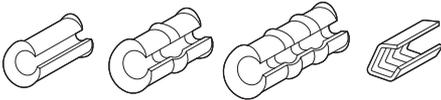


INSTRUCTION SHEET

Compression Connectors, standard C-Tap

Compression taps for 600 V applications

Color-Keyed®



Important

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



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:

- Made of high conductivity copper.
- UL and CSA listed for copper cables - 600V applications
- UL listed for direct burial
- Each C-Tap contains a range of conductor sizes.
- Color coded to assist in the matching of installing die and connector.

Installation instructions:

1. Strip the insulation (Figure 1) from cable to length specified in table (on reverse side) taking care not to nick cable strands.
2. Clean cable end with wire brush or emery cloth.
3. Table 1 on reverse side specifies information on color coding, connector combinations and insulating methods.
4. Place C-Tap over main cable and branch cable. See Figure 2 for typical applications.
5. Orient and compress C-Tap with appropriate color coded dies, see Figure 3 and Table 2 & 3 on reverse side. **⚠ Caution: Use of improper installing die may result in a malfunctioning connection.**
6. After crimping, remove all sharp edges, flash or burrs.
7. Special bonding and grounding application:
 - To connect #6 AWG flat bonding ribbon to 1/0 stranded cable, place the flat bonding ribbon over the back wall of C-Tap 54740 as shown in figure 8 (on reverse side) and position the 1/0 cable over the ribbon. Apply three crimps with TBM5S or TBM55RS.

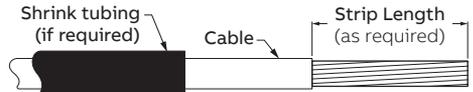


Figure 1

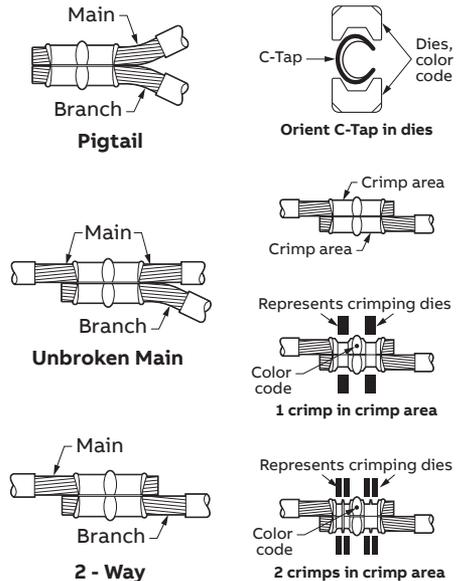


Figure 2
Typical applications

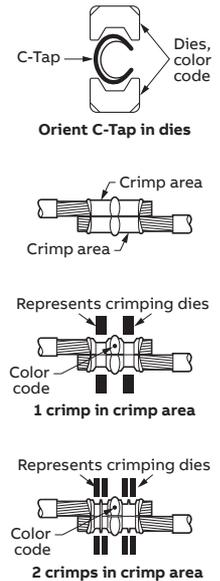


Figure 3
Crimping area

Table 1
Color coding, connector combinations and insulating methods

Product selection and dimensions - (inches)									
Part no.	Installing die color	Fig.	L (approx)	H (approx)	Installs wire combinations in circular mil area range ****			Insulation methods	
					Main	Branch	Shrink tubing	Adhesive	
54705	Red	7	5/16	5/16	12 14	14 16	HS12-6	AC4X3	
54710	Blue	4	5/16	7/16	10 8	10 12	HS12-6	AC4X3	
54715	Grey	4	5/16	5/8	6 8	10, 12 8, 10, or 12	HS12-6	AC4X3	
54720	Brown	5	15/32	11/16	4 or 5 6	8, 10, 12 6, 8	HS4-30	AC4X3	
54725	Green	5	15/32	13/16	3 4 or 5	6, 8, 10, 12 6, 5 ***	HS4-30	AC4X3	
54730	Pink	5	15/32	27/32	2 3 4	6, 8, 10, 12 5 3	HS4-30	AC4X3	
54735	Black	6	11/16	7/8	1 2 3	5, 6, 8, 10, 12 4, 5 3, 4	HS4-30	AC4X3	
54740	Orange	6	11/16	31/32	1/0 1 2	4, 5, 6, 8, 10, 12 3, 4 2, 3	HS4-30	AC4X3	
54745	Purple	6	11/16	11/16	2/0 1/0 1	3, 4, 5, 6, 8, 10, 12 2, 3 1, 2	HS4-30	AC4X3	
54750	Yellow	6	11/16	13/16	3/0 2/0 1/0	2, 3, 4, 5, 6, 8, 10, 12 1, 2 1/0, 1	HS4-30	AC4X3	
54740	Orange	8	11/16	31/32	1/0	6 AWG flat ribbon .375" x 0.05" tin plate	*	*	
54720	Brown	5	15/32	11/16	6 Solid	6 Sold*	**	**	

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

electrification.us.abb.com (US/LATAM)
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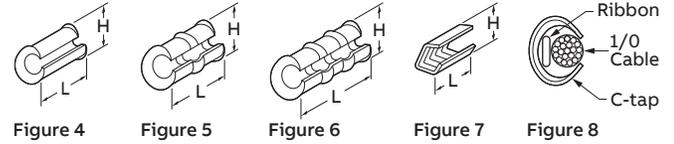


Figure 4 **Figure 5** **Figure 6** **Figure 7** **Figure 8**

* Special grounding & bonding application, see step 6 and Figure 8. UL listed only, Not CSA Certified
 ** For crimping tools TBM 5, TBM5S, TBM6, TBM6H, TBM6S, TBM20S, TBM21E, and TBM25S only (For grounding & bonding application only)
 *** When using 3 AWG on main & 12 AWG on branch with SMART® crimping tool & die, 12 AWG wire must be doubled (hair pinned) and placed on branch for crimping.
 **** For solid cable UL & CSA Listed up to and including 2 AWG
 NOTE: Some part numbers in table 2 have suffixes: i.e. XXXXXG (indicating special packaging). All crimp requirements for these parts are the same as for the base part numbers.

Table 2
Number of compressions in crimp area

Product selection		
Part no.	Part no. C-Taps	Crimp(s)
TBM20S	54705 thru 54720	2
TBM21E TBM25S	54705 thru 54725	2
TBM4S, TBM5, TBM5S, TBM6H TBM60RS, TBM8 TBM8S, TBM50S	54705 thru 54750	1
TBM6, TBM6S	54705 thru 54750	‡ 1

‡ TBM6D-1 die kit is required

Table 3
Connector and installing die

Product selection	
Part no. Connector	Part no. Installing die
54720	TBM8-750C20
54725 & 54730	TBM8-750C2530
54735 & 54740	TBM8-750C3540
54745 & 54750	TBM-750C4550



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