For Tape Shield, Wire-Over-Tape Shield and Longitudinally Corrugated (LC) Shield Cable

7663-S-HSG-8

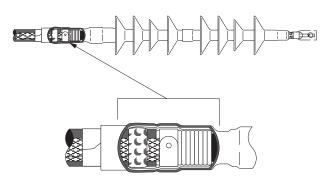
## Instructions

#### IEEE Std. No. 48

Class 1 Termination 35 kV Class 200 kV BIL

#### A CAUTION

Working around energized systems may cause serious injury or death. Installation should be performed by personnel familiar with good safety practice in handling electrical equipment. De-energize and ground all electrical systems before installing product.





#### 1.0 Kit Contents

1 High-K, Tracking Resistant, Silicone Rubber Termination

1 High-Ampacity Ground Braid

1 Constant Force Spring

2 Strips Scotch® Mastic Strip 2230 (black with white release liners, bagged)

1 3M EMI Copper Foil Shielding Tape 1181 Strip, 1/2" x 10"

1 Instruction Sheet

NOTE: Do not use knives to open plastic bags.

### **Kit Selection Tables**

NOTE: Final Determination Factor is cable insulation diameter.

For Use With Compression Lugs or Connectors									
Kit Number	Primary Kit NumberPrimary Insulation 0.D.Jacket 0.D. PangeConductor Size Range (AWG & kcmil)								
	Range	Range	5 kV	8 kV	15 kV	25/28 kV	35 kV		
7663-S- HSG-8	0.72" – 1.29" (18,3 – 32,8 mm)	1.04" - 1.60" (26,4 - 40,6 mm)	300 - 500	250 – 500 —	2/0 - 300 (70 - 150 mm²)	2 - 4/0 (35 - 120 mm²)	2 - 2/0 (35 - 70 mm²)		

Table 1

	For Use With 3M™ Mechanical Shearbolt Lugs QL2 Series: Two Hole										
Kit Number	Primary Insula- tion O.D. Range			Conductor Size Range (AWG & kcmil) 25/28 kV	Conductor Size Range (AWG & kcmil) 35 kV	3M™ Mechanical Shearbolt Lugs QL2 Series: Two Hole Part Number					
7663-S- HSG-8	0.72" – 1.29" (18,3 – 32,8 mm)	1.04" - 1.60" (26,4 - 40,6 mm)	2/0 – 250 (70 – 150 mm²)	2 - 4/0 (35 - 120 mm²)	1/0 – 2/0 (60 mm²)	QL2-A-2-250					

Table 2

#### 2.0 Prepare Cable

- 2.1 Check to be sure cable size fits within kit range as shown in Table 1 (For Use With Compression Lugs or Connectors), or Table 2 (For Use With 3M Mechanical Shearbolt Lugs QL2 Series: Two Hole).
- 2.2 Prepare cable using dimensions shown in Figure 1. BE SURE TO ALLOW FOR DEPTH OF TERMINAL LUG OR CONNECTOR.

a) **For Tape Shield Cable**: If necessary to prevent tape shield from unrolling, hold down edge with a single wrap of 3M EMI Copper Foil Shielding Tape 1181.

b) For Tape-Over Wire Shield Cable: Refer to Step 2.3 for shield wire preparation.

c) If using 3M Shearbolt Lugs QL2 Series: Two Hole, or 3M Mechanical Shearbolt Connector QCI Series, proceed to Step 2.4.

d) If using a Crimp Type (Compression) lug, measure the depth of the barrel, or if using a Crimp Type (Compression) connector, measure to the barrel center stop/midpoint, and see the NOTE below in order to calculate the Insulation Removal Length. Table 5 can used to assist in calculating the total Jacket Removal Length when using a compression lug or connector.

NOTE: Provide additional exposed conductor distance to account for growth during crimping of ALUMINUM lugs or connectors as follows:

Growth Allowance									
Aluminum Lug and Connector Growth Allowance	2 - 350 1/4" (6 mm)	400 - 650 1/2" (13 mm)	750–1000 3/4" (19 mm)	1250 - 2000 Field determined					

Table 3

- 2.3 If preparing Wire-Over-Tape shield cable, prepare the shield wires as follows;
  - a) For 14 Gauge Conductor Size or Smaller:
    - Cut the shield wires to the same length as the metallic shield shown in Figure 1:  $1 \frac{1}{2}$  (38 mm).
    - After cutting shield wires, and completing the cable preparation, proceed to Step 4.0.
  - b) For 12 Gauge Conductor Size or Larger:
    - DO NOT cut the shield wires. Proceed to Step 3.0 for shield wire procedure and then continue instructions from there.

NOTE: It is imperative to remove all remnants of the semi-con layer, even if the semi-con layer comes off as one layer. There should not be any remaining black areas, or particles, on the cable insulation layer.

Kit Number	Insulation O.D. 15 kV AWG/kcmil		25/28 kV AWG/kcmil	35 kV AWG/kcmil	Semi-Con Cutback
7663-S-HSG-8	0.72" – 1.08"	2/0 – 4/0	2 – 2/0	2 – 1	13.5"
	(18.,3 – 27,4 mm)	(70–120 mm²)	(35–70 mm²)	(35 mm²)	(342,9 mm)
7005-5-050-0	0.88" – 1.29"	250 – 300	3/0 – 4/0	1/0 – 2/0	13.0"
	(22,3 – 32,8 mm)	(125 – 150 mm²)	(95 – 120 mm²)	(50 – 70 mm²)	(330,2 mm)

Table 4

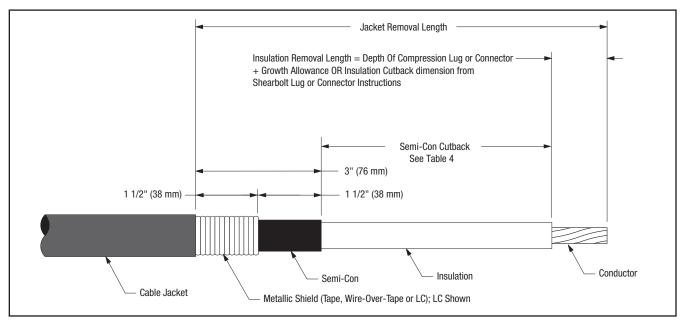


Figure 1

Jacket Removal Calculation Table - Tape, Wire-Over-Tape and Longitudinally Corrugated (LC) Shielded Cables - Crimp Type (Compression) Lugs / Connectors - 7663-S-HSG-8										
CABLE PREPARATION ITEM	Inches -Add this column-	mm -Add this column-	NOTES							
Insulation Length	See NOTES Column for this Value	See NOTES Column for this Value	Refer to Table 4; • If using the 13.5" (342,9 mm) Semi-con cutback, enter 16.5" (419,1 mm) in the Insulation Length box. • If using the 13.0" (330,2 mm) Semi-con cutback, enter 16.0" (406,4 mm) in the Insulation Length box.							
Insulation Removal Length = Depth of Crimp Type (Compression) Terminal Lug or Connector Barrel (See NOTES column.)	+	+	Measure full depth of bore for lugs and to the center stop for connectors.							
Growth Allowance (Aluminum Only) for Crimp Type (Compression) Lug / Connector (See NOTES column.)	+	+	See Table 3 for correct growth allowance. This measurement applies only to Aluminum lugs / connectors.							
TOTAL JACKET REMOVAL LENGTH	=	=								

Table 5

2.4 If using 3M Mechanical Shearbolt Lugs QL2 Series: Two Hole, or 3M Mechanical Shearbolt Connector QCI Series, refer to the Instructions that are packed with the Shearbolt product for the Insulation Cutback length for the specific Shearbolt Lug or Connector being used. Table 6 can used to assist in calculating the total Jacket Removal Length when using 3M Shearbolt Lugs QL2 Series: Two Hole, or 3M Shearbolt Connector QCI Series.

Jacket Removal Calculation Table - Tape, Wire-Over-Tape and Longitudinally Corrugated (LC) Shielded Cables - 3M™ Mechanical Shearbolt Lugs QL2 Series / 3M™ Mechanical Shearbolt Connectors QCI Series - 7663-S-HSG-8										
CABLE PREPARATION ITEM	Inches -Add this column-	mm -Add this column-	NOTES							
Insulation Length	See NOTES Column for this Value	See NOTES Column for this Value	Refer to Table 4; • If using the 13.5" (342,9 mm) Semi- con cutback, enter 16.5" (419,1 mm) in the Insulation Length box. • If using the 13.0" (330,2 mm) Semi- con cutback, enter 16.0" (406,4 mm) in the Insulation Length box.							
Insulation Removal Length= Depth of 3M <sup>™</sup> Mechanical Shearbolt Lugs QL2 Series: Two Hole Barrel or 3M <sup>™</sup> Mechanical Shearbolt Connectors QCI Series Barrel (See NOTES column.)	+	+	<ul> <li>Obtain Insulation Removal Length:</li> <li>For Mechanical Shearbolt Lugs see</li> <li>3M<sup>™</sup> Mechanical Shearbolt Lugs QL2 Series: Two Hole Instructions.</li> <li>For Mechanical Shearbolt Connectors see 3M<sup>™</sup> Mechanical Shearbolt Connectors QCI Series Instructions.</li> </ul>							
TOTAL JACKET REMOVAL LENGTH	=	=								

Table 6

#### 3.0 Wire-Over-Tape, 12 Gauge and Larger, Shield Wire Preparation

3.1 Select a Scotch® Mastic Strip 2230 from kit and remove white release liners. Using light tension, apply a **SINGLE WRAP** of Mastic around the cable jacket 1/4" (6 mm) from cut edge (Figure 2). Cut off excess.

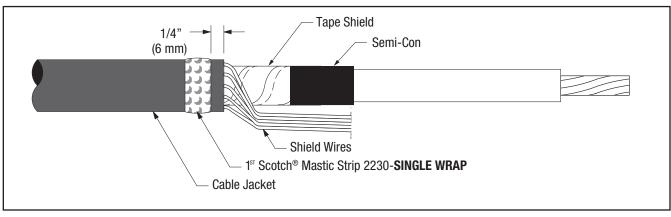


Figure 2

3.2 Bend shield wires back over applied sealing mastic and secure to cable jacket 4 1/2" (144 mm) from cable semi-con edge using vinyl tape (see Note and Figure 3).

NOTE: Position vinyl tape with care, it also serves as a marker for positioning the termination.

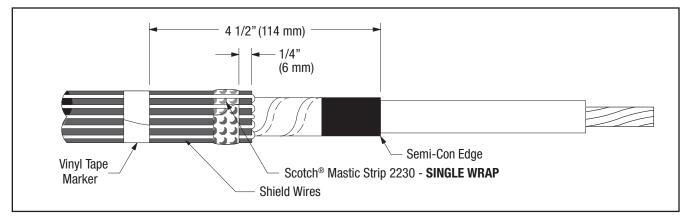
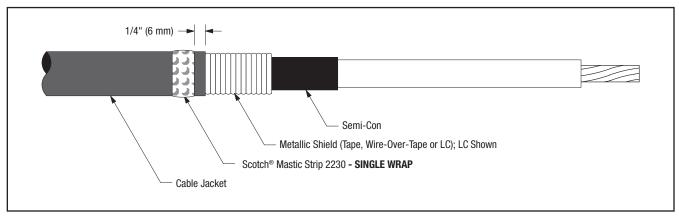


Figure 3

3.3 Proceed to Step 4.0.

#### 4.0 Install High-Ampacity Ground Braid

4.1 Select a Scotch<sup>®</sup> Mastic Strip 2230 from kit and remove white release liners. Using light tension, apply a SINGLE WRAP of mastic around the cable jacket 1/4" (6 mm) from cut edge (Figure 4). If a Scotch<sup>®</sup> Mastic Strip 2230 was previously applied under 12 gauge, or larger, shield wires on Wire-Over-Tape shield cable, then apply this SINGLE WRAP of Scotch<sup>®</sup> Mastic Strip 2230 directly over the first mastic wrap and over the shield wires. Cut off excess.





4.2 Position pre-formed high-amp ground braid with the "U" section over the metallic shield directly adjacent to cable jacket cut edge. PLEASE NOTE: The ground braid needs to make full contact with the metallic shield. Position one tail of ground braid, extending over cable jacket with solder block over mastic strip applied in Step 4.1 (Figure 5). Secure high-amp ground braid to cable jacket 4.5" (114 mm) from cable semi-con edge using vinyl tape. Apply tape directly over previously applied marker tape if it was applied for Tape-Over-Wire cable shield wires (See Note and Figure 5).

NOTE: Position vinyl tape with care, it also serves as a marker for positioning the termination. If a tape marker was previously placed on the cable jacket in Step 3.2 (for Tape-Over-Wire shield cable with 12 gauge and larger shield wires) place this marker directly on top of the previously applied marker tape.

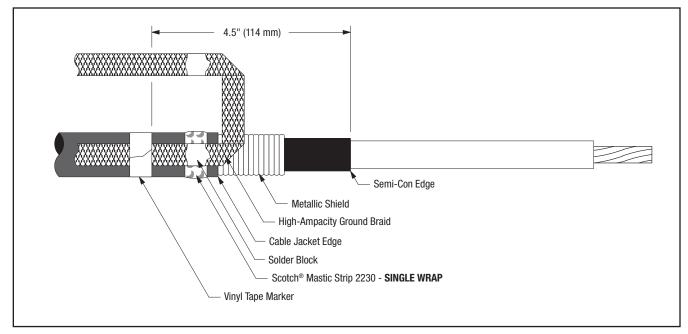


Figure 5

- 4.3 Wrap the high-amp ground braid around the metallic cable shield and secure in place with constant force spring. Cinch (tighten) the spring after wrapping the final turn. Position the high-amp ground braid tail (with solder block over mastic strip) over the cable jacket and parallel to the first ground braid tail (Figure 6).
- 4.4 Select Scotch<sup>®</sup> Mastic Strip 2230 from kit and remove white release liners. Apply a SINGLE WRAP of mastic over solder block on high-amp ground braid and previously applied mastic. If high-amp ground braids overlap on cable jacket be sure to apply mastic between the solder blocks of the high-amp ground braids. Secure ground braid to cable jacket 4.5" (114 mm) from cable semi-con edge using vinyl tape. Apply tape directly over previously applied marker tape (Figure 6).

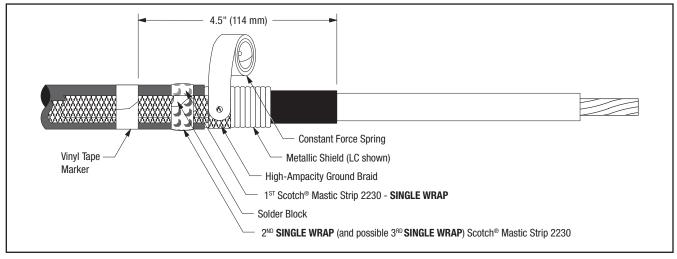


Figure 6

4.5 Wrap two highly stretched half-lapped layers of electrical grade vinyl tape around mastic seal strips, constant force spring and exposed metallic shield (Figure 7). Be sure to cover all exposed mastic.

NOTE: Take care not to cover exposed semi-con insulation shield. A minimum of 1" (25 mm) must be exposed.

NOTE: DO NOT completely cover the ground braid and, if applicable, Wire-Over-Tape shield wires, with electrical grade vinyl tape when applying over the Scotch<sup>®</sup> Mastic Strip 2230 per Step 4.5. LEAVE AT LEAST 1" (25 MM) OF EXPOSED GROUND BRAID AND, IF APPLICABLE, WIRE-OVER-TAPE SHIELD WIRES, between the Vinyl Tape Marker applied in step 4.2 and the start of the two half-lapped layers of electrical grade vinyl tape covering the Scotch<sup>®</sup> Mastic Strip 2230 applied in Step 4.5.

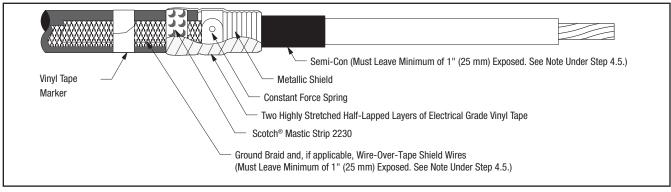


Figure 7

4.6 See Figure 8 for a Cross Section View of Completed Mastic, Grounding and Vinyl Tape Layers.

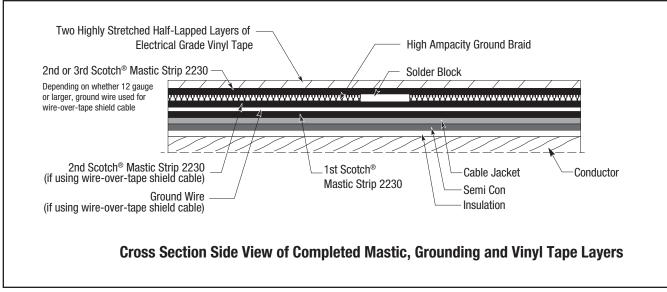


Figure 8

#### 5.0 Install Lug or Connector

Important Packaging Notice

In order to make sure that you receive an undamaged termination, this 3M Cold Shrink QT-III Silicone Rubber Termination is packed with a RED SHIPPING CORE inside of the white core. Please remove the red shipping core BEFORE you install the termination. This shipping core can be recycled with other polypropylene waste.

5.1 Check to insure 3M Cold Shrink QT-III Silicone Rubber Termination assembly fits over the selected lug or connector BEFORE installing the lug or connector. If lug or connector (Figure 9) will not fit through the termination core, clean the insulation (per Step 6.0) and slide termination on cable before installing lug or connector. DO NOT REMOVE CORE AT THIS TIME.

Clearance —
Connector/Lug

Figure 9

5.2 For 3M Compression Lugs and 3M Stem Connectors:

a. Refer to pages 10 - 12 for 3M Connector and Lug crimping information.

b. For Aluminum Conductors - Thoroughly wire brush conductor strands to remove aluminum oxide layer. Insert conductor into lug or connector and then remove conductor. This will transfer some of the antioxidant paste onto the conductor. Wire brush the antioxidant paste into the strands. Immediately insert conductor into lug or connector barrel as far as it will go.

#### NOTE: Die/crimper head rotation between consecutive crimps is RECOMMENDED.

c. Position connector or lug and crimp according to manufacturer's directions. Remove excess oxide inhibitor and sharp crimp flashings following crimping.

5.3 For 3M Mechanical Shearbolt Lugs QL2 Series: Two Hole or 3M Mechanical Shearbolt Connector QCI Series: a. Refer to the Instructions that are packed with the Shearbolt product for the installation procedures.

#### 6.0 Clean Cable Insulation and Lug or Connector Barrel Using Standard Practice

- 6.1 If abrasive must be used:
  - a. Use on insulation only. DO NOT USE ABRASIVE ON SEMI-CON INSULATION SHIELD!
  - b. Use ONLY aluminum oxide abrasive; grit 120 or finer.
  - c. Be careful not to reduce the cable insulation diameter below that allowed by the kit.
- 6.2 Wipe the cable insulation, and lug or connector, with an approved cable cleaner/solvent (such as 3M Cable Cleaning Solvent CC Series) AND ALLOW IT TO DRY BEFORE INSTALLING TERMINATION. A clean lint-free cloth, or inexpensive paper towel, can be used to dry the insulation surface if air drying time is of concern. DO NOT ALLOW SOLVENT TO TOUCH SEMI-CON INSULATION SHIELD!

#### 7.0 Install Termination

7.1 Slide the termination body onto the cable and remove core. Make sure the termination body (not the core) is butted up to the edge of the vinyl tape marker previously applied in Steps 4.2 and 4.4 (Figure 10). Pull the core while unwinding, counterclockwise, starting with the loose end (Figure 10). Be sure to alternate the pulling and unwinding actions (pull-unwind-pull-unwind-etc.) to help prevent the core material from binding up as the core is being removed.

# *NOTE:* Once the termination body makes contact over the mastic seal area, there is no need to continue supporting the assembly. DO NOT PUSH OR PULL ON THE TERMINATION ASSEMBLY WHILE UNWINDING THE CORE.

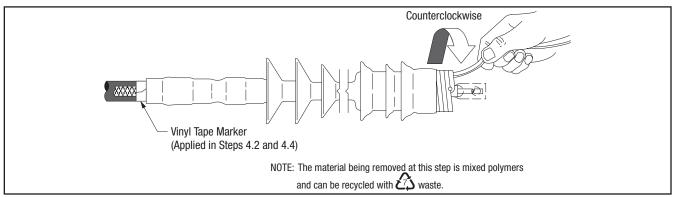
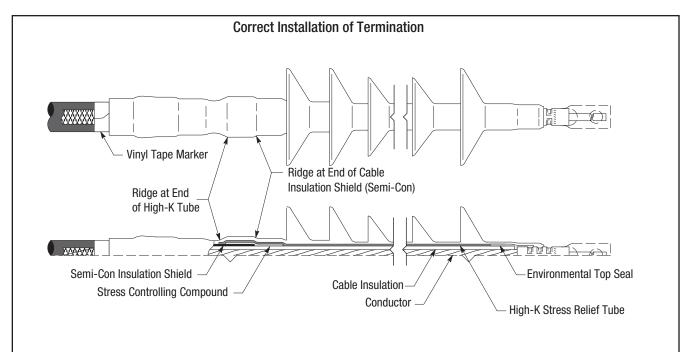


Figure 10

7.2 Connect ground braid to system ground according to standard practice.



### **Tooling Index**

			Lug and Crir	nping Inform	ation for 3M	<sup>™</sup> Scotchlok <sup>™</sup>	Copper Lugs			~
30014 thru 30045 One hole			$\bigcirc$		ru 31068 -long barrel			31145 thru 31178 Two hole — long barrel		
		3M™			Crimping To	ol-Die Sets (M	linimum Nun	nber Of Crimp	s)	
Cable Size AWG/	Stud Size	Scotchlok™ Copper Lug		Burndy Co	orporation		Thomas	& Betts Corp	oration	Square D Co Anderson Div
kcmil	(in.)	Number	MD6	MY29	Y34A	Y35, Y39, Y45*, Y46*	TBM 5	TBM 8	TBM 15	VC6–3, VC6–FT**
6	10 1/4 5/16	30014 30015 30016	_	6AWG(1)	_	U5CRT(1)	Blue(1)	Blue(1)	-	(1)
4	10 1/4 3/8	30018 30019 30021	W161(1)	4AWG(1)	A4CR(1)	U4CRT(1)	Grey(1)	Grey(1)	_	(1)
2	1/4 5/16 3/8	30022 30023 30024	W162(2)	2AWG(1)	A2CR(1)	U2CRT(2)	Brown(1)	Brown(1)	33(1)	(2)
1	5/16 3/8	30027 30028	-	1AWG(1)	A1CR(1)	U1CRT(2)	Green(1)	Green(1)	37(1)	(2)
1/0	5/16 3/8	30031 30032	W163(2)	1/0(1)	A25R(1)	U25RT(1)	Pink(2)	Pink(2)	42H(2)	(1)
2/0	3/8 3/8	30036 31036	W241(2) W241(3)	2/0(1) 2/0(2)	A26R(1) A26R(2)	U26RT(2) U26RT(3)	Black(2) Black(3)	Black(2) Black(3)	45(1) 45(2)	(1) (2)
3/0	1/2 1/2	30041 31041	W243(2) W243(3)	3/0(1) 3/0(2)	A27R(1) A27R(2)	U27RT(2) U27RT(3)	Orange(2) Orange(3)	Orange(2) Orange(3)	50(1) 50(2)	(2) (3)
4/0	1/2 1/2 1/2	30045 31045 31145	BG(3) BG(4) BG(4)	4/0(1) 4/0(2) 4/0(2)	A28R(2)	U28RT(2) U28RT(3) U28RT(3)	Purple(2) Purple(3) Purple(3)	Purple(2) Purple(3) Purple(3)	54H(2) 54H(3) 54H(3)	(2) (3) (3)
250	1/2 1/2	31049 31149	W166(4)	250(2)	A29R(2)	U29RT(3)	Yellow(2)	Yellow(2)	62(2)	(2)
300	1/2 1/2	31053 31153	-	-	A30R(2)	U30RT(3)	-	White(3)	66(3)	(3)
350	1/2 1/2	31056 31156	-	-	A31R(2)	U31RT(3)	_	Red(4)	71H(4)	-
400	1/2 1/2	31060 31160	-	-	A32R(2)	U32RT(3)	-	Blue(4)	76H(4)	-
500	1/2 5/8 1/2	31066 31067 31166	-	_	A34R(2)	U34RT(3)	-	Brown(4)	87H(4)	-
600	1/2 1/2	31068 31168	-	-	-	U36RT(3)	-	Green(4)	94H(4)	-
750	1/2	31172	_	_	_	Y39, Y45, Y46 U39RT(5)	_	_	106H(4)	_
1000	1/2	31178	-	-	_	Y45: S44RT(6) Y46: P44RT(6)	-	_	125H(4)	_

\* Y45 and Y46 accept all Y35 dies ("U" series). For Y45 use PT6515 adapter. For Y46 use PUADP adapter. \*\* Anderson VC6–3 and VC6–FT require no die set.

## **Tooling Index**

	Lug and Crimping Information for 3M <sup>™</sup> Scotchlok <sup>™</sup> Copper/Aluminum Lugs														
	40016 thru 40079 One hole							40132 thru 40178 Two hole							
હ		W				Crimpin	ıg Tool-I	Die Sets (	(Minimur	n Numb	er Of Crir	nps)			
Cable Size AWG/ kcmil	Stud Size (in.)	3M <sup>™</sup> Scotchlok <sup>™</sup> Lug Number		Bur	ndy Corpora	ition		Thor	nas & Bet	ts Corpor	ation	Square Anderso		ITT Blackburn Co.	Kearny Nat'l Div.
Cabl	Stu	3M™ Lu	MD6	MY29	Y34A	Y35, Y39, Y45*, Y46*	Y1000**	TBM 5	TBM 8	TBM 12	TBM 15	VC6–3** VC6–FT**	VC8C**	0D58	TYPE O
6	5/16	40016	W161(1)	6AWG(1)	A6CAB(1)	U6CABT(1)	(1)	Grey(1)	Grey(1)	-	29(1)	(1)	-	BY19(3)	J(3)
4	5/16	40020	W162(3)	4AWG(1)	A4CAB(1)	U4CABT(1)	(1)	Green(2)	Green(2)	-	37(1)	(1)	-	BY53(3)	P(3)
2	3/8 1/2	40024 40025	W163(3) W163(3)	2AWG(1) 2AWG(1)	A2CAB(1) A2CAB(1)	U2CABT(1) U2CABT(1)	(1) (1)	Pink(2) Pink(2)	Pink(2) Pink(2)	-	42H(2) 42H(2)	(1) (1)	-	BY23(3) BY23(3)	1/2(3) 1/2(3)
1	3/8 1/2	40028 40029	W163(3) W163(3)	1AWG(1) 1AWG(1)	A1CAR(1) A1CAR(1)	U1CART(1) U1CART(1)	(1) (1)	Gold(2) Gold(2)	Gold(2) Gold(2)	-	45(1) 45(1)	(1) (1)	-	BY23(3) BY23(3)	1/2(3) 1/2(3)
1/0	3/8 1/2 3/8	40032 40033 40132	W241(3) W241(3) W241(3)	1/0(1) 1/0(1) 1/0(1)	A25AR(1) A25AR(1) A25AR(1)	U25ART(1) U25ART(1) U25ART(1)	(1) (1) (1)	Tan(2) Tan(2) Tan(2)	Tan(2) Tan(2) Tan(2)	_	50(1) 50(1) 50(1)	(1) (1) (1)	_	BY25(3) BY25(3) BY25(3)	5/8–1(3) 5/8–1(3) 5/8–1(3)
2/0	1/2 1/2	40037 40137	BG(4) BG(4)	2/0(1) 2/0(1)	A26AR(2) A26AR(2)	U26ART(2) U26ART(2)	(1) (1)	Olive(2) Olive(2)	Olive(2) Olive(2)	-	54H(2) 54H(2)	(2) (2)	_	BY31C(3) BY31C(3)	5/8–1(3) 5/8–1(3)
3/0	1/2 1/2	40041 40141	W166(4) W166(4)	3/0(1) 3/0(1)	A27AR(2) A27AR(2)	U27ART(2) U27ART(2)	(1) (1)	Ruby(2) Ruby(2)	Ruby(2) Ruby(2)	-	60(2) 60(2)	(2) (2)	-	_	737(3) 737(3)
4/0	1/2 5/8 1/2	40045 40046 40145	W660(4) W660(4) W660(4)	4/0 (2) 4/0 (2) 4/0 (2)	A28AR(2) A28AR(2) A28AR(2)	U28ART(2) U28ART(2) U28ART(2)	(1) (1) (1)	_	White(4) White(4) White(4)	_	66(4) 66(4) 66(4)	(2) (2) (2)	_	BY35C(4) BY35C(4) BY35C(4)	840(4) 840(4) 840(4)
250	1/2 5/8 1/2	40049 40050 40149	W249(3) W249(3) W249(3)	-	A29AR(2) A29AR(2) A29AR(2)	U29ART(2) U29ART(2) U29ART(2)	(1) (1) (1)	_	-	71H(4) 71H(4) 71H(4)	71H(2) 71H(2) 71H(2)	(3) (3) (3)	_	_	-
300	1/2 1/2	40053 40153	-	-	A30AR(2) A30AR(2)	U30ART(2) U30ART(2)	(1) (1)	-	-	76H(4) 76H(4)	76H(2) 76H(2)	(3) (3)	_	-	-
350	1/2 5/8 1/2	40056 40057 40156	-	-	-	U31ART(2) U31ART(2) U31ART(2)	(1) (1) (1)	-	-	87H(4) 87H(4) 87H(4)	87H(3) 87H(3) 87H(3)	(3) (3) (3)	-	-	-
400	1/2	40160	-	-	-	U32ART(4)	(1)	-	-	94H(4)	94H(4)	-	(2)	-	-
500	5/8 1/2	40067 40166	-	-	-	U34ART(4) U34ART(4)	(1) (1)	-	_	106H(4) 106H(4)	106H(3) 106H(3)	-	(2) (2)	-	-
600	1/2	40170	-	-	-	U36ART(4)	(1)	-	_	-	115H(3)	-	(3)	-	-
750	5/8 1/2	40073 40172	-	_	_	U39ART(4) U39ART(4)	(1) (1)	_	_	_	125H(4) 125H(4)	_	(3) (3)	_	_
1000	5/8 1/2	40079 40178	-	-	-	S44ART(4) S44ART(4)	(1) (1)	-	-	-	140H(4) 140H(4)	-	(3) (3)	-	-

\* Y45 and Y46 accept all Y35 dies ("U" series). For Y45 use PT6515 adapter. For Y46 use PUADP adapter.

\*\* Anderson VC6–3, VC6–FT, VC8C and Burndy Y1000 require no die set.

#### **Tooling Index**

3		nformation for Connectors uminum			,		0			
Conductor Size AWG & kcmil 3M™ Connector			Crimping Table For 3M <sup>™</sup> Stem Type Connector Recommended Crimping Tools							
Stranded	Solid	Number	Manufacturer	Mech. Tool	Die (Minimum No. Crimps)	Hydraulic	Die (Minimum No. Crimps)			
		, 1/0 SC0001 2 SC0002	Burndy	MD6	BG(4), W241(3)	Y35, Y39, Y45*, Y46*	U25ART(2), U243(2)			
2, 1	1, 1/0		Kearny	0–51, 0–52	5/8-1 (4)	WH-1, WH-2	5/8-1(4)			
4	2		SC0002	SC0002	T & B	TBM 5	Tan(2)	-	-	
1/0	2/0	2/0	SC0010	T & B	TBM 8	Olive(2), Tan(2)	TBM 15	50(2)		
			Anderson	-	-	VC6**	(2)			
			Burndy	MD6	W249(3)	Y35, Y39, Y45*, Y46*	U28ART(2)			
2/0 3/0	3/0 4/0	SC0020	Kearny	0–51, 0–52	840(5)	WH-1, WH-2	840(2)			
3/0 4/0	4/0	SC0030 SC0040	T & B	TBM 8	Red(4)	TBM 15	71H(3)			
			Anderson	-	-	VC6**	(2)			

\* Y45 and Y46 accept all Y35 dies ("U" series). For Y45 use PT6515 adapter. For Y46 use PUADP adapter.

\*\* Anderson VC6 is dieless and does not require a die set.

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**Electrical Markets Division** 

6801 River Place Blvd. Austin, TX 78726-9000 800.245.3573 Fax 800.245.0329 www.3M.com/electrical

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