)	InLbs.	(Ft Lbs.)	
 1/4	72	(6)	48	(4)	
5/16	132	(11)	96	(8)	
3/8	228	(19)	156	(13)	
7/16	360	(30)	240	(20)	
1/2	480	(40)	300	(25)	
5/8	660	(55)	480	(40)	

WARRANTY: Thomas & Betts sells this product with the understanding that the user will perform all necessary tests to determine the suitability of this product for the user's intended application. Thomas & Betts warrants that this product will be free from defects in materials or workmanship for a period of two (2) years following the date of purchase. Upon prompt notification of any warranted defect. Thomas & Betts will, at its option, repair or replace the defective product. Misuse, misapplication or modification of Thomas & Betts Products immediately voids all warranties

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IMENDED TIGHTENING TORQUE FOR CONNEC							
	Connector's Maximum Conductor Size	Tightening Torque InLbs.					
	10-14 AWG	35					
	8 AWG	40					
	4-6 AWG	45					
	2/0-14	50					
	250-6	275					
	350-10	375					

RECOM TORS**

TABLE 1

500-6

TABLE 2

375

375

Δluminum

RECOMMENDED TIGHTENING TORQUE FOR MOUNTING HARDWARE