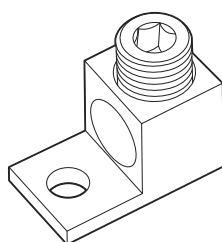


INSTALLATION INSTRUCTIONS

Mechanical connectors, aluminum dual rated

For aluminum and copper conductors

Blackburn®



WARNING:

- Risk of shock, disconnect power before installation.



CAUTION:

- Product should be installed by a qualified electrician in accordance with national and local electrical codes.

General:

Aluminum dual rated connectors are intended for use with aluminum, copper-clad aluminum and copper conductors [in accordance with the recommendations of National Electrical 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.

Instructions:

1. Check conductor size marked on connector tongue to confirm connector and conductor compatibility. (Figure 1 and 3).
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 strands. If using an aluminum conductor, apply Blackburn® Contax® Type CT or Weaver Type CP oxide inhibiting compound. Fully insert the conductor into connector. Wipe off any excess oxide inhibitor (see Figure 2 & 3).
4. Torque the setscrew according to the value listed shown in Table 1, on page 2 (see Figure 4).
5. Apply Blackburn® Contax® Type CT or Weaver Type CP oxide inhibiting compound to the contact surface of the connector (Figure 1).
6. Use mounting hardware (not supplied) to mount connector to intended surface applying torque values shown in Table 2, on page 2. Installation of a Belleville washer with the mounting hardware is recommended.



Important

Read and understand all instructions and safety information before use. Be aware of proper usage and potential hazards.

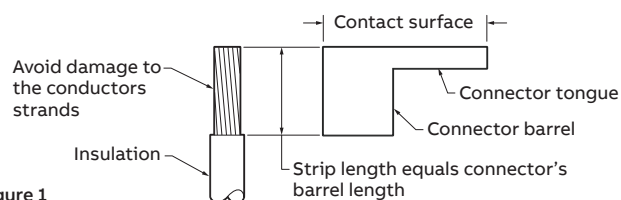


Figure 1

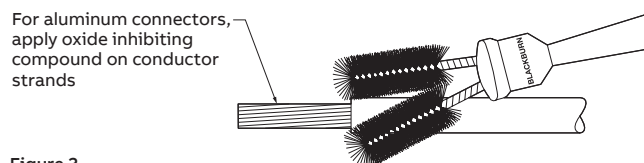


Figure 2

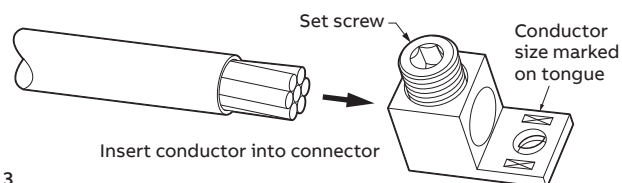


Figure 3

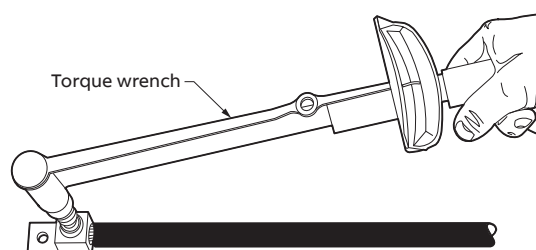


Figure 4

Table 1

Recommended tightening torque for connectors.**	
Conductor size:	Tightening torque: (in.-lbs.)
10 - 14 AWG	35
8 AWG	40
4 - 6 AWG	45
2/0 - 14	50
250 - 6	275
350 - 10	375
500 - 6	375
750 - 1/0	375

Note: Product must be installed in accordance with applicable national and local electrical codes.

** Unless otherwise noted on connector.

Table 2

Recommended tightening torque for mounting hardware.				
Bolt diameter	Steel		Aluminum	
	in.-lbs.	ft.-lbs	in.-lbs.	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

Note: Product must be installed in accordance with applicable national and local electrical codes.

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