



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



3M™ Scotchcast™ Multi-Mold Splicing Kit 85-14CP for Cathodic Protection

Instructions

1.0 Applications:

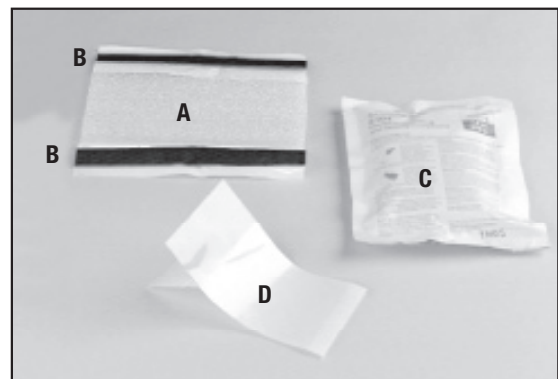
Designed for insulating and sealing cables rated up to a maximum of 1000 volts. These kits will accommodate the following connectors and conductor sizes:

Kit No.	Connector Type	Maximum Conductor Size*	Max. Connector Size (height plus width)	Max. Sheath Opening	Max. Cable O.D.* Wye or 4-Way
85-14CP	Split Bolt H & C Tap Compression	2/0 Stranded AWG 4/0 Stranded AWG	3 1/4"	6 1/2"	Run & Tap – 7/8"

* Assuming wye or 4-way connection using same cable sizes. For other information and configurations, see back of instruction sheet.

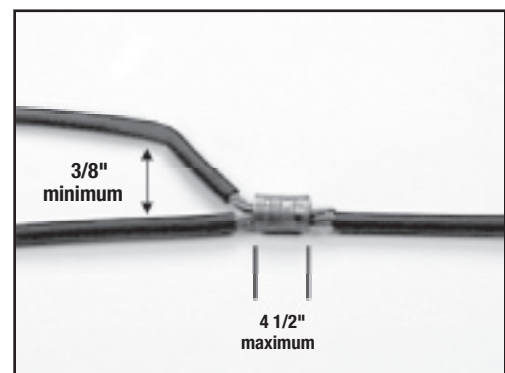
2.0 Kit Contents:

Mold Body.....	A
Sealing Mastic (attached to mold body)	B
3M™ Scotchcast™ Electrical Insulating Resin 4.....	C
Adhesive Film Strip.....	D



3.0 Cable Connection for Horizontal Run

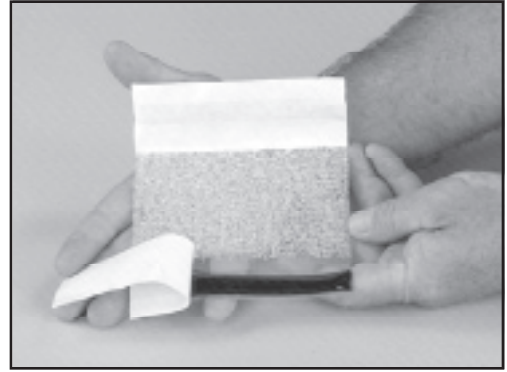
- 3.1 **Prepare Cable.** Scrape each cable exterior clean for a distance of 5". If cable is sheathed, pencil insulation 3/4".
- 3.2 **Make Connection.** Make connection according to connector manufacturer's instructions. Crimped connector length should not be more than 4 1/2".
- 3.3 **Train Cables.** Place cables in a horizontal position. Spread legs of cable so there will be 3/8" space between cables to allow for sealing around each cable with mastic sealing strips.



CAUTION

Working around energized electrical 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.

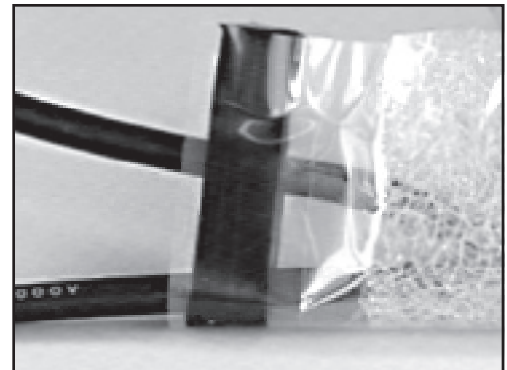
- 3.4 **Prepare Mold Body.** Remove liners from sealing mastic on mold body.



- 3.5 **Position Mold Body Around Splice.** Center mold body along connector. Wrap mold body around connection.



- 3.6 **Seal Film.** Seal film together between spacer pad and mastic.

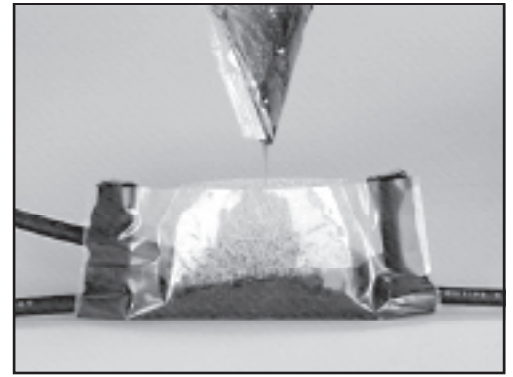


- 3.7 **Seal Mold.** Starting at bottom of mold, seal and compress sealing mastic around and between each cable to form a resin tight seal.

Note: Compress the sealing mastic around and between each cable with thumbs as shown.



- 3.8 **Level Splice.** Ensure that top of mold is level. If support is needed, support the cable outside of the cable splice area.
- 3.9 **Pour Splice.** Mix resin per instructions on resign package. Pour into mold.



- 3.10 **Seal Top of Mold.** Remove liner from adhesive film strip supplied with kit. Tape it over the mold leaving a loop over mold opening.



- 3.11 Starting at top of looped film strip proceeding downward, seal the loop together until top of mold is closed and the resin fills the mold completely.

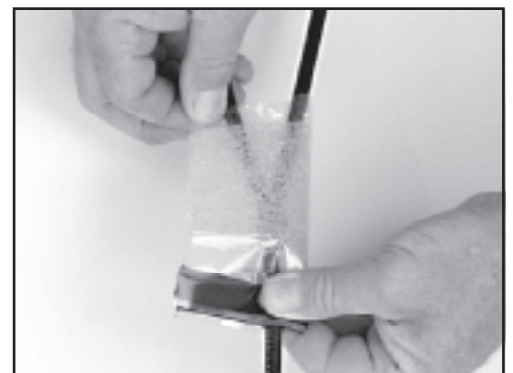
NOTE: DO NOT MOVE CABLES OR SPLICE UNTIL RESIN HAS COMPLETELY HARDENED.



4.0 Cable Connection for Vertical Run

- 4.1 Prepare cables in the same manner as steps 3.1 and 3.2.
- 4.2 Cut off one sealing mastic strip.
- 4.3 Remove liner from sealing mastic strip on mold. Center mold on connector, extending mold 2" above connector.
- 4.4 Wrap mold around connector and seal mold. Form and compress sealing mastic strip around and between each cable to make a resin tight seal.

Note: Compress the sealing mastic strip around the cables with the thumb as shown in step 3.7.



4.5 Remove liner from adhesive film strip supplied with kit.

4.6 Seal the open side of mold. Bring the mold's edges together, fold over and compress the adhesive film strip. Be sure the seal is complete.



4.7 Mix the resin per instructions on resin package. Pour into mold.

NOTE: DO NOT MOVE CABLES OR SPLICE UNTIL RESIN HAS COMPLETELY HARDENED.



5.0 Other Installation Hints

5.1 The 3M™ Scotchcast™ Multi-Mold Splicing Kits 85-14CP can insulate a variety of cathodic protection connections. These instructions show only a typical tap splice. Some general rules for insulating multiple splice configurations follow.

5.2 **For Multiple Tap Connections.** Follow the same procedures in these instructions. The number of taps the multi-mode kit can handle will depend on the connector and the size of the cables being spliced. The following guidelines should be used:

- a) In making horizontal splices, cables should be brought out of the splice from the sides (through the sealing mastic) and not out of the top of the splice. This will ensure the proper length of cable to be sealed in resin.
- b) Resin coverage along cable sheath or jacket must be a minimum of 1" for a proper moisture seal.
- c) The sealing mastic must surround each cable to ensure a resin tight seal.
- d) In making vertical splices, cables can be brought out the top of the mold.

3M and Scotchcast are trademarks of 3M Company.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability

This product will be free from defects in material and manufacture at the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

3M

Electrical Markets Division

6801 River Place Blvd.
Austin, TX 78726-9000
800-245-3573
Fax 800-245-0329
www.3M.com/electrical

Please recycle. Printed in USA.
© 3M 2014. All rights reserved.
78-8124-4520-9 Rev D