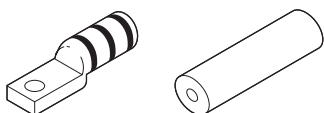


## INSTRUCTION SHEET

# Connectors, equipment lug

## For aluminum and copper conductors

### Color-Keyed®

**WARNING**

- Risk of shock, disconnect power before installation.
- Do not crimp on energized wires.

**CAUTION:**

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

**General information:**

- One-hole aluminum Color-Keyed® lug is compact in size as compared to the same size aluminum/copper lug. In most cases, it can be directly substituted for mechanical lugs.
- Made of high conductivity copper, electro-tin plated
- Wire barrel contains oxide inhibiting compound to help minimize connection resistance.
- Color coded to assist in the matching of installing die and connector.
- Maximum temperature rating: 90°C
- Maximum voltage: 600V

**Instructions:**

1. Strip cable insulation to the length specified in Table 1 (on reverse side) taking care not to nick cable strands (Figure 1).
2. Insert the stripped cable into the small hole end of the insulating cover and slide it until it is beyond the stripped cable area (see Figure 2).
3. Aluminum cable:
  - Smear a thin layer of ALUMA-SHIELD® Aluminum Joint Compound (Cat. no. 21059) on the cable (see Safety Data Sheet SDS-00012 for safe handling instructions). Use wire brush or emery cloth to clean cable through the compound in order to remove surface oxide.
  - Barrel is pre-installed with appropriate amount of compound. **WARNING: Do not remove compound from barrel.** Insufficient compound can result in an unsafe connection.
4. Remove protective cap from the end of the connector barrel and insert cable into barrel until it stops (Figure 3). The insertion length will approximate the stripped length of cable.
5. Refer to Table 1 (on reverse side) to select correct installing die and determine number of required compressions for each die connector combination. Insert connector in die and compress between color markings beginning near the tongue of the connector and work

**Important**

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

towards the end, see Figure 3. **CAUTION:** Use of improper installing dies may result in malfunctioning connection.

6. After crimping, remove all sharp edges, flashes, or burrs.
7. Connect lug to equipment (Figure 4).
8. Slide the insulating cover onto the lug until it stops. Use pliers to secure a TY-RAP® cable tie to the cable insulation flush with the back end of insulating cover (See Figure 4).



Figure 1



Figure 2

Cross section showing cable insertion

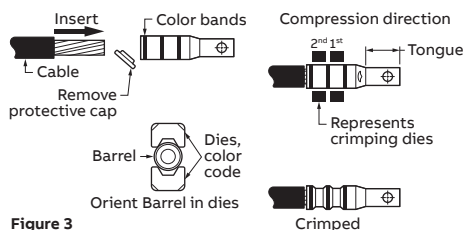


Figure 3

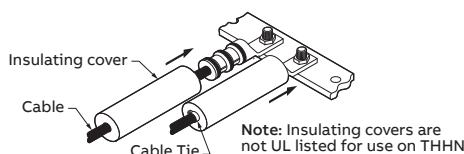


Figure 4

**Note:** Insulating covers are not UL listed for use on THHN and THWN insulated cables.

**Table 1**  
Strip length, Cable size, Color codes, Die codes, Tools, and Insulating methods

**Product selection - inches**

Part no.	Strip length	*Cable range aluminum and copper	Cable size aluminum	Bolt hole size	Color code	Hand tools								Smart tool		Hydraulic tools				
						TBM5				TBM6				TBM8		TBM8-750M-1	TBM15		13642	
						Die no. (Color)	No. of comp(s)	Upper (color)	Die no. Lower (color)	No. of comp(s)	Die no. (Color)	No. of comp(s)	No. of comp(s)	Die no. (Code)	No. of comp(s)	Die no. (Code)	No. of comp(s)			
61102	7/8	—	8	¼	Gray	13454 (Gray)	2	13472 (Gray)	13476 (Gray)	2	13461 (Gray)	2		2	15527 (29)	2	11734 (29)	2		
61107			6																	
61112			4																	
61116	1	—	2	¼	Green	13455 (Green)	2	13474 (Green)	13477 (Green)	2	13462 (Green)	2	2	15513 (37)	2	11736 (37)	2			
61122			1																	
61130	1½	#8-1/0	1/0	¾	Gold	13457 (Gold)	2	13474 (Gold)	13477 (Gold)	2	13464 (Gold)	2	2	15526 (45)	2	11738 (45)	2			
61136		#1-2/0	2/0																	
61142	1¼	—	3/0	¾	Olive	13457 (Olive)	2	13475 (Olive)	13477 (Olive)	2	13464 (Olive)	2	2	15511 (54H)	4	11740 (54)	2			
61148		2/0-4/0	4/0																	
61156	1¾	—	250	½	White	—	—	13473 (White)	13476 (White)	4	13465 (White)	4	2	15534 (66)	2	11742 (66H)	4			
61162		#4-300	300																	
61165	1¾	250-350	350	½	Brown	—	—	13478 (Brown)	13478 (Brown)	4	13468 (Brown)	4	2	15506 (87H)	2	11746 (87H)	2			
61171		2/0-500	500																	
61178	1½	500-750	750	5/8	Black	—	—	—	—	—	—	—	2	15515 (106H)	2	11749 (106H)	2			

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

\*TBM8-750M-1 AND TBM8-750M only.

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tnb.ca.abb.com (Canada)  
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