



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



# Low Voltage Splices, 1000 V or less

For installations from 120 V to 1 kV, 3M offers several low voltage splice options, including 3M-developed cold shrink technology, heat shrink, resin and tape. 3M™ Low Voltage Splices are reliable in buried, overhead, indoor or outdoor applications.



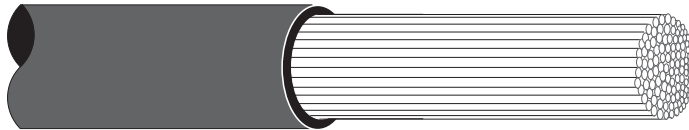
| <b>Section</b>                                                                           | <b>Page</b> |
|------------------------------------------------------------------------------------------|-------------|
| <b>3M™ Heat Shrink Splice Kits</b> .....                                                 | 149-152     |
| 3M™ Splice Kit UF .....                                                                  | 149         |
| 3M™ Airport Lighting Connector Sealing Kit .....                                         | 149         |
| 3M™ Heat Shrink Heavy-Wall Cable Sleeves ITCSN .....                                     | 150-152     |
| <b>3M™ Direct Bury Splice Kits</b> .....                                                 | 152-153     |
| 3M™ Direct Bury Splice Kit DBO/B-6.....                                                  | 152         |
| 3M™ Direct Bury Splice Kit DBR/Y-6 .....                                                 | 153         |
| <b>3M™ Resin Splice Kits</b> .....                                                       | 154-162     |
| 3M™ Scotchcast™ Inline Splice Kits, 72-N Series .....                                    | 154         |
| 3M™ Scotchcast™ Re-Enterable Signal and Control Cable Splice Kits 78-R Series.....       | 155         |
| 3M™ Scotchcast™ Multi-Mold Resin Splice Kits 85 Series .....                             | 156         |
| 3M™ Scotchcast™ Wye Resin Splice Kit 90-B1 .....                                         | 157         |
| 3M™ Scotchcast™ Flexible Power Cable Tap Splice Kit 82-BF1.....                          | 157         |
| 3M™ Scotchcast™ Inline Resin Power Cable Splice Kits 82-A Series.....                    | 158         |
| 3M™ Scotchcast™ Wye Resin Splice Kit 82-B1 .....                                         | 158         |
| 3M™ Scotchcast™ Flexible Power Cable Inline Splicing Kits 82-F Series.....               | 159         |
| 3M™ Scotchcast™ Flame-Retardant Compound 2131 .....                                      | 160         |
| 3M™ Scotchcast™ Potting Kit 2136 .....                                                   | 161         |
| 3M™ Resin Pressure System Components .....                                               | 162         |
| <b>3M™ Cold Shrink Splice Kits</b> .....                                                 | 163-171     |
| 3M™ Cold Shrink Connector Insulators 8420 and 8430 Series.....                           | 163-164     |
| 3M™ Cold Shrink Silicone Insulators 8440 Series (1000 Volts or less) .....               | 165         |
| 3M™ Cold Shrink Quick Insulator QI Series .....                                          | 166         |
| 3M™ Cold Shrink Quick Splice Low Voltage QSLV-M Series.....                              | 167         |
| 3M™ Cold Shrink Connector Insulator WF Series.....                                       | 168         |
| 3M™ Inline Splices for 3/C or 4/C Armored Power Cable (Teck-90) 5730 Series .....        | 169         |
| 3M™ Resin/Cold Shrink Non-Shielded, Armored or Non-Armored Splice Kits 5750 Series ..... | 170         |
| 3M™ Cold Shrink Portable Cable Splice Kits 2237A and 2238A.....                          | 171         |



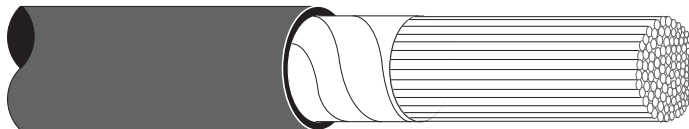
# Cable Types for Low Voltage Splicing



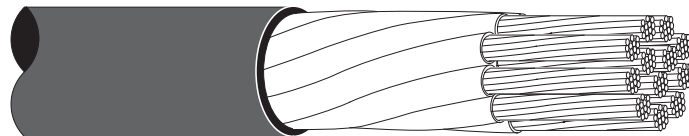
Single Conductor Cable



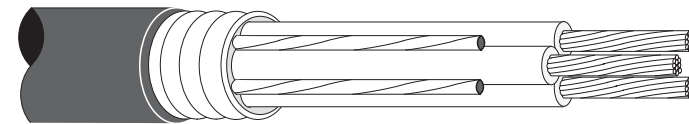
Multiple Conductor Unshielded Signal and Control Cable



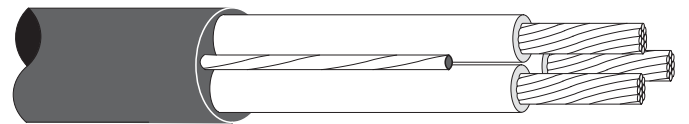
Multiple Conductor Shielded Signal and Control Cable



Multiple Conductor, to 1000 Volt, Cable



Three-Conductor Armored, Non Shielded Cable





Three-Conductor Non-Armored, Non Shielded Cable

## 3M™ Heat Shrink Splice Kits

### 3M™ Splice Kit UF

3M™ Splice Kit UF is designed to provide a reliable, moisture proof electrical connection for type UF-B underground feeder cable rated for 600 V (copper wire only) ranging from #14/3 without ground wire up to #8/3 with ground wire.

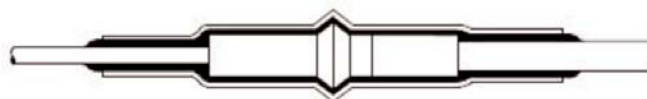
The UF splice kit consists of a connector-insulation assembly and a heat shrink tube. The connector assembly contains four cylindrical set screw connectors separated by a piece of vinyl insulation. The heat shrink tube is a heavy-wall, adhesive-lined tube. Underground Feeder (UF)-B cables are flat, and typically have three solid conductors without a ground or two solid conductors with a ground. They range in size from 14–8 AWG. The most common UF cable size is 14–10 AWG.

|                                    |                                                                                                          |
|------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Voltage Rating</b>              | 600 V (copper wire only)                                                                                 |
| <b>Number of Conductors</b>        | Single Conductor                                                                                         |
| <b>Cable/Shielding Type</b>        | Non-Shielded                                                                                             |
| <b>Splice Type</b>                 | Heat Shrink                                                                                              |
| <b>Operating Temperature Range</b> | -67°F to 230°F (-55°C to 110°C)                                                                          |
| <b>RoHS 2011/65/EU</b>             | Yes                                                                                                      |
| <b>Agency Approvals</b>            |  UL 486D listed E102356 |
| <b>Manufacturing Origin</b>        |                         |



| Order No.             | UPC          | Description                                                                                                                                                                                                                                                           | Conductor Size | Min. Order Qty. | Case Qty. |
|-----------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|-----------|
| UF1-Splice Kit-6 Kits | 054007-42920 | UF Splice Kit-Standard includes 1.8" (45,7 mm) length connector/ 8.0" (203,2 mm) length of heavy wall, adhesive lined heat shrink tube.                                                                                                                               | 14–8 AWG       | 6 kits          | 6 kits    |
| UF2-Splice Kit-6 Kits | 054007-42921 | UF Splice Kit-Stretcher offers an 11.5" (292,1 mm) length connector/ 20.0" (508,0 mm) length of heavy wall, adhesive lined heat shrink tube. The Stretcher Kit is used in situations where a 7–10" (17,8–25,4 cm) section of the cable has been damaged or destroyed. | 14–8 AWG       | 6 kits          | 6 kits    |

### 3M™ Airport Lighting Connector Sealing Kit



3M™ Airport Lighting Connector Sealing Kit IAL-3 is designed especially to meet the high demands on airport lighting connections. It meets specification for sealing FAA Specification L-823 connectors.

Kit Includes:

- ◆ Heat shrinkable sleeve
- ◆ Cleaning pad
- ◆ Instructions

RoHS 2011/65/EU Yes

| Order No. | UPC          | Sleeve Length  | Expanded/Recovered I.D.  | Case Qty.   |
|-----------|--------------|----------------|--------------------------|-------------|
| IAL-3     | 054007-08862 | 16" (406,4 mm) | 1.38/0.38" (35,1/9,7 mm) | 30 kit/case |

## 3M™ Heat Shrink Splice Kits

### 3M™ Heat Shrink Heavy-Wall Cable Sleeves ITCSN

The 3M™ Heat Shrink Heavy-Wall Cable Sleeves ITCSN are designed to provide reliable performance for electrical splices, connections and terminations, as well as mechanical and environmental protection. ITCSN heavy-wall cable sleeves are cross-linked polyolefin. They are highly split resistant and fast shrinking to provide rapid installation. The cut-to-length sleeves come standard with a factory-applied adhesive/sealant. Order any of several packaging choices or look for the counter merchandiser assortment at a 3M authorized distributor.

|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| <b>Voltage Rating</b>        | UL Rated to 600 V<br>3M Internal Test Rated to 1 kV |
| <b>Material</b>              | Polyolefin                                          |
| <b>Shrink Ratio</b>          | 3:1                                                 |
| <b>Operating Temperature</b> | -67°F to 230°F<br>(-55°C to 110°C)                  |
| <b>Flame Retardant</b>       | No                                                  |
| <b>RoHS 2011/65/EU</b>       | Yes                                                 |

Agency Approvals



Manufacturing Origin



| Order No.                       | UPC          | Cable Size | Length         | Expanded/Recovered I.D.      | UL Spec. | Adhesive Included | Direct Bury | Case Qty.       |
|---------------------------------|--------------|------------|----------------|------------------------------|----------|-------------------|-------------|-----------------|
| ITCSN-0400-6"-Black-25 Pcs      | 054007-08887 | 12-6 AWG   | 6" (152,4 mm)  | 0.40"/0.15"<br>(10,2/3,8 mm) | UL 486D  | Yes               | Yes         | 25              |
| ITCSN-0400-6"-Black-100 Pcs     | 054007-08963 | 12-6 AWG   | 6" (152,4 mm)  | 0.40"/0.15"<br>(10,2/3,8 mm) | UL 486D  | Yes               | Yes         | 100             |
| ITCSN-0400-6"-Black-12-3 Pc Pks | 051128-60075 | 12-6 AWG   | 6" (152,4 mm)  | 0.40"/0.15"<br>(10,2/3,8 mm) | UL 486D  | Yes               | Yes         | 3/pk,<br>12 pks |
| ITCSN-0400-6"-Red-12-3 Pc Pks   | 051128-60076 | 12-6 AWG   | 6" (152,4 mm)  | 0.40"/0.15"<br>(10,2/3,8 mm) | N/A      | Yes               | No          | 3/pk,<br>12 pks |
| ITCSN-0400-48"-Black-5 Pcs      | 054007-08902 | 12-6 AWG   | 48" (1,22 m)   | 0.40"/0.15"<br>(10,2/3,8 mm) | UL 486D  | Yes               | Yes         | 5               |
| ITCSN-0400-48"-Black-20 Pcs     | 054007-08964 | 12-6 AWG   | 48" (1,22 m)   | 0.40"/0.15"<br>(10,2/3,8 mm) | UL 486D  | Yes               | Yes         | 20              |
| ITCSN-0400-25'-Black-Reel       | 054007-08886 | 12-6 AWG   | 25' (7,62 m)   | 0.40"/0.15"<br>(10,2/3,8 mm) | N/A      | No                | No          | 1               |
| ITCSN-0800-6"-Black-25 Pcs      | 054007-40067 | 8-1/0 AWG  | 6" (152,4 mm)  | 0.80"/0.20"<br>(20,3/5,1 mm) | UL 486D  | Yes               | Yes         | 25              |
| ITCSN-0800-6"-Black-100 Pcs     | 054007-08965 | 8-1/0 AWG  | 6" (152,4 mm)  | 0.80"/0.20"<br>(20,3/5,1 mm) | UL 486D  | Yes               | Yes         | 100             |
| ITCSN-0800-6"-Black-12-3 Pc Pks | 051128-60077 | 8-1/0 AWG  | 6" (152,4 mm)  | 0.80"/0.20"<br>(20,3/5,1 mm) | UL 486D  | Yes               | Yes         | 3/pk,<br>12 pks |
| ITCSN-0800-6"-Red-12-3 Pc Pks   | 051128-60078 | 8-1/0 AWG  | 6" (152,4 mm)  | 0.80"/0.20"<br>(20,3/5,1 mm) | N/A      | Yes               | No          | 3/pk,<br>12 pks |
| ITCSN-0800-9"-Black-25 Pcs      | 054007-08890 | 8-1/0 AWG  | 9" (228,6 mm)  | 0.80"/0.20"<br>(20,3/5,1 mm) | UL 486D  | Yes               | Yes         | 25              |
| ITCSN-0800-9"-Black-100 Pcs     | 054007-08966 | 8-1/0 AWG  | 9" (228,6 mm)  | 0.80"/0.20"<br>(20,3/5,1 mm) | UL 486D  | Yes               | Yes         | 100<br>pcs/cs   |
| ITCSN-0800-12"-Black-25 Pcs     | 054007-08889 | 8-1/0 AWG  | 12" (304,8 mm) | 0.80"/0.20"<br>(20,3/5,1 mm) | UL 486D  | Yes               | Yes         | 25<br>pcs/cs    |
| ITCSN-0800-12"-Black-100 Pcs    | 054007-08967 | 8-1/0 AWG  | 12" (304,8 mm) | 0.80"/0.20"<br>(20,3/5,1 mm) | UL 486D  | Yes               | Yes         | 100             |
| ITCSN-0800-48"-Black-5 Pcs      | 054007-08903 | 8-1/0 AWG  | 48" (1,22 m)   | 0.80"/0.20"<br>(20,3/5,1 mm) | UL 486D  | Yes               | Yes         | 5               |
| ITCSN-0800-48"-Black-20 Pcs     | 054007-08968 | 8-1/0 AWG  | 48" (1,22 m)   | 0.80"/0.20"<br>(20,3/5,1 mm) | UL 486D  | Yes               | Yes         | 20              |

Low Voltage Splices, 1000 V or less

3M™ Heat Shrink Splice Kits

3M™ Heat Shrink Heavy-Wall Cable Sleeves ITCSN (continued)

| Order No.                        | UPC          | Cable Size            | Length         | Expanded/Recovered I.D.       | UL Spec. | Adhesive Included | Direct Bury | Case Qty.       |
|----------------------------------|--------------|-----------------------|----------------|-------------------------------|----------|-------------------|-------------|-----------------|
| ITCSN-0800-48"-Red-20 Pcs        | 051128-55500 | 8-1/0 AWG             | 48" (1,22 m)   | 0.80"/0.20"<br>(20,3/5,1 mm)  | N/A      | Yes               | No          | 20              |
| ITCSN-0800-25'-Black-Reel        | 054007-08888 | 8-1/0 AWG             | 25' (7,62 m)   | 0.80"/0.20"<br>(20,3/5,1 mm)  | N/A      | No                | No          | 1               |
| ITCSN-1100-6"-Black-25 Pcs       | 054007-08894 | 2-4/0 AWG             | 6" (152,4 mm)  | 1.10"/0.37"<br>(27,9/9,4 mm)  | UL 486D  | Yes               | Yes         | 25              |
| ITCSN-1100-6"-Black-100 Pcs      | 054007-08969 | 2-4/0 AWG             | 6" (152,4 mm)  | 1.10"/0.37"<br>(27,9/9,4 mm)  | UL 486D  | Yes               | Yes         | 100             |
| ITCSN-1100-9"-Black-25 Pcs       | 054007-08893 | 2-4/0 AWG             | 9" (228,6 mm)  | 1.10"/0.37"<br>(27,9/9,4 mm)  | UL 486D  | Yes               | Yes         | 25              |
| ITCSN-1100-9"-Black-100 Pcs      | 054007-08970 | 2-4/0 AWG             | 9" (228,6 mm)  | 1.10"/0.37"<br>(27,9/9,4 mm)  | UL 486D  | Yes               | Yes         | 100             |
| ITCSN-1100-9"-Black-12-3 Pc Pks  | 051128-60079 | 2-4/0 AWG             | 9" (228,6 mm)  | 1.10"/0.37"<br>(27,9/9,4 mm)  | UL 486D  | Yes               | Yes         | 3/pk,<br>12 pks |
| ITCSN-1100-9"-Red-12-3 Pc Pks    | 051128-60080 | 2-4/0 AWG             | 9" (228,6 mm)  | 1.10"/0.37"<br>(27,9/9,4 mm)  | N/A      | Yes               | No          | 3/pk,<br>12 pks |
| ITCSN-1100-12"-Black-10 Pcs      | 054007-08892 | 2-4/0 AWG             | 12" (304,8 mm) | 1.10"/0.37"<br>(27,9/9,4 mm)  | UL 486D  | Yes               | Yes         | 10              |
| ITCSN-1100-12"-Black-100 Pcs     | 054007-08971 | 2-4/0 AWG             | 12" (304,8 mm) | 1.10"/0.37"<br>(27,9/9,4 mm)  | UL 486D  | Yes               | Yes         | 100             |
| ITCSN-1100-48"-Black-5 Pcs       | 054007-08904 | 2-4/0 AWG             | 48" (1,22 m)   | 1.10"/0.37"<br>(27,9/9,4 mm)  | UL 486D  | Yes               | Yes         | 5               |
| ITCSN-1100-48"-Black-20 Pcs      | 054007-08972 | 2-4/0 AWG             | 48" (1,22 m)   | 1.10"/0.37"<br>(27,9/9,4 mm)  | UL 486D  | Yes               | Yes         | 20              |
| ITCSN-1100-25'-Black-Reel        | 054007-08891 | 2-4/0 AWG             | 25' (7,62 m)   | 1.10"/0.37"<br>(27,9/9,4 mm)  | N/A      | No                | No          | 1               |
| ITCSN-1500-9"-Black-10 Pcs       | 054007-08897 | 3/0 AWG-<br>400 kcmil | 9" (228,6 mm)  | 1.50"/0.50"<br>(38,1/12,7 mm) | UL 486D  | Yes               | Yes         | 10              |
| ITCSN-1500-9"-Black-50 Pcs       | 054007-08973 | 3/0 AWG-<br>400 kcmil | 9" (228,6 mm)  | 1.50"/0.50"<br>(38,1/12,7 mm) | UL 486D  | Yes               | Yes         | 50              |
| ITCSN-1500-9"-Black-12-3 Pc Pks  | 051128-60081 | 3/0 AWG-<br>450 kcmil | 9" (228,6 mm)  | 1.50"/0.50"<br>(38,1/12,7 mm) | UL 486D  | Yes               | Yes         | 3/pk,<br>12 pks |
| ITCSN-1500-12"-Black-10 Pcs      | 054007-08896 | 3/0 AWG-<br>400 kcmil | 12" (304,8 mm) | 1.50"/0.50"<br>(38,1/12,7 mm) | UL 486D  | Yes               | Yes         | 10              |
| ITCSN-1500-12"-Black-50 Pcs      | 054007-08974 | 3/0 AWG-<br>400 kcmil | 12" (304,8 mm) | 1.50"/0.50"<br>(38,1/12,7 mm) | UL 486D  | Yes               | Yes         | 50              |
| ITCSN-1500-48"-Black-5 Pcs       | 054007-08905 | 3/0 AWG-<br>400 kcmil | 48" (1,22 m)   | 1.50"/0.50"<br>(38,1/12,7 mm) | UL 486D  | Yes               | Yes         | 5               |
| ITCSN-1500-48"-Black-20 Pcs      | 054007-08975 | 3/0 AWG-<br>400 kcmil | 48" (1,22 m)   | 1.50"/0.50"<br>(38,1/12,7 mm) | UL 486D  | Yes               | Yes         | 20              |
| ITCSN-1500-25'-Black-Reel        | 054007-08895 | 3/0 AWG-<br>450 kcmil | 25' (7,62 m)   | 1.50"/0.50"<br>(38,1/12,7 mm) | N/A      | No                | No          | 1               |
| ITCSN-2000-9"-Black-10 Pcs       | 054007-08900 | 250-750 kcmil         | 9" (228,6 mm)  | 2.00"/0.65"<br>(50,8/16,5 mm) | UL 486D  | Yes               | Yes         | 10              |
| ITCSN-2000-9"-Black-50 Pcs       | 054007-08976 | 250-750 kcmil         | 9" (228,6 mm)  | 2.00"/0.65"<br>(50,8/16,5 mm) | UL 486D  | Yes               | Yes         | 50              |
| ITCSN-2000-12"-Black-10 Pcs      | 054007-08899 | 250-750 kcmil         | 12" (304,8 mm) | 2.00"/0.65"<br>(50,8/16,5 mm) | UL 486D  | Yes               | Yes         | 10              |
| ITCSN-2000-12"-Black-50 Pcs      | 054007-08977 | 250-750 kcmil         | 12" (304,8 mm) | 2.00"/0.65"<br>(50,8/16,5 mm) | UL 486D  | Yes               | Yes         | 50              |
| ITCSN-2000-12"-Black-12-3 Pc Pks | 051128-60082 | 250-750 kcmil         | 12" (304,8 mm) | 2.00"/0.65"<br>(50,8/16,5 mm) | UL 486D  | Yes               | Yes         | 3/pk,<br>12 pks |
| ITCSN-2000-48"-Black-5 Pcs       | 054007-08906 | 250-750 kcmil         | 48" (1,22 m)   | 2.00"/0.65"<br>(50,8/16,5 mm) | UL 486D  | Yes               | Yes         | 5               |
| ITCSN-2000-48"-Black-20 Pcs      | 054007-08978 | 250-750 kcmil         | 48" (1,22 m)   | 2.00"/0.65"<br>(50,8/16,5 mm) | UL 486D  | Yes               | Yes         | 20              |

Low Voltage Splices, 1000 V or less

## 3M™ Heat Shrink Splice Kits


### 3M™ Heat Shrink Heavy-Wall Cable Sleeves ITCSN (continued)

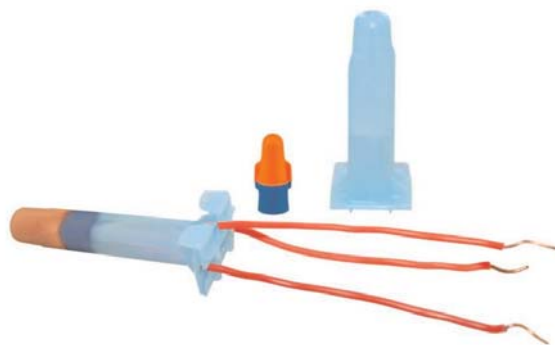
| Order No.                   | UPC          | Cable Size      | Length         | Expanded/Recovered I.D.        | UL Spec. | Adhesive Included | Direct Bury | Case Qty. |
|-----------------------------|--------------|-----------------|----------------|--------------------------------|----------|-------------------|-------------|-----------|
| ITCSN-2000-25'-Black-Reel   | 054007-08898 | 250-750 kcmil   | 25' (7,62 m)   | 2.00"/0.65"<br>(50,8/16,5 mm)  | N/A      | No                | No          | 1         |
| ITCSN-3000-12"-Black-10 Pcs | 054007-08901 | 600-1250 kcmil  | 12" (304,8 mm) | 3.00"/1.00"<br>(76,2/25,4 mm)  | N/A      | Yes               | No          | 10        |
| ITCSN-3000-12"-Black-50 Pcs | 054007-08979 | 600-1250 kcmil  | 12" (304,8 mm) | 3.00"/1.00"<br>(76,2/25,4 mm)  | N/A      | Yes               | No          | 50        |
| ITCSN-3000-48"-Black-5 Pcs  | 054007-08907 | 600-1250 kcmil  | 48" (1,22 m)   | 3.00"/1.00"<br>(76,2/25,4 mm)  | N/A      | Yes               | No          | 5         |
| ITCSN-3000-48"-Black-20 Pcs | 054007-08980 | 600-1250 kcmil  | 48" (1,22 m)   | 3.00"/1.00"<br>(76,2/25,4 mm)  | N/A      | Yes               | No          | 20        |
| ITCSN-4500-48"-Black-5 Pcs  | 051135-37979 | 1500-2500 kcmil | 48" (1,22 m)   | 4.50"/1.50"<br>(114,3/38,1 mm) | N/A      | Yes               | No          | 5         |
| ITCSN-4500-48"-Black-20 Pcs | 054007-08981 | 1500-2500 kcmil | 48" (1,22 m)   | 4.50"/1.50"<br>(114,3/38,1 mm) | N/A      | Yes               | No          | 20        |
| ITCSN-6000-48"-Black-5 Pcs  | 051135-37980 | 2.1"-4.8"       | 48" (1,22 m)   | 6.00"/1.80"<br>(152,4/45,7 mm) | N/A      | Yes               | No          | 5         |
| ITCSN-6000-48"-Black-20 Pcs | 054007-08982 | 2.1"-4.8"       | 48" (1,22 m)   | 6.00"/1.80"<br>(152,4/45,7 mm) | N/A      | Yes               | No          | 20        |

## 3M™ Direct Bury Splice Kits

### 3M™ Direct Bury Splice Kit DB0/B-6

The 3M™ Direct Bury Splice Kit DB0/B-6 is used to electrically connect two or more pre-stripped copper wires and moisture seal the connection for direct burial. The kit includes a 3M™ Performance Plus Wire Connector O/B+ and a high impact, UV-resistant polypropylene tube prefilled with moisture-resistant grease.

|                               |                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------|
| Voltage                       | 600 V                                                                               |
| Splice Type                   | Direct Bury                                                                         |
| Application Temperature Range | 32–120°F (0–49°C)                                                                   |
| Operating Temperature         | 221°F (105°C)                                                                       |
| Flame Retardant               | Yes                                                                                 |
| RoHS 2011/65/EU               | Yes                                                                                 |
| Agency Approval               |  |




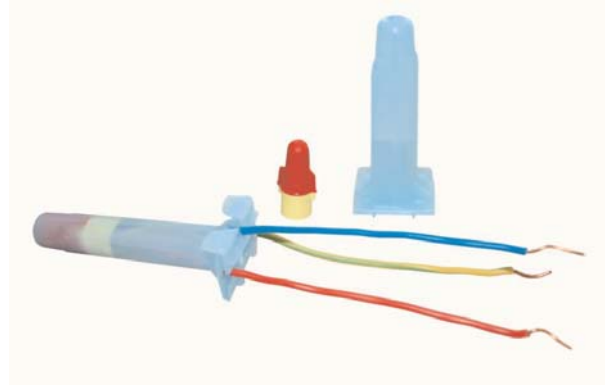
| Order No.    | UPC          | Conductor Size | Common AWG Wire Combinations (CU only)                                                                                                                             | Case Qty. |
|--------------|--------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| DB0/B-6 KIT  | 051128-59075 | 18–10 AWG      | 2–3#16 sol/str; 2–3#14 sol/str; 2#12 sol/str; 1#14 to 1#12 sol/str; 1#18 to 1–2#14 sol/str; 1#18 to 1–2#12 sol/str; 1#16 to 1–2#14 sol/str; 1#16 to 1–2#12 sol/str | 25 Kits   |
| DB0/B-6 BULK | 051128-59076 | 18–10 AWG      | 2–3#16 sol/str; 2–3#14 sol/str; 2#12 sol/str; 1#14 to 1#12 sol/str; 1#18 to 1–2#14 sol/str; 1#18 to 1–2#12 sol/str; 1#16 to 1–2#14 sol/str; 1#16 to 1–2#12 sol/str | 100 Kits  |

## 3M™ Direct Bury Splice Kits

### 3M™ Direct Bury Splice Kit DBR/Y-6

The 3M™ Direct Bury Splice Kit DBR/Y-6 is used to electrically connect two or more pre-stripped copper wires and moisture seal the connection for direct burial. The kit includes a 3M™ Performance Plus Wire Connector R/Y+ and a high impact, UV-resistant polypropylene tube pre-filled with moisture-resistant grease.

|                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| Voltage                       | 600 V                                                                             |
| Splice Type                   | Direct Bury                                                                       |
| Application Temperature Range | 32–120°F (0–49°C)                                                                 |
| Operating Temperature Range   | -40–221°F (-40–105°C)                                                             |
| Flame Retardant               | Yes                                                                               |
| RoHS 2011/65/EU               | Yes                                                                               |
| Agency Approval               |  |



| Order No.    | UPC          | Conductor Size | Common AWG Wire Combinations (CU only)                                                               | Case Qty. |
|--------------|--------------|----------------|------------------------------------------------------------------------------------------------------|-----------|
| DBR/Y-6 KIT  | 051128-58573 | 18–10 AWG      | 2–7#18; 2–6#16; 2–4#14; 2–4#12; 2–3#10; 1–3#12 w/ 1#18; 1–2#10 w/1#18; 1–2#10 w/1#12; 1–2#14 w/ 1#18 | 25 Kits   |
| DBR/Y-6 BULK | 051128-58574 | 18–10 AWG      | 2–7#18; 2–6#16; 2–4#14; 2–4#12; 2–3#10; 1–3#12 w/ 1#18; 1–2#10 w/1#18; 1–2#10 w/1#12; 1–2#14 w/ 1#18 | 100 Kits  |



## 3M™ Resin Splice Kits

### 3M™ Scotchcast™ Inline Splice Kits, 72-N Series

The 3M™ Scotchcast™ Inline Splicing Kits 72-N Series is a series of rigid body splices tailored for joining signal and control cables rated up to 1000 V. The kits are designed to accommodate shielded or unshielded constructions of plastic or rubber-jacketed cables. Six kit sizes cover a range of cables up to 100-pair (200 conductors) 10 AWG or 200-pair (400 conductors) 22 AWG.

**Connectors are not included, order separately.** Each kit contains sufficient material to make one splice, excluding connectors.

### 3M Scotchcast 72-N Series Selection (Based on Conductor/Connector Bundle)

| Kit No.  | Scotchlok™ Insulated Butt Connectors |          |                     |          |                   |          |                     |          |                   |          |                     |     |
|----------|--------------------------------------|----------|---------------------|----------|-------------------|----------|---------------------|----------|-------------------|----------|---------------------|-----|
|          | MV18BC 22-18 AWG                     |          |                     |          | MV14BC 16-14 AWG  |          |                     |          | MV10BC 12-10 AWG  |          |                     |     |
|          | Shielded Cables**                    |          | Unshielded Cables** |          | Shielded Cables** |          | Unshielded Cables** |          | Shielded Cables** |          | Unshielded Cables** |     |
| No Cond. | No Pairs                             | No Cond. | No Pairs            | No Cond. | No Pairs          | No Cond. | No Pairs            | No Cond. | No Pairs          | No Cond. | No Pairs            |     |
| 72-N1*   | —                                    | —        | 6                   | 3        | —                 | —        | 4                   | 2        | —                 | —        | 3                   | —   |
| 72-N2    | 18                                   | 9        | 32                  | 16       | 12                | 6        | 19                  | 9        | 8                 | 4        | 13                  | 6   |
| 72-N3    | 42                                   | 21       | 75                  | 37       | 24                | 12       | 45                  | 22       | 14                | 7        | 27                  | 13  |
| 72-N4    | 74                                   | 37       | 160                 | 80       | 50                | 25       | 90                  | 45       | 40                | 20       | 60                  | 30  |
| 72-N5    | 140                                  | 70       | 200                 | 100      | 120               | 60       | 160                 | 80       | 100               | 50       | 100                 | 50  |
| 72-N6    | 360                                  | 180      | 400                 | 200      | 220               | 110      | 250                 | 125      | 180               | 90       | 200                 | 100 |

\*Nonshielded cable only.

\*\*Figures based on IMSA cable specifications.

|                             |                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Voltage</b>              | 1000 V or less                                                                                                                             |
| <b>Number of Conductors</b> | Multiple Conductors                                                                                                                        |
| <b>Cable/Shielding Type</b> | Shielded and Non-Shielded Signal and Control Cable                                                                                         |
| <b>Splice Type</b>          | Resin                                                                                                                                      |
| <b>Applications</b>         | To splice signal and control cables rated up to 1000 V. Inline splicing of shielded and non-shielded cables in direct burial applications. |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                                                                                        |



Multiple Conductor Nonshielded Signal & Control Cable



Multiple Conductor Shielded Signal & Control Cable



| Order No. | UPC          | Shielded/Non-Shielded | Molded Body Length    | Cable O.D.                      | Case Qty. |
|-----------|--------------|-----------------------|-----------------------|---------------------------------|-----------|
| 72-N1     | 054007-10623 | Non-Shielded          | 7.125"<br>(181,0 mm)  | 0.250"-0.625"<br>(6,4-15,9 mm)  | 10        |
| 72-N2     | 054007-10625 | Shielded              | 10.562"<br>(268,3 mm) | 0.500"-1.000"<br>(12,7-25,4 mm) | 10        |
| 72-N3     | 054007-10627 | Shielded              | 15.438"<br>(392,1 mm) | 0.625"-1.500"<br>(15,9-38,1 mm) | 10        |
| 72-N4     | 054007-10629 | Shielded              | 15.625"<br>(396,9 mm) | 1.000"-2.000"<br>(25,4-50,8 mm) | 1         |
| 72-N5     | 054007-10631 | Shielded              | 20.312"<br>(515,9 mm) | 1.250"-2.250"<br>(31,8-57,2 mm) | 1         |
| 72-N6     | 054007-10633 | Shielded              | 25"<br>(635,0 mm)     | 1.250"-3.250"<br>(31,8-82,6 mm) | 1         |

## 3M™ Resin Splice Kits

### 3M™ Scotchcast™ Re-Enterable Signal and Control Cable Splice Kits 78-R Series

3M™ Scotchcast™ Re-Enterable Signal and Control Cable Splice Kits 78-R Series make inline or tap splices on shielded or nonshielded, plastic- and rubber-jacketed, signal and control (or power) cable rated up to 1 kV.

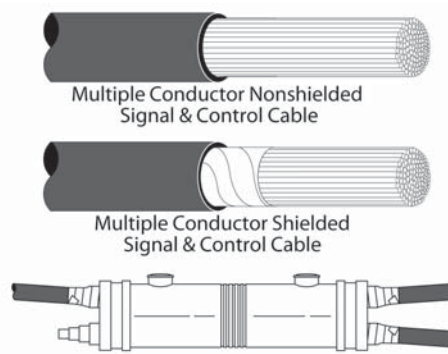
Connectors are not included, order separately. Each kit contains sufficient material to make one splice.

### 3M™ Scotchcast™ 78-R Series Connector Selection

| Scotchlok™ Connectors |                           |             |                     |             |                     |             |                    |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|-----------------------|---------------------------|-------------|---------------------|-------------|---------------------|-------------|--------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|
| Kit No.               | Insulated Butt Connectors |             |                     |             |                     |             | Pigtail Connectors |             |                  |             |                  |             | Tap Connectors   |             |                  |             |                  |             |
|                       | MV18BC<br>22-18 AWG       |             | MV14BC<br>16-14 AWG |             | MV10BC<br>12-10 AWG |             | "Y"<br>18-12 AWG   |             | "R"<br>14-10 AWG |             | 557<br>22-18 AWG |             | 558<br>22-18 AWG |             | 560<br>18-14 AWG |             | 562<br>12-10 AWG |             |
|                       | No<br>Cond.               | No<br>Pairs | No<br>Cond.         | No<br>Pairs | No<br>Cond.         | No<br>Pairs | No<br>Cond.        | No<br>Pairs | No<br>Cond.      | No<br>Pairs | No<br>Cond.      | No<br>Pairs | No<br>Cond.      | No<br>Pairs | No<br>Cond.      | No<br>Pairs | No<br>Cond.      | No<br>Pairs |
| 78-R1                 | 40                        | 20          | 26                  | 13          | 16                  | 8           | 8                  | 4           | 5                | 2           | 15               | 7           | 10               | 5           | 8                | 4           | 6                | 3           |
| 78-R2                 | 66                        | 33          | 45                  | 22          | 26                  | 13          | 20                 | 10          | 10               | 5           | 30               | 15          | 20               | 10          | 16               | 8           | 12               | 6           |
| 78-R3                 | 160                       | 80          | 110                 | 55          | 70                  | 35          | 50                 | 25          | 28               | 14          | 80               | 40          | 50               | 25          | 40               | 20          | 36               | 18          |
| 78-R4                 | 300                       | 150         | 180                 | 90          | 110                 | 55          | 84                 | 42          | 60               | 30          | 142              | 71          | 100              | 50          | 80               | 40          | 68               | 34          |
| 78-R5                 | 550                       | 275         | 320                 | 160         | 200                 | 100         | 174                | 87          | 120              | 60          | 260              | 130         | 200              | 100         | 160              | 80          | 130              | 65          |

Note: Above figures based on IMSA cable specifications.

|                             |                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------|
| <b>Voltage</b>              | 1000 V or less                                                                                   |
| <b>Number of Conductors</b> | Multiple Conductor                                                                               |
| <b>Cable/Shielding Type</b> | Shielded and Non-Shielded Signal and Control Cable                                               |
| <b>Splice Type</b>          | Resin                                                                                            |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                                              |
| <b>Applications</b>         | Inline wye, "x," or butt splicing of shielded or non-shielded cable in direct bury applications. |



| Order No. | UPC          | Kit Size, L x I.D.            | Cable O.D., Run            | Cable O.D., Tap            | Case Qty. |
|-----------|--------------|-------------------------------|----------------------------|----------------------------|-----------|
| 78-R1     | 051128-55115 | 12.50" x 2.75" (318 x 70 mm)  | 0.25"-1.00" (6,4-25,4 mm)  | 0.25"-1.00" (6,4-25,4 mm)  | 1         |
| 78-R2     | 051128-55116 | 24.50" x 2.75" (622 x 70 mm)  | 0.25"-1.00" (6,4-25,4 mm)  | 0.25"-1.00" (6,4-25,4 mm)  | 1         |
| 78-R3     | 051128-55117 | 24.50" x 3.81" (622 x 97 mm)  | 0.50"-1.50" (12,7-38,1 mm) | 0.50"-1.00" (12,7-25,4 mm) | 1         |
| 78-R4     | 051128-55118 | 24.50" x 4.81" (622 x 122 mm) | 0.50"-2.00" (12,7-50,8 mm) | 0.50"-1.75" (12,7-44,5 mm) | 1         |
| 78-R5     | 051128-55119 | 26.50" x 6.00" (673 x 152 mm) | 1.00"-2.50" (25,4-63,5 mm) | 1.00"-2.50" (25,4-63,5 mm) | 1         |

## 3M™ Resin Splice Kits

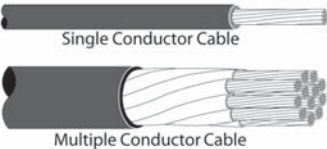
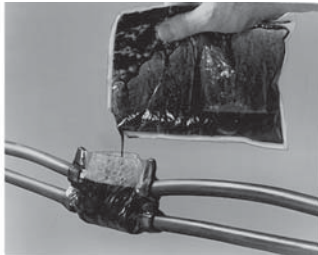
### 3M™ Scotchcast™ Multi-Mold Resin Splice Kits 85 Series

The 3M™ Scotchcast™ Multi-Mold Resin Splice Kit 85 Series are used to electrically insulate odd-sized and odd-shaped splices on cables rated through 1 kV. These flexible plastic molds are easily formed around splices. Within 30 minutes after the resin has been poured, the splice is ready for service – above ground or buried.

The 85-14CP splice is specifically designed for use in cathodic protection with 3M™ Scotchcast™ Electrical Insulating Resin 4.

Each kit makes one splice. Connectors are not included and must be ordered separately.

\* Single Conductor Cable

|                             |                                                                                                            |                                                                                    |                                                                                     |
|-----------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Voltage</b>              | 1000 V or less                                                                                             |  |  |
| <b>Number of Conductors</b> | Single; Multiple                                                                                           |                                                                                    |                                                                                     |
| <b>Cable/Shielding Type</b> | Non-shielded                                                                                               |                                                                                    |                                                                                     |
| <b>Splice Type</b>          | Resin                                                                                                      |                                                                                    |                                                                                     |
| <b>Applications</b>         | Splice cables rated up to 1000 V for inline, wye, or 4-way non-shielded cable in direct bury applications. |                                                                                    |                                                                                     |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                                                        |                                                                                    |                                                                                     |

| Order No. | UPC          | Max. Conductor, Split Bolt       | Max. Conductor, H- or C-Tap Compression | Max. Conductor, Inline Compression | Max. Connector Size (height + width)                                   | Max. Sheath Opening | Max. Cable O.D., Wye or 4-Way                         | Case Qty. |
|-----------|--------------|----------------------------------|-----------------------------------------|------------------------------------|------------------------------------------------------------------------|---------------------|-------------------------------------------------------|-----------|
| 85-10     | 054007-11846 | 8 AWG (stranded)                 | 4 AWG (stranded)                        | -                                  | 1-3/4" (44,5 mm)                                                       | 3-1/2" (88,9 mm)    | Run & Tap: 7/16" (11,1 mm)                            | 10        |
| 85-12     | 054007-11847 | 1 AWG (stranded)                 | 2/0 AWG (stranded)                      | -                                  | 2-3/4" (69,9 mm)                                                       | 3-1/2" (88,9 mm)    | Run & Tap: 3/4" (19,1 mm)                             | 10        |
| 85-14     | 054007-11848 | 2/0 AWG (stranded)               | 4/0 AWG (stranded)                      | -                                  | 3-1/4" (82,6 mm)                                                       | 6-1/2" (165,1 mm)   | Run & Tap: 7/8" (22,2 mm)                             | 10        |
| 85-14-CP* | 054007-31927 | 2/0 AWG (stranded)               | 4/0 AWG (stranded)                      | -                                  | 3-1/4" (82,6 mm)                                                       | 9" (228,6 mm)       | Run & Tap: 7/8" (22,2 mm)                             | 10        |
| 85-16     | 054007-02403 | 250 kcmil (run)<br>2/0 AWG (tap) | 500 kcmil (run)<br>4/0 AWG (tap)        | 750 kcmil                          | Split Bolt: 3-3/4" (95,3 mm)<br>H- or C-Tap Compression: 6" (152,4 mm) | 9" (228,6 mm)       | Run & Tap: 7/8" (22,2 mm)<br>Inline: 1-1/2" (38,1 mm) | 10        |

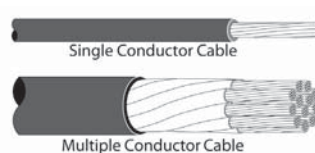
## 3M™ Resin Splice Kits

### 3M™ Scotchcast™ Wye Resin Splice Kit 90-B1

3M™ Scotchcast™ Wye Resin Splice Kit 90-B1 insulates and moisture-seals wye splices made with the split-bolt type connectors on cables rated through 1 kV.

Each kit makes one splice. Connectors must be ordered separately.

|                             |                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------|
| <b>Voltage</b>              | 1000 V or less                                                                                     |
| <b>Number of Conductors</b> | Single; Multiple                                                                                   |
| <b>Cable/Shielding Type</b> | Single Conductor Cable, Multiple Conductor Cable                                                   |
| <b>Splice Type</b>          | Resin                                                                                              |
| <b>Applications</b>         | Insulation and protection of wye splices made with split bolt connectors on cable rated to 1000 V. |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                                                |



| Order No. | UPC          | Cable O.D. – Run               | Cable O.D. (Max.) – Tap | Connector Size (Max.) – Split Bolt | Connector Size (Max.) – Crimped | Case Qty. |
|-----------|--------------|--------------------------------|-------------------------|------------------------------------|---------------------------------|-----------|
| 90-B1     | 054007-25115 | 0.50"-0.812"<br>(12,7-20,1 mm) | 0.375" (9,5 mm)         | 1/0 AWG                            | 2/0 AWG                         | 10        |

### 3M™ Scotchcast™ Flexible Power Cable Tap Splice Kit 82-BF1

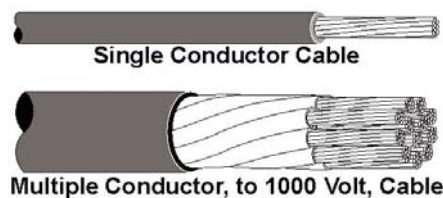
3M™ Scotchcast™ Splice Kit 82-BF1 is for tap splices on non-shielded portable power cables and cords with copper conductors rated up to 1 kV. It can be used on single- conductor or multiple-conductor cables using a compression (crimp) "C" tap connector.

The 82-BF1 molds are removable and reusable. The 82-BF1 splice kit creates a permanent splice as recognized by the Mine Safety and Health Administration (07-KA060002-MSHA).

Each kit makes one splice.

\* Base selection on cable O.D. range.

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| <b>Voltage</b>              | 1000 V or less                                                                      |
| <b>No. of Conductors</b>    | Multiple (600 V), Single (1000 V)                                                   |
| <b>Cable/Shielding Type</b> | Non-Shielded Portable Power Cables and Cords                                        |
| <b>Splice Type</b>          | Resin                                                                               |
| <b>Applications</b>         | Making tap splices on non-shielded portable power cables and cords rated to 1000 V. |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                                 |
| <b>Agency Approval</b>      | MSHA                                                                                |



| Order No. | UPC          | Cable O.D.                                                               | Voltage                                 | Conductor Size                                               | Case Qty. |
|-----------|--------------|--------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------|-----------|
| 82-BF1    | 051128-59175 | For Single: 0.25"-0.80" (6-20 mm)<br>For Multiple: 0.25"-0.80" (6-20 mm) | For Single: 1 kV<br>For Multiple: 600 V | For Single: 1/0 AWG (50 mm <sup>2</sup> )<br>For Multiple: * | 10        |



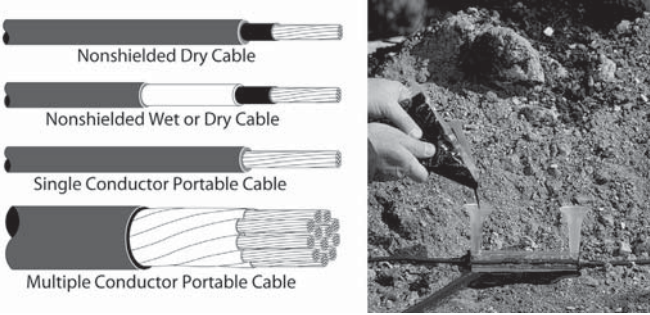

## 3M™ Resin Splice Kits

### 3M™ Scotchcast™ Inline Resin Power Cable Splice Kits 82-A Series

Use the 3M™ Scotchcast™ Inline Resin Splice Kits 82-A Series to insulate and seal single conductor, unshielded cable splices through 5 kV and multiple conductor cables through 1 kV. Designed for use in weather-exposed or direct-burial locations. UL listed for direct burial and submerged applications up to 600 V and 90°C. For use with UL listed connectors only.

Important: Use insulation jacket or connector O.D. for final ordering criteria.

\*Conductor size is 3/0 AWG–500 kcmil when using a 3M™ Scotchlok™ Copper Compression Connector 10014.

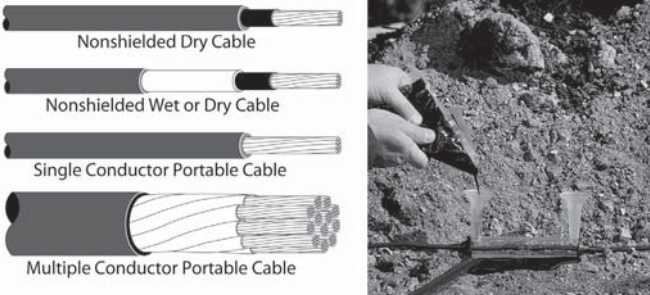
|                             |                                                                                                               |                                                                                    |
|-----------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Voltage</b>              | 600 V or less (Direct Bury and Submerged Applications); 1000 V (Multiple); 5 kV (Single)                      |  |
| <b>Number of Conductors</b> | Single and Multiple                                                                                           |                                                                                    |
| <b>Cable/Shielding Type</b> | Multiple Conductor Portable Cable, Non-Shielded, Single Conductor Portable Cable                              |                                                                                    |
| <b>Splice Type</b>          | Resin                                                                                                         |                                                                                    |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                                                           |                                                                                    |
| <b>Agency Approvals</b>     |  Certified for 600 V or less |                                                                                    |

| Order No. | UPC          | Conductor Size     | Max. Connector O.D. | Max. Cable O.D.  | Max. Sheath Opening (L) | Case Qty. |
|-----------|--------------|--------------------|---------------------|------------------|-------------------------|-----------|
| 82-A      | 054007-25016 | 10-2 AWG           | 0.406" (10,3 mm)    | 0.75" (19,1 mm)  | 4.5" (114,3 mm)         | 10        |
| 82-A1     | 054007-25024 | 18-2 AWG           | 0.406" (10,3 mm)    | 0.625" (15,9 mm) | 4.5" (114,3 mm)         | 10        |
| 82-A2     | 054007-25032 | 2-3/0 AWG          | 0.625" (15,9 mm)    | 1.00" (25,4 mm)  | 6.0" (152,4 mm)         | 10        |
| 82-A3     | 054007-25040 | 3/0 AWG-400 kcmil* | 1.00" (25,4 mm)     | 1.56" (39,7 mm)  | 9.0" (228,6 mm)         | 10        |

### 3M™ Scotchcast™ Wye Resin Splice Kit 82-B1

3M™ Scotchcast™ Wye Resin Splice Kit 82-B1 insulates and seals wye splices for compression tap connectors (e.g., C-tap or H-tap) rated for cables up to 5 kV. Use on nonshielded cables through 5 kV and on multiple conductor cables through 1 kV.

This kit will accommodate both split bolt and crimped conductors. Each kit makes one splice. Connectors are not included in the kit and must be purchased separately.

|                             |                                                                                  |                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Voltage</b>              | 1000 V; 5 kV                                                                     |  |
| <b>Number of Conductors</b> | Multiple (1000 V), Single (5 kV)                                                 |                                                                                      |
| <b>Cable/Shielding Type</b> | Multiple Conductor Portable Cable, Non-Shielded, Single Conductor Portable Cable |                                                                                      |
| <b>Splice Type</b>          | Resin                                                                            |                                                                                      |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                              |                                                                                      |

| Order No. | UPC          | Voltage Rating                 | Cable O.D.                 | Max. Conductor Size – Split Bolt | Max. Conductor Size – Crimped | Case Qty. |
|-----------|--------------|--------------------------------|----------------------------|----------------------------------|-------------------------------|-----------|
| 82-B1     | 054007-25057 | 5 kV (Single); 1 kV (Multiple) | 0.25"–0.625" (6,4–16,0 mm) | 4 AWG                            | 2 AWG                         | 10        |

## 3M™ Resin Splice Kits

### 3M™ Scotchcast™ Flexible Power Cable Inline Splicing Kits 82-F Series

3M™ Scotchcast™ Flexible Power Cable Inline Splicing Kits 82-F Series are a series of flexible inline splices for use on non-shielded portable power cables and cords. They are designed to be used on single and multiple conductor cables and cords rated up to 1000 Volts (600/2000 Volts mine portable cable rating). The 82-F Series accommodates a 1/C cable rated up to 5 kV. The splices accommodate 1/C cables sized up to 4/0 for inline splicing. Multi-conductor sizing is based on a cable diameter range of up to 1.2" for inline splicing.

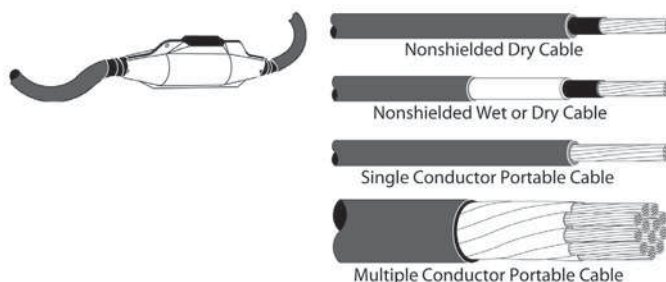
The splice kits are based on 3M™ Scotchcast™ Flame Retardant Compound 2130 for toughness, flexibility, moisture sealing and flame retardancy. They are permanent splices as assigned by the Mine Safety and Health Administration (07-KA060002-MSHA). The completed splices are designed for use in weather-exposed, direct burial or submerged locations. 3M™ Scotchcast™ Inline Splice Kits for Flexible Power Cable 82-F1 are for use on unshielded, portable power cables. The kits are rated up to 5 kV for 1/C and up to 1 kV for multiple conductors.

Each kit makes one splice. Connectors are not included in the kit, and must be purchased separately.

\*Mine portable cable rating of 600/2000 V

\*\*Base selection on cable O.D. range

|                             |                                                                                |
|-----------------------------|--------------------------------------------------------------------------------|
| <b>Voltage</b>              | 1000 V; 5 kV                                                                   |
| <b>Number of Conductors</b> | Multiple (1000 V), Single (5 kV)                                               |
| <b>Cable/Shielding Type</b> | Non-Shielded Dry and Wet Cables, Single and Multiple Conductor Portable Cables |
| <b>Splice Type</b>          | Resin                                                                          |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                            |
| <b>Agency Approvals</b>     | MSHA                                                                           |



| Order No. | UPC          | Cable O.D.                                                                 | Connection Max. O.D.                                     | Voltage                                 | Conductor Size                                                       | Case Qty. |
|-----------|--------------|----------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------|-----------|
| 82-F1     | 051128-59176 | For Single: 0.25"-0.80" (6-20 mm)<br>For Multiple: 0.25"-0.80" (6-20 mm)   | For Single: 0.62" (16 mm)<br>For Multiple: 0.90" (23 mm) | For Single: 5 kV<br>For Multiple: 1 kV* | For Single: 6-1/0 AWG (16-50 mm <sup>2</sup> )<br>For Multiple: **   | 10        |
| 82-F2     | 051128-59177 | For Single: 0.80"-1.20" (20-30 mm)<br>For Multiple: 0.80"-1.20" (20-30 mm) | For Single: 0.82" (21 mm)<br>For Multiple: 1.30" (33 mm) | For Single: 5 kV<br>For Multiple: 1 kV* | For Single: 2/0-4/0 AWG (70-95 mm <sup>2</sup> )<br>For Multiple: ** | 10        |

## 3M™ Resin Splice Kits

### 3M™ Scotchcast™ Flame-Retardant Compound 2131

3M™ Scotchcast™ Flame-Retardant Compound 2131 is a two-part polyurethane resin designed to replace the cable jacket when splicing or repairing mine and portable cables. Its unique formulation makes it particularly suited to withstand the rugged conditions under which mine and portable cables must operate. When used in accordance with the appropriate kit configuration, Compound 2131 conforms to MSHA Part 7, Title 30 CFR.

Flame-Retardant Compound 2131 is also used as the insulating material for cable splices operating at up to 1000 volts and designed for 194°F (90°C) at continuous use and for 266°F (130°C) at temporary, overload temperature.

3M™ Scotchcast™ Flame-Retardant Compound 2131 comes in two sizes of 2-part pouch containers, as well as separate 5 gallon jugs for both Part A and Part B. (Note: 2.1 parts of B required for every 1 part of A by weight.)

|                                   |                                                                |
|-----------------------------------|----------------------------------------------------------------|
| <b>Voltage</b>                    | 1000 Volts or less                                             |
| <b>Cure Time</b>                  | 16 to 24 Hours at 70°F (21°C)                                  |
| <b>Energize Time</b>              | Immediately                                                    |
| <b>Max. Operating Temperature</b> | 194°F (90°C) continuous                                        |
| <b>Color</b>                      | Black                                                          |
| <b>RoHS 2011/65/EU</b>            | Yes                                                            |
| <b>Used in these kits</b>         | 5750; 5760; 5831; 5832; 82-F1; 82-F2; 82-BF1; M-20; M-30; M-40 |



| Order No.         | UPC          | Packaging Description | Weight            | Volume in³ (cm³) | Case Qty. |
|-------------------|--------------|-----------------------|-------------------|------------------|-----------|
| 2131B             | 051128-59166 | 2-part pouch          | 7.5 oz (213 g)    | 10.6 (175)       | 10        |
| 2131C             | 051128-59167 | 2-part pouch          | 21.5 oz (612 g)   | 30.6 (502)       | 10        |
| 2131-Part A 5 Gal | 051128-59181 | 5 gallon jug, Part A  | 44.5 lb (20.1 kg) |                  | 1 pail    |
| 2131-Part B 5 Gal | 051128-59182 | 5 gallon jug, Part B  | 46.5 lb (21 kg)   |                  | 1 pail    |

## 3M™ Resin Splice Kits

### 3M™ Scotchcast™ Potting Kit 2136

The 3M™ Scotchcast™ Potting Kit 2136 is designed to provide protection against corrosion and possible deteriorating effects of fresh swimming pool or fountain water and sunlight by reliably encapsulating the 8 AWG ground connection in a wet-niche shell as required by NEC® when using rigid, non-metallic conduit in the installation of wet-niche

underwater lighting fixtures. Scotchcast 2136 compound is UL Listed as a potting compound for swimming pool, fountain, or spa equipment and is for use only where adhering to copper, copper alloy and stainless steel materials.

3M™ Scotchcast™ Potting Compound 2136 is a thixotropic polyurethane resin, designed to resist dripping or sagging, and contained in an easy mix 1.5 oz. closed mixing pouch. At temperatures above 40°F (18°C) the compound will firm up in minutes. Encapsulated connections should be allowed to cure for 4 hours prior to submersion.

|                                   |                                                |
|-----------------------------------|------------------------------------------------|
| <b>Voltage</b>                    | Up to 1000 Volts;<br>UL Listed up to 600 Volts |
| <b>Cure Time</b>                  | 4 Hours at 70°F (21°C)                         |
| <b>Energize Time</b>              | Immediately                                    |
| <b>Max. Operating Temperature</b> | UL Listed 20L02 220°F (105°C)                  |
| <b>Color</b>                      | Black                                          |
| <b>RoHS 2011/65/EU</b>            | Yes                                            |



| Order No. | UPC          | Material         | Weight, oz (g) | Containers per Case |
|-----------|--------------|------------------|----------------|---------------------|
| 2136      | 051128-59190 | Potting Compound | 1.50 (42,5)    | 10                  |



## 3M™ Resin Splice Kits

### 3M™ Resin Pressure System Components

The 3M™ Resin Pressure System is comprised of several components used for constructing splices or splice jackets on medium voltage power cables for harsh environments. 3M™ Scotchcast™ Electrical Insulating Resin 4 is a key component of the system, which can be used as the primary insulation for shielded and non-shielded splices rated up to 8 kV. The system is also available as a resin-jacketed tape splice (TapeCast) rated up to 25 kV. The resin is a two-part epoxy, packaged in a special Unipak container that provides the exact mixing ratio for making a strong, dependable and long-lasting splice or splice jacket. The versatile resin system accommodates a variety of splice configurations and cables.

A resin pressure system splice is suitable for submerged locations (e.g. manholes and vaults), underground direct burial, and aerial applications. All parts are ordered separately. Contact your local 3M representative for further details.



### 3M™ Resin Pressure System Components

| Voltage Class | Number of Conductors                                        | Shielding                                                              | Insulation Material                                                                    | Splice Configuration             |
|---------------|-------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------|
| 5 and 8 kV    | 1/C, multi/C and Transitions from Multi-to single conductor | Non-shielded, Tape Shielded, Wire Shielded, UniShield®, LC, CN and JCN | Solid Dielectric (EPR, XLPE, etc.), PILC and transitions from PILC to Solid Dielectric | Inline, Wye and Tee Resin Splice |
| 15 kV         | 1/C, multi/C and Transitions from Multi-to single conductor | Tape Shielded, Wire Shielded, UniShield®, LC, CN and JCN               | Solid Dielectric (EPR, XLPE, etc.), PILC and transitions from PILC to Solid Dielectric | Inline and Tee TapeCast™ Splice  |
| 25 kV         | 1/C, multi/C and Transitions from Multi-to single conductor | Tape Shielded, Wire Shielded, UniShield®, LC, CN and JCN               | Solid Dielectric (EPR, XLPE, etc.), PILC and transitions from PILC to Solid Dielectric | Inline and Tee TapeCast™ Splice  |

These Resin and 3M™ TapeCast™ Splices will also work on sector shaped conductors.

| Order No. | UPC          | Product Name                           | Description                                                                                                                               | Case Qty. |
|-----------|--------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| E-4       | 054007-25701 | 3M™ Resin Pressure Gun E-4             | Reusable resin pressure gun used for constructing a resin pressure splice.                                                                | 1         |
| P-1B      | 054007-11857 | 3M™ Scotchcast™ Injection Fitting P-1B | Enables safe transfer of resin through gun and into the joint.                                                                            | 5         |
| P-3       | 054007-25735 | 3M™ Scotchcast™ Spacer Tape P-3        | Used to build up voids in odd shaped splices, ensures full resin coverage, and forms a liquid tight mold. 27' x 1-1/2" (8,23 m x 38,1 mm) | 50        |
| P-4       | 054007-25743 | 3M™ Cloth Tape P-4                     | Restrictor Tape, 1" x 30' on 1" core.                                                                                                     | 50        |
| P-5B      | 054007-11858 | 3M™ Scotchcast™ Injection Nozzle P-5B  | Used to puncture compound bag and pipe compound to P-1B injection fitting. Mastic seal prevents spillage.                                 | 5         |

## 3M™ Cold Shrink Connector Insulators 8420 and 8430 Series

3M™ Cold Shrink Connector Insulators 8420 and 8430 Series are designed using 3M's proprietary cold shrink delivery system. Products are supplied prestretched on a removable core for efficiency and ease of installation. Removal of the core (unwinding) after positioning the splice allows the product to shrink into position forming a moisture-tight seal. The live memory action of the specially formulated EPDM material promotes a permanent, durable environmental seal and insulation, with a typical operating temperature range from -40–194°F (-40–90°C).

The 8420 insulator meets requirements of ANSI C119-1 and Western Underground Guide 2.14 for secondary splices rated up to 1 kV.

Important: Use insulation jacket or connector O.D. for final ordering criteria.

\* Mastic pads included for cable O.D. build-up. \*\* Kit contains adapters. \*\*\* These sizes are listed for availability only and are not designed to be used as primary insulation. These tubes are for conduit sealing and breakouts. \*\*\*\*Maximum connector length: 5.625"

"Point of Purchase" packaging designated by "P". Example: 8423-6P

|                             |                                                                                                                                                                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Voltage</b>              | 1000 V or less                                                                                                                                                                                                                     |
| <b>Number of Conductors</b> | Single Conductor                                                                                                                                                                                                                   |
| <b>Cable Type</b>           | Low Voltage Single Conductor Insulated Cable                                                                                                                                                                                       |
| <b>Splice Type</b>          | Cold Shrink                                                                                                                                                                                                                        |
| <b>Applications</b>         | Primary electrical insulation for all solid dielectric (rubber and plastic) insulated wire and cable splicing rated to 1000 V. Good for repairs and environmental sealing for communication and other non-electrical applications. |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                                                                                                                                                                                |
| <b>Agency Approvals</b>     | ANSI C1191.1                                                                                                                                                                                                                       |



| Order No. | UPC          | Typical Conductor Size                      | Min. Cable Dia. for Seal | Max. Dia. Insulator Cable or Connector Covers | Max. Connector Length | Relaxed Tube Length | Case Qty. |
|-----------|--------------|---------------------------------------------|--------------------------|-----------------------------------------------|-----------------------|---------------------|-----------|
| 8423-6    | 054007-42146 | 6-4 AWG (14-16 mm <sup>2</sup> )            | 0.31" (7,8 mm)           | 0.56" (14,2 mm)                               | 2.0" (50,8 mm)        | 6.0" (152,4 mm)     | 10        |
| 8423-6P   | 054007-42864 | 6-4 AWG (14-16 mm <sup>2</sup> )            | 0.31" (7,8 mm)           | 0.56" (14,2 mm)                               | 2.0" (50,8 mm)        | 6.0" (152,4 mm)     | 10        |
| 8424-8**  | 054007-42390 | 10-1/0 AWG (6-16 mm <sup>2</sup> )          | 0.10" (2,5 mm)           | 0.82" (20,9 mm)                               | 3.0" (76,2 mm)        | 8.0" (203,2 mm)     | 10        |
| 8424-8P   | 054007-42865 | 10-1/0 AWG (6-16 mm <sup>2</sup> )          | 0.10" (2,5 mm)           | 0.82" (20,9 mm)                               | 3.0" (76,2 mm)        | 8.0" (203,2 mm)     | 10        |
| 8425-8    | 054007-42391 | 2-1/0 AWG (35-50 mm <sup>2</sup> )          | 0.40" (10,1 mm)          | 0.82" (20,9 mm)                               | 3.0" (76,2 mm)        | 8.0" (203,2 mm)     | 10        |
| 8425-8P   | 054007-42866 | 2-1/0 AWG (35-50 mm <sup>2</sup> )          | 0.40" (10,1 mm)          | 0.82" (20,9 mm)                               | 3.0" (76,2 mm)        | 8.0" (203,2 mm)     | 10        |
| 8426-9    | 054007-34457 | 2/0 AWG-250 kcmil (70-125 mm <sup>2</sup> ) | 0.55" (13,9 mm)          | 1.18" (30,1 mm)                               | 5.0" (127,0 mm)       | 9.0" (228,6 mm)     | 10        |
| 8426-9M*  | 054007-43436 | 2-4/0 AWG (30-90 mm <sup>2</sup> )          | 0.40" (10,1 mm)          | 1.18" (30,1 mm)                               | 5.0" (127,0 mm)       | 9.0" (228,6 mm)     | 10        |
| 8426-9P   | 054007-42867 | 2/0 AWG-250 kcmil (70-125 mm <sup>2</sup> ) | 0.55" (13,9 mm)          | 1.18" (30,1 mm)                               | 5.0" (127,0 mm)       | 9.0" (228,6 mm)     | 10        |
| 8426-11   | 054007-34458 | 2/0 AWG-250 kcmil (70-125 mm <sup>2</sup> ) | 0.55" (13,9 mm)          | 1.18" (30,1 mm)                               | 7.0" (177,8 mm)       | 11.0" (279,4 mm)    | 10        |
| 8427-6*** | 054007-09915 | -                                           | 0.67" (16,8 mm)          | 1.38" (35,1 mm)                               | 2.0" (50,8 mm)        | 6.0" (152,4 mm)     | 10        |
| 8427-12   | 054007-34459 | 250-400 kcmil (125-200 mm <sup>2</sup> )    | 0.67" (16,8 mm)          | 1.38" (35,1 mm)                               | 8.0" (203,2 mm)       | 12.0" (304,8 mm)    | 10        |
| 8427-12P  | 054007-42868 | 250-400 kcmil (125-200 mm <sup>2</sup> )    | 0.67" (16,8 mm)          | 1.38" (35,1 mm)                               | 8.0" (203,2 mm)       | 12.0" (304,8 mm)    | 10        |
| 8427-16   | 054007-34460 | 250-400 kcmil (125-200 mm <sup>2</sup> )    | 0.67" (16,8 mm)          | 1.38" (35,1 mm)                               | 12.0" (304,8 mm)      | 16.0" (406,4 mm)    | 10        |
| 8428-6*** | 054007-09916 | -                                           | 0.95" (24,1 mm)          | 1.94" (49,2 mm)                               | 2.0" (50,8 mm)        | 6.0" (152,4 mm)     | 10        |

### 3M™ Cold Shrink Connector Insulators 8420 and 8430 Series (continued)

| Order No.  | UPC          | Typical Conductor Size                   | Min. Cable Dia. for Seal | Max. Dia. Insulator Cable or Connector Covers | Max. Connector Length | Relaxed Tube Length | Case Qty. |
|------------|--------------|------------------------------------------|--------------------------|-----------------------------------------------|-----------------------|---------------------|-----------|
| 8428-6M    | 051128-53828 | 450-800 kcmil (240-400 mm <sup>2</sup> ) | 0.95" (24,1 mm)          | 1.94" (49,2 mm)                               | 2.0" (50,8 mm)        | 6.0" (152,4 mm)     | 50        |
| 8428-8     | 051128-53711 | 500-800 kcmil (300-400 mm <sup>2</sup> ) | 0.95" (24,1 mm)          | 1.94" (49,2 mm)                               | 3.0" (76,2 mm)        | 8.0" (203,2 mm)     | 25        |
| 8428-12    | 054007-09056 | 500-800 kcmil (300-400 mm <sup>2</sup> ) | 0.95" (24,1 mm)          | 1.94" (49,2 mm)                               | 8.0" (203,2 mm)       | 12.0" (304,8 mm)    | 10        |
| 8428-12M   | 054007-43746 | 500-800 kcmil (300-400 mm <sup>2</sup> ) | 0.95" (24,1 mm)          | 1.94" (49,2 mm)                               | 8.0" (203,2 mm)       | 12.0" (304,8 mm)    | 10        |
| 8428-12P   | 054007-42869 | 500-800 kcmil (300-400 mm <sup>2</sup> ) | 0.95" (24,1 mm)          | 1.94" (49,2 mm)                               | 8.0" (203,2 mm)       | 12.0" (304,8 mm)    | 10        |
| 8428-18    | 054007-34461 | 500-800 kcmil (300-400 mm <sup>2</sup> ) | 0.95" (24,1 mm)          | 1.94" (49,2 mm)                               | 14.0" (355,6 mm)      | 18.0" (457,2 mm)    | 10        |
| 8429-6***  | 054007-09917 | -                                        | 1.27" (32,2 mm)          | 2.67" (67,8 mm)                               | 2.0" (50,8 mm)        | 6.0" (152,4 mm)     | 10        |
| 8429-9**** | 054007-09931 | 900-1000 kcmil (500 mm <sup>2</sup> )    | 1.27" (32,2 mm)          | 2.67" (67,8 mm)                               | 5.0" (127,0 mm)       | 9.0" (228,6 mm)     | 10        |
| 8429-9M    | 054007-42018 | 900-1000 kcmil (500 mm <sup>2</sup> )    | 1.27" (32,2 mm)          | 2.67" (67,8 mm)                               | 5.0" (127,0 mm)       | 9.0" (228,6 mm)     | 10        |
| 8429-12    | 054007-42389 | 900-1000 kcmil (500 mm <sup>2</sup> )    | 1.27" (32,2 mm)          | 2.67" (67,8 mm)                               | 8.0" (203,2 mm)       | 12.0" (304,8 mm)    | 10        |
| 8429-15    | 054007-44198 | 900-1000 kcmil (500 mm <sup>2</sup> )    | 1.27" (32,2 mm)          | 2.67" (67,8 mm)                               | 11.0" (279,4 mm)      | 15.0" (381,0 mm)    | 10        |
| 8429-18    | 054007-34462 | 900-1000 kcmil (500 mm <sup>2</sup> )    | 1.27" (32,2 mm)          | 2.67" (67,8 mm)                               | 14.0" (355,6 mm)      | 18.0" (457,2 mm)    | 10        |
| 8430-9***  | 054007-42147 | 1250-2000 kcmil                          | 1.68" (42,6 mm)          | 3.69" (93,7 mm)                               | 5.0" (127,0 mm)       | 9.0" (228,6 mm)     | 10        |
| 8430-18    | 054007-42388 | 1250-2000 kcmil                          | 1.68" (42,6 mm)          | 3.69" (93,7 mm)                               | 14.0" (355,6 mm)      | 18.0" (457,2 mm)    | 10        |

## 3M™ Cold Shrink Splice Kits

### 3M™ Cold Shrink Silicone Insulators 8440 Series (1000 Volts or less)

3M™ Cold Shrink Silicone Insulators 8440 Series are insulating sleeves made from a specially formulated high-temperature silicone rubber with a typical operating temperature range of -67–500°F (-55–260°C).



Single Conductor Cable

|                          |                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Voltage</b>           | 1000 V or less                                                                                                                |
| <b>No. of Conductors</b> | Single Conductor                                                                                                              |
| <b>Cable Type</b>        | Low Voltage Single Conductor Insulated Cable                                                                                  |
| <b>Splice Type</b>       | Cold Shrink                                                                                                                   |
| <b>Application</b>       | Primary electrical insulation for all solid dielectric (rubber and plastic) insulated wire and cable splices rated to 1000 V. |
| <b>RoHS 2011/65/EU</b>   | Yes                                                                                                                           |



| Order No. | UPC          | Typical Conductor Size                  | Min. Cable Diameter for Seal | Max. Diameter Insulator Cable or Connector Covers | Relaxed Tube Length | Case Qty. |
|-----------|--------------|-----------------------------------------|------------------------------|---------------------------------------------------|---------------------|-----------|
| 8443-2    | 054007-09485 | 6–2 AWG<br>(14–30 mm <sup>2</sup> )     | 0.30" (7,6 mm)               | 0.56" (14,2 mm)                                   | 2.00" (50,8 mm)     | 12        |
| 8443-3    | 051128-57098 | 6–2 AWG<br>(14–30 mm <sup>2</sup> )     | 0.30" (7,6 mm)               | 0.56" (14,2 mm)                                   | 2.00" (50,8 mm)     | 12        |
| 8443-6.5  | 054007-09482 | 6–2 AWG<br>(14–30 mm <sup>2</sup> )     | 0.30" (7,6 mm)               | 0.56" (14,2 mm)                                   | 6.50" (165,1 mm)    | 12        |
| 8445-2.5  | 054007-09486 | 2–1/0 AWG<br>(35–50 mm <sup>2</sup> )   | 0.37" (9,4 mm)               | 0.72" (18,3 mm)                                   | 2.50" (63,5 mm)     | 12        |
| 8445-7.5  | 054007-09483 | 2–1/0 AWG<br>(35–50 mm <sup>2</sup> )   | 0.37" (9,4 mm)               | 0.72" (18,3 mm)                                   | 7.50" (190,5 mm)    | 12        |
| 8447-3.2  | 054007-09487 | 1/0–3/0 AWG<br>(60–80 mm <sup>2</sup> ) | 0.49" (12,4 mm)              | 0.95" (24,1 mm)                                   | 3.20" (81,3 mm)     | 12        |
| 8447-8    | 054007-09484 | 1/0–3/0 AWG<br>(60–80 mm <sup>2</sup> ) | 0.49" (12,4 mm)              | 0.95" (24,1 mm)                                   | 8.00" (203,2 mm)    | 12        |



## 3M™ Cold Shrink Splice Kits

### 3M™ Cold Shrink Quick Insulator QI Series

3M™ Cold Shrink Quick Insulator QI Series are open-ended tubular rubber sleeves with sealing mastic on each end that are factory expanded and assembled onto a removable core. The core is removed by pulling from one end after the QI insulator has been positioned over an inline connector, allowing the ends of the tube to shrink and form a water-resistant seal. Sizing of the core and tube, along with the sealing mastic on each end, provides a broader application range without degrading the seal and insulating characteristics of the EPDM rubber tube. Three diameter sizes will cover a range of 1 kV or less cable from 8 AWG–1250 kcmil, copper and aluminum conductors with crimped connectors.



Single Conductor Cable

|                             |                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------|
| <b>Voltage</b>              | 1000 V or less                                                                                   |
| <b>Number of Conductors</b> | Single Conductor                                                                                 |
| <b>Cable Type</b>           | Low Voltage Single Conductor Insulated Cable                                                     |
| <b>Splice Type</b>          | Cold Shrink                                                                                      |
| <b>Applications</b>         | Insulating and protecting low voltage splices in direct bury secondary low voltage applications. |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                                              |
| <b>Agency Approvals</b>     | ANSI C-119.1                                                                                     |



| Order No.    | UPC          | Conductor Size, Cu | Conductor Size, Al | Cable Insulation O.D.         | Max. Connector O.D. | Max Connector Length | Case Qty. |
|--------------|--------------|--------------------|--------------------|-------------------------------|---------------------|----------------------|-----------|
| QI-5/16-220  | 051128-57750 | 8–2/0 AWG          | 8–1/0 AWG          | 0.20"–0.65"<br>(5,1–16,5 mm)  | 0.65" (16,5 mm)     | 2.75" (69,9 mm)      | 10        |
| QI-10/37-270 | 051128-57698 | 2 AWG–750 kcmil    | 2 AWG–500 kcmil    | 0.40"–1.45"<br>(10,2–36,8 mm) | 1.45" (36,8 mm)     | 4.50" (114,3 mm)     | 10        |
| QI-18/57-325 | 051128-57751 | 250–1250 kcmil     | 250–1250 kcmil     | 0.71"–2.25"<br>(18,0–57,2 mm) | 2.25" (57,2 mm)     | 6.00" (152,4 mm)     | 10        |

## 3M™ Cold Shrink Splice Kits

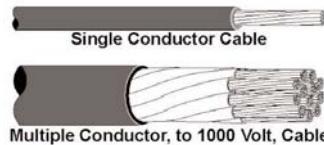
### 3M™ Cold Shrink Quick Splice Low Voltage QSLV-M Series

3M™ Cold Shrink Quick Splice Low Voltage QSLV-M are open-ended tubular rubber sleeves with sealing mastic on each end which are factory expanded and assembled onto a unique three-core system. Two cores, one on each end, are removed after the QSLV-M insulator has been centered over an inline connector, allowing the ends of the tube to shrink and form a water-resistant seal. The third, center segment of the core remains inside the cold shrink tube, acting as a support structure. Sizing of the cores and tube, along with the sealing mastic on each end, is designed to accommodate the variance in connectors and connector crimping techniques and final dimensions without degrading the seal and insulating characteristics of the EPDM rubber tube, while also making core removal easy. Two diameter sizes will cover a range of 1 kV or less cable from 8 AWG through 500 kcmil, copper and aluminum conductors with crimped connectors.

In aerial applications where intense UV radiation will be common and visual inspection is not possible, it is recommended to overwrap the tubing with Scotch® Super 33+™ Vinyl Electrical Tape or Scotch® Self-Fusing Silicone Rubber Electrical Tape 70.

Note: Insulator may be used on cable sizes outside of the recommended range provided both cables are within the insulation O.D. range, and the connector meets the dimensional requirements shown in the table.

|                             |                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------|
| <b>Voltage</b>              | 1000 V or less                                                                                   |
| <b>Number of Conductors</b> | Single Conductor                                                                                 |
| <b>Cable Type</b>           | Low Voltage Single Conductor<br>Insulated Cable                                                  |
| <b>Splice Type</b>          | Cold Shrink                                                                                      |
| <b>Applications</b>         | Insulating and protecting low voltage splices in direct bury secondary low voltage applications. |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                                              |
| <b>Agency Approvals</b>     | ANSI C119.1                                                                                      |



| Order No.     | UPC          | Cable Size, Al  | Cable Size, Cu   | Cable Insulation O.D.     | Max. Connector O.D. | Max. Connector Length | Case Qty. |
|---------------|--------------|-----------------|------------------|---------------------------|---------------------|-----------------------|-----------|
| QSLV-M(8-2/0) | 051128-57236 | 8-2/0 AWG       | 8-3/0 AWG        | 0.20"-0.75"<br>(5-19 mm)  | 0.687" (17 mm)      | 2.50" (63 mm)         | 10        |
| QSLV-M(2-500) | 051128-57237 | 2 AWG-500 kcmil | 2 AWG-1000 kcmil | 0.40"-1.60"<br>(10-41 mm) | 1.500" (38 mm)      | 4.25" (108 mm)        | 10        |

## 3M™ Cold Shrink Splice Kits

### 3M™ Cold Shrink Connector Insulator WF Series

3M™ Cold Shrink Connector Insulator WF Series are designed using 3M's unique cold shrink delivery system. Products are supplied pre-stretched on a removable core for efficiency and ease of installation. Removal of the core (unwinding) after positioning the splice allows the product to shrink into position forming a moisture tight seal. The live memory action of the specially formulated EPDM material promotes a permanent, durable environmental seal and insulation, with typical operating range from 40° to 194°F (-40° to 90°C).

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Voltage</b>              | 2000 V or less                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Number of Conductors</b> | Single Conductor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Cable Type</b>           | Low Voltage Single Conductor<br>Insulated Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Splice Type</b>          | Cold Shrink                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Applications</b>         | Primary electrical insulation for all solid dielectric (rubber and plastic) insulated wire and cable splices rated to 2000 volts. Direct bury or submersible, indoor and outdoor, lug connections to bus bar, insulation of secondary splices, copper or aluminum conductors, relocation of service, dig in and sheath repairs, wind farm down tower applications, environmental sealing for communication and other non-electrical applications and insulation of inline conductor transition connector. |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Agency Approvals</b>     | UL listed in US and Canada                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Order No. | UPC          | Conductor Size AWG & kcmil                | Product Diameter Range Inches (mm) | Min. Order Qty. | Case Qty. |
|-----------|--------------|-------------------------------------------|------------------------------------|-----------------|-----------|
| WF100     | 051128-60145 | 4-2 AWG                                   | 0.35"-0.56" (8,9-14,2 mm)          | 10              | 10        |
| WF101     | 051128-60146 | 1-2/0 AWG                                 | 0.45"-0.82" (11,4-20,8 mm)         | 10              | 10        |
| WF102     | 051128-60147 | 3/0 AWG-250 kcmil                         | 0.62"-1.18" (15,7-30,1 mm)         | 10              | 10        |
| WF103     | 051128-59546 | 350-500 kcmil                             | 0.88"-1.63" (22,4-41,4 mm)         | 10              | 10        |
| WF104     | 051128-60148 | 600-750 kcmil (Al)<br>600-1000 kcmil (Cu) | 1.00"-1.94" (25,4-49,3 mm)         | 10              | 10        |

## 3M™ Cold Shrink Splice Kits


### 3M™ Inline Splices for 3/C or 4/C Armored Power Cable (Teck-90) 5730 Series

These kits are applicable for indoor and outdoor installations, including direct burial, aerial and submersible applications. Each kit requires at least 1 roll of 3M™ Armorcast Structural Material. For use with 3/C or 4/C Armor Power Cable (Teck-90) up to 1000 V.

3M™ 3/C Armored Power Cable 5730 Series accommodates a full range of cable sizes from 14 AWG–750 kcmil. The overall jacket diameter ranges from 0.62–4.00" (16–102 mm).

#### Notes

- Connectors are not included in the kit. Use only CSA certified compression connectors. Vinyl or nylon butt connectors are preferred.
- Amount of armorcast needed is based on two half-lapped layers and 15' rolls.

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| <b>Voltage</b>              | 1000 V or less                                                                      |
| <b>Number of Conductors</b> | Multiple Conductor                                                                  |
| <b>Cable/Shielding Type</b> | Armor Power Cable (Teck 90)                                                         |
| <b>Splice Type</b>          | Inline                                                                              |
| <b>RoHS 2011/65/EU</b>      | Yes                                                                                 |
|                             |    |
| <b>Agency Approvals</b>     | Certified for 600 V or less<br>CSA Approved for use in the United States and Canada |



| Order No. | UPC          | Voltage  | Conductor Size    | Overall Jacket Diameter        | Number of Conductors | Amount of 3M™ Armorcast Required | Case Qty. |
|-----------|--------------|----------|-------------------|--------------------------------|----------------------|----------------------------------|-----------|
| 5730      | 054007-43171 | 0–600 V  | 14–10 AWG         | 0.62"–1.00"<br>(15,7–25,4 mm)  | 3/C or 4/C           | 1 roll                           | 1         |
| 5731      | 054007-43172 | 0–600 V  | 8–4 AWG           | 0.95"–1.40"<br>(24,1–35,6 mm)  | 3/C or 4/C           | 1 roll                           | 1         |
| 5732      | 054007-43173 | 0–1000 V | 2–1/0 AWG         | 0.95"–2.40"<br>(24,1–61,0 mm)  | 3/C only             | 1 roll                           | 1         |
| 5733      | 054007-43174 | 0–1000 V | 2/0 AWG–250 kcmil | 1.15"–3.30"<br>(29,2–83,8 mm)  | 3/C only             | 2 rolls                          | 1         |
| 5734      | 054007-43175 | 0–1000 V | 250–500 kcmil     | 1.55"–4.00"<br>(39,4–101,6 mm) | 3/C only             | 2 rolls                          | 1         |
| 5735      | 054007-43176 | 0–1000 V | 500–750 kcmil     | 1.55"–4.00"<br>(39,4–101,6 mm) | 3/C only             | 3 rolls                          | 1         |



## 3M™ Cold Shrink Splice Kits

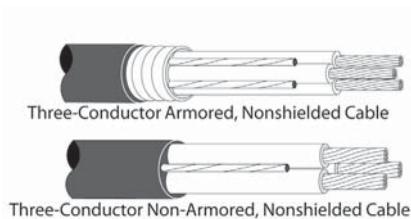
# 3M™ Resin/Cold Shrink Non-Shielded, Armored or Non-Armored Splice Kits 5750 Series

3M™ Resin/Cold Shrink 5750 Series splice kits are designed for non-shielded armored and non-armored solid dielectric cables rated up to 5 kV. Each kit makes one 3/C splice. Connectors are not included and must be ordered separately.

\* Splice diameter varies according to cable size (O.D.).

**Note: Cable sizes shown below are for standard insulation thickness. Final determining factor is cable insulation O.D.**

|                      |                                                                     |
|----------------------|---------------------------------------------------------------------|
| Voltage              | 1 kV, 5 kV                                                          |
| Number of Conductors | Three Conductor                                                     |
| Shielding Type       | Non-Armored (Non-Shielded), Armored (Non-Shielded)                  |
| Splice Type          | Inline                                                              |
| Technology           | Cold Shrink, Resin                                                  |
| Conductor Material   | Aluminum, Copper                                                    |
| RoHS 2011/65/EU      | Yes                                                                 |
| Agency Approval      | Mine Safety and Health Administrations Acceptance: 07-KA060007-MSHA |



| Order No. | UPC          | Insulation O.D. Range     | 1 kV Conductor Size, Copper or Aluminum         | 5 kV Conductor Size, Copper or Aluminum        | Splice Diameter Range*       | Typical Splice Length | Case Qty. |
|-----------|--------------|---------------------------|-------------------------------------------------|------------------------------------------------|------------------------------|-----------------------|-----------|
| 5751      | 051128-59169 | 0.50"-0.95"<br>(13-24 mm) | 1-3/0 AWG<br>(50-95 mm <sup>2</sup> )           | 6-1 AWG<br>(14-50 mm <sup>2</sup> )            | 1.5"-2.5"<br>(38,1-63,5 mm)  | 19.0"<br>(483 mm)     | 1         |
| 5752      | 051128-59168 | 0.66"-1.25"<br>(17-31 mm) | 4/0 AWG-350 kcmil<br>(120-185 mm <sup>2</sup> ) | 1/0 AWG-350 kcmil<br>(60-185 mm <sup>2</sup> ) | 2.5"-4.0"<br>(63,5-101,6 mm) | 28.0"<br>(711 mm)     | 1         |
| 5753      | 051128-59171 | 0.95"-1.80"<br>(24-46 mm) | 350-750 kcmil<br>(185-400 mm <sup>2</sup> )     | 350-750 kcmil<br>(185-400 mm <sup>2</sup> )    | 3.5"-6.0"<br>(88,9-152,4 mm) | 42.0"<br>(1067 mm)    | 1         |

## 3M™ Cold Shrink Splice Kits

### 3M™ Cold Shrink Portable Cable Splice Kits 2237A and 2238A

3M™ Cold Shrink Portable Cable Splice Kits 2237A and 2238A are designed to splice SO and SJ type portable power cables (commercial grade extension cords) which are typically used in industrial environments. The 2237A kit accommodates 4-conductor 12-10 AWG and the 2238A kit accommodates 4-conductor 8 AWG.

The primary application for the kits is splicing damaged portable cable. The kits can be used for cables aboard ships, cargo operations and a variety of industrial applications.

Each kit contains:

- Cold shrink tube
- Butt connectors
- Rubber phase
- Divider mastic strips
- Scotch® Vinyl Electrical Color-Coding Tape 35
- Instructions

|                             |                                  |
|-----------------------------|----------------------------------|
| <b>Voltage</b>              | 1000 V or less                   |
| <b>Number of Conductors</b> | Single Conductor                 |
| <b>Cable/Shielding Type</b> | SO, SJ                           |
| <b>Splice Type</b>          | Cold Shrink                      |
| <b>Application</b>          | Splicing damaged portable cable. |
| <b>RoHS 2011/65/EU</b>      | Yes                              |

| Order No. | UPC          | Conductor Size                 | Cable O.D.      | Case Qty. |
|-----------|--------------|--------------------------------|-----------------|-----------|
| 2237A     | 054007-41317 | 12-10 AWG (6 mm <sup>2</sup> ) | 0.62" (0.96 mm) | 10        |
| 2238A     | 054007-41318 | 8 AWG (10 mm <sup>2</sup> )    | 0.62" (0.96 mm) | 10        |