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For More Information Visit 3M Electric Utility Splicing Web Pages

[http://solutions.3m.com/wps/portal/3M/en\\_US/ElectricalUtility/Home/Products/Splices/](http://solutions.3m.com/wps/portal/3M/en_US/ElectricalUtility/Home/Products/Splices/)

# Splices

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3M™ Splice Solutions are designed to help you reduce the time, labor and cost involved in a variety of electrical cable splicing applications. The 3M product line covers splicing needs from 0-600V (1000V) to 46 kV applications, and promote dependable performance, stability and long life with every splice you make.

With 3M, you can choose the right splice to fit your specific needs. 3M incorporates field-proven technologies providing reliable, durable splicing products.

## Cold Shrink Splices

3M cold shrink splicing products 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. The removable core unwinds after positioning the splice, allowing the product to shrink into position and form a moisture resistant seal. The live-memory action of the specially formulated material ensures a permanent, durable environmental seal and insulation.

All 3M medium voltage (15-46 kV) QS-III kits meet the requirements of IEEE-404, and each splice is factory tested on power cable to ensure long-term reliability and quality. 3M QS-III splices can be used for direct burial applications, as well as in manholes, vaults, cable trays, and junction boxes. All 3M cold shrink products require no special tools, flame or training to install.

## Molded Rubber Splices

3M Molded Rubber QS and QS-II kits are molded from specially formulated, peroxide cured, EPDM rubber to provide a reliable medium voltage inline splice with a life expectancy equal to the cable.

All 3M medium voltage (15-35 kV) QS Series meet the requirements of IEEE-404, and each splice is factory tested.

## PILC Splices

3M cold shrink splice kits for Paper Insulated Lead Covered (PILC) cable use 3M patented oil stop technology. Kits install without soldering or lead wiping. 3M cold shrink PILC splices allow quick installation time without the need of open flame or heat. Single conductor splice kits rated 1000V and 15 kV allow inline splicing of PILC to PILC or PILC to Poly/EPR insulated cable. Three conductor cable splice kits rated 15 kV are designed to transition splice three conductor PILC to three single conductor poly/EPR insulated cables. All splices are jacketed and can be fully submersed. Modular splice kits are available for single conductor PILC equipment connections and tap splicing.

## Resin Splices

3M Resin Splicing Kits are used in a variety of applications where conditions require the unique properties of 3M resins. The splicing kits have a high degree of mechanical strength for physical protection of connections and provide moisture-resistant insulation in above ground or direct burial applications.

## Tape Splices

When you want the versatility of tape, Scotch® Cable Splicing Kits are the answer for almost any application, regardless of cable type or size. Scotch® splicing tape is designed for extra-long shelf life, so there's less chance of being caught without the supplies you need for emergencies. Tape products are available to splice cables from 600V to 69 kV.

## 3M™ SPLICES MEET WORLDWIDE STANDARDS

- ANSI—American National Standards Institute
- UL—Underwriters Laboratories
- JCAA—Japan Power Cable Authority
- IEEE—Institute of Electrical and Electronics Engineer
- CSA—Canadian Standards Association
- VDE—Verband Deutscher Elektrotechniker
- Cenelec—European Standard

# Glossary of Splicing Terms

### Splice

A splice may be considered as two or more conductors joined with a suitable connector—reinsulated, reshielded and rejacketed with compatible materials—applied over a properly prepared surface. A splice may also be referred to as a cable joint.

### High Voltage Cable Types

Of the nearly limitless variety of cables in use today, seven of the most common are:

- Tape shielded (or ribbon shielded)
- Drain wire shielded
- General Cable UniShield® Cable
- Longitudinally Corrugated (LC)
- Concentric Neutral (CN)
- Jacketed Concentric Neutral (JCN)
- Paper Insulated Lead Covered (PILC)

See page 314 for illustrations.

### Insulation

A layer consisting of many different variations such as extruded solid dielectric, or laminar (oil paper or varnish cambric). Its function is to contain the voltage within the cable system. The most common solid dielectric insulations in use today are:

- Cross-Linked Polyethylene (XLP)
- Ethylene Propylene Rubber (EPR)

## CHOOSING THE RIGHT SPLICES

Questions to ask yourself before ordering a splicing product

What Is Voltage Rating?      1 kV \_\_\_ 5 kV \_\_\_ 8 kV \_\_\_ 15 kV \_\_\_ 25/28 kV \_\_\_ 35 kV \_\_\_ 46 kV \_\_\_ Other \_\_\_

What Is Insulation Level?      100% \_\_\_ 133% \_\_\_

What Is Conductor Size?      \_\_\_\_\_ AWG/kcmil

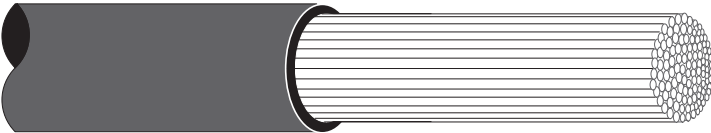
What Type of Metallic Shielding?      (tape, drain wire, UniShield®, LC Shielded, Jacketed Concentric Neutral, other) \_\_\_\_\_  
None \_\_\_\_\_

What Is Conductor Material?      Copper (Cu) \_\_\_\_\_ Aluminum (Al/Cu) \_\_\_\_\_

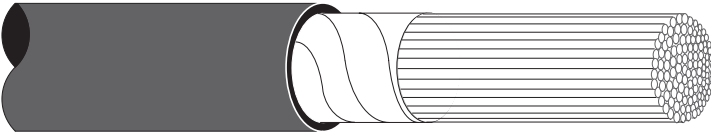
# Cable Types for Splicing



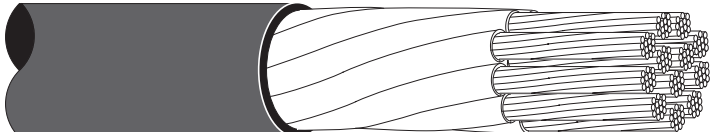
Single Conductor Cable



Multiple Conductor Unshielded Signal and Control Cable



Multiple Conductor Shielded Signal and Control Cable



Multiple Conductor, to 1000 Volt, Cable

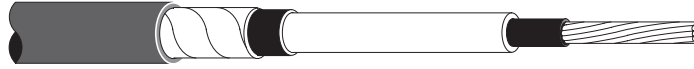


Non Shielded (Dry) Cable

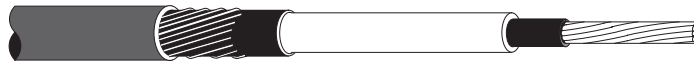


Non Shielded (Wet or Dry) Cable

# Cable Types for Splicing



Tape Shielded Cable



Wire Shielded Cable



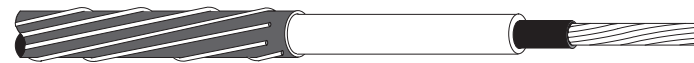
UniShield® Cable



Longitudinally Corrugated (LC) Shielded Cable



EP-Lead or XLP-Lead Cable



Concentric Neutral (CN) Cable

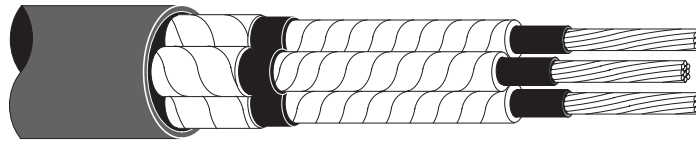


Jacketed Concentric Neutral (JCN) Cable

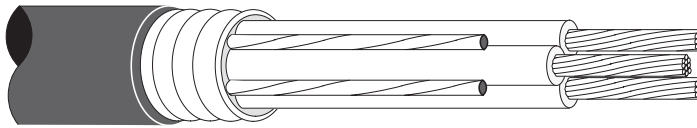


Paper Insulated Lead Covered (PILC) Cable

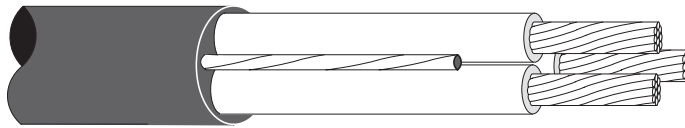
# Cable Types for Splicing



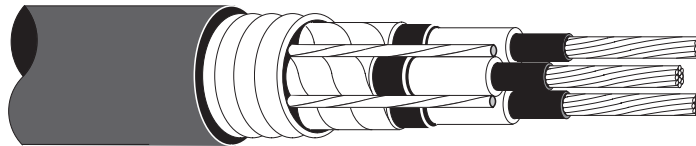
Three-Conductor Paper Insulated Lead Covered (PILC) Cable



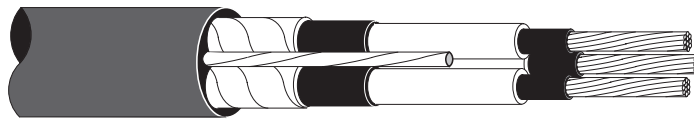
Three-Conductor Armored, Non Shielded Cable



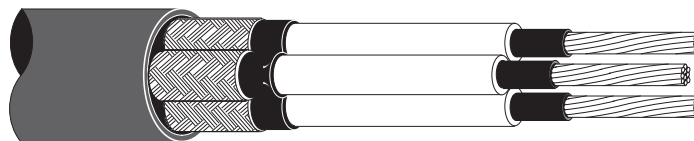
Three-Conductor Non-Armored, Non Shielded Cable



Three-Conductor Armored, Shielded Cable



Three-Conductor Non-Armored, Shielded Cable



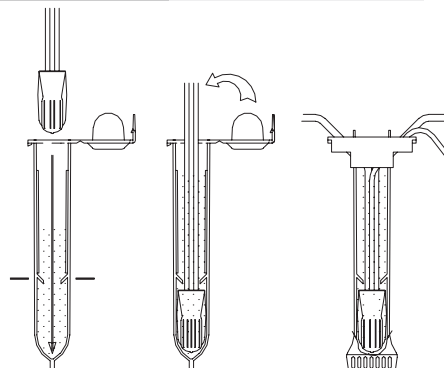
Three-Conductor Portable Cable Type SHD-GC



# Low Voltage Splices 0-600V DBR and DBY Series

## 3M™ Direct Bury Products

These 3M underground electrical wire connectors are designed to splice and effectively moisture-seal two or more conductors for remote-control circuits in irrigation and landscape lighting systems. DBY-6 and DBR-6 are UL Listed and CSA Certified for 600V direct bury and submersion applications. UL File No. E102356 and CSA File No. LR91920. Each kit makes two splices.



## Specification Information for 3M Direct Bury Products

Product Number	Description and Kit Contents	Wire Range (AWG)	Volts	Temperature Range	UL File No. E102356 and CSA File No. LR91920
DBR	(2) Tubes (2) 3M Scotchlok™ R Connectors	5#16 thru 3#10 (5,0 thru 16,0 mm <sup>2</sup> )	30	32°-120°F (0°-49°C)	N/A
DBR-6	(2) Tubes (2) Scotchlok R Connectors	5#16 thru 3#10 (5,0 thru 16,0 mm <sup>2</sup> )	600	32°-120°F (0°-49°C)	CE UL SR
DBY	(2) Tubes (2) Scotchlok Y Connectors	2-5#18 thru 2#12 (2,0 thru 7,5 mm <sup>2</sup> )	30	32°-120°F (0°-49°C)	N/A
DBY-6	(2) Tubes (2) Scotchlok Y Connectors	2-5#18 thru 2#12 (2,0 thru 7,5 mm <sup>2</sup> )	600	32°-120°F (0°-49°C)	CE UL SR
3570-G	Connector sealing pack containing 3M Scotchcast™ epoxy resin	Accommodates 3M 0/B+, R/Y+, Scotchlok Y, R, G, B and 3M 212, 312, 512	600	32°-220°F (0°-105°C)	N/A

## 3M™ Direct Bury Low Voltage Splices DBR and DBY Selection

Product Number	UPC (054007-)	Inner Unit Pack	Case Qty.
DBR	09964	Kit- 2 Tubes and 2 Scotchlok R Connectors	25 kits
	49696	100 tubes and 100 connectors	100 each
DBR-6	69756	Kit- 2 Tubes and 2 Scotchlok R Connectors	25 kits
	49697	100 tubes and 100 connectors	100 each
DBY	09053	Kit- 2 Tubes and 2 Scotchlok Y Connectors	25 kits
	49698	100 tubes and 100 connectors	100 each
DBY-6	69757	Kit- 2 Tubes and 2 Scotchlok Y Connectors	25 kits
	49699	100 tubes and 100 connectors	100 each
3570-G	53241*	10/box	100 each

\*UPC Prefix 051128-

# Low Voltage Splices 0-600V (1000V rated) Cold Shrink Splices (0-1000V)

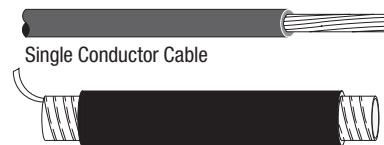
## 3M™ Splice Kits 8420 and 8430 Series

Cold shrink splicing products are designed using 3M's unique 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 material promotes a permanent, durable environmental seal and insulation.

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

## 3M™ Cold Shrink Silicone Insulators 8440 Series

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



## 3M™ Low Voltage Splices 8420 and 8430 Series Selection (0-600V)

Product Series	UPC (054007-)	Typical Conductor Size	Minimum Cable Diameter for Seal	Maximum** Diameter Insulator Covers	Maximum Connector Length	Relaxed Tube Length	Inner Unit Pack	Case Qty.
Single Conductor Cable See above for cable type illustration.								
8423-6	42146	6-4 AWG (14-16 mm <sup>2</sup> )	0.31" (7,8 mm)	0.56" (4,3 mm)	2" (51 mm)	6" (152 mm)	1/bag	10
8424-8*	42390	10-1/0 AWG (6-16 mm <sup>2</sup> )	0.10" (2,5 mm)	0.82" (20,9 mm)	3" (76 mm)	8" (203 mm)	1/bag	10
8425-8	42391	2-1/0 AWG (35-50 mm <sup>2</sup> )	0.40" (10,1 mm)	0.82" (20,9 mm)	3" (76 mm)	8" (203 mm)	1/bag	10
8426-9	34457	2/0 AWG-250 kcmil (70-125 mm <sup>2</sup> )	0.55" (13,9 mm)	1.18" (30,1 mm)	5" (127 mm)	9" (229 mm)	1/bag	10
8426-9M***	43436	2-4/0 AWG (30-90 mm <sup>2</sup> )	0.40" (10,1 mm)	1.18" (30,1 mm)	5" (127 mm)	9" (229 mm)	1/bag	10
8426-11	34458	2/0 AWG-250 kcmil (70-125 mm <sup>2</sup> )	0.55" (13,9 mm)	1.18" (30,1 mm)	7" (178 mm)	11" (279 mm)	1/bag	10
8427-6†	09915	—	0.69" (17,5 mm)	1.38" (35,1 mm)	2" (51 mm)	6" (152 mm)	1/bag	10
8427-12	34459	250-400 kcmil (125-200 mm <sup>2</sup> )	0.69" (17,5 mm)	1.38" (35,1 mm)	8" (203 mm)	12" (305 mm)	1/bag	10
8427-16	34460	250-400 kcmil (125-200 mm <sup>2</sup> )	0.69" (17,5 mm)	1.38" (35,1 mm)	12" (305 mm)	16" (406 mm)	1/bag	10
8428-6†	09916	—	0.95" (24,1 mm)	1.94" (49,2 mm)	2" (51 mm)	6" (152 mm)	1/bag	10
8428-12	09056	500-800 kcmil (300-400 mm <sup>2</sup> )	0.95" (24,1 mm)	1.94" (49,2 mm)	8" (203 mm)	12" (305 mm)	1/bag	10
8428-18	34461	500-800 kcmil (300-400 mm <sup>2</sup> )	0.95" (24,1 mm)	1.94" (49,2 mm)	14" (356 mm)	18" (457 mm)	1/bag	10
8429-6†	09917	—	1.27" (32,2 mm)	2.67" (67,8 mm)	2" (51 mm)	6" (152 mm)	1/bag	10
8429-9	09931	900-1000 kcmil (500 mm <sup>2</sup> )	1.27" (32,2 mm)	2.67" (67,8 mm)	5" (127 mm)	9" (229 mm)	1/bag	10
8429-12	42389	900-1000 kcmil (500 mm <sup>2</sup> )	1.27" (32,2 mm)	2.67" (67,8 mm)	8" (203 mm)	12" (305 mm)	1/bag	10
8429-15	44198	900-1000 kcmil (500 mm <sup>2</sup> )	1.27" (32,2 mm)	2.67" (67,8 mm)	11" (279 mm)	15" (381 mm)	1/bag	10
8429-18	34462	900-1000 kcmil (500 mm <sup>2</sup> )	1.27" (32,2 mm)	2.67" (67,8 mm)	14" (356 mm)	18" (457 mm)	1/bag	10
8430-9	42147	1250-2000 kcmil	1.68" (42,6 mm)	3.69" (93,7 mm)	5" (127 mm)	9" (229 mm)	1/bag	10
8430-18	42388	1250-2000 kcmil	1.68" (42,6 mm)	3.69" (93,7 mm)	14" (356 mm)	18" (457 mm)	1/bag	10

\*Kit contains adapters. \*\*Cable or connector diameter. \*\*\*Mastic pads included for cable O.D. build-up.

† 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. Important: Use insulation jacket or connector O.D. for final ordering criteria. Note: Additional sizes are available, consult your 3M sales representative.

## 3M™ Low Voltage Splices 8440 Series Selection (0-600V)

Product Series	UPC (054007-)	Typical Conductor Size	Minimum Cable Diameter for Seal	Maximum* Diameter Insulator Covers	Relaxed Tube Length	Inner Unit Pack	Case Qty.
Single Conductor Cable See page 314 for cable type illustration.							
8443-2	09485	6-2 AWG (14-30 mm <sup>2</sup> )	0.27" (7 mm)	0.56" (14 mm)	2.0" (51 mm)	1/bag	12
8443-6.5	09482	6-2 AWG (14-30 mm <sup>2</sup> )	0.27" (7 mm)	0.56" (14 mm)	6.5" (165 mm)	1/bag	12
8445-2.5	09486	2-1/0 AWG (35-50 mm <sup>2</sup> )	0.35" (9 mm)	0.72" (18 mm)	2.5" (64 mm)	1/bag	12
8445-7.5	09483	2-1/0 AWG (35-50 mm <sup>2</sup> )	0.35" (9 mm)	0.72" (18 mm)	7.5" (191 mm)	1/bag	12
8447-3.2	09487	1/0-3/0 AWG (60-80 mm <sup>2</sup> )	0.48" (12 mm)	0.95" (24 mm)	3.2" (81 mm)	1/bag	12
8447-8	09484	1/0-3/0 AWG (60-80 mm <sup>2</sup> )	0.48" (12 mm)	0.95" (24 mm)	8.0" (203 mm)	1/bag	12

\*Cable or connector diameter.  
Note: Additional sizes are available, consult your 3M sales representative.

## PRODUCT REFERRAL GENERATOR

Cold Shrink End Caps..... pg. 401

### 3M™ Cold Shrink Low Voltage Connector Insulator QSLV-M Series

The 3M Cold Shrink Connector Insulator QSLV-M Series provides quick, consistent installation and impact resistance for direct bury secondary low-voltage applications. The unique 3-core design and factory-installed ring of sealing mastic inside each end of the tube protects the connection and increases the range-taking capability of the QSLV-M insulator.



The QSLV-M insulator meets requirements for ANSI C119.1.

### 3M Cold Shrink Low Voltage Connector Insulator QSLV-M Series Selection

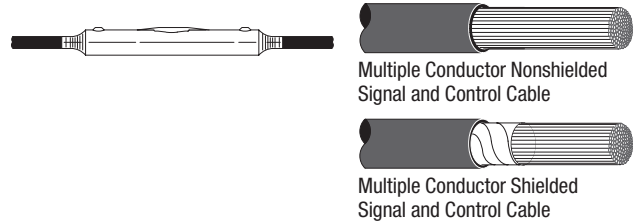
Product Series	UPC 051128-	Cable Size Range		Cable Insulation O.D. Range in. (mm)	Max. Connector O.D. in. (mm)	Max. Connector Length in. (mm)
		Aluminum	Copper			
QSLV-M 8-2/0	57268	8-2/0	8-3/0	0.20-0.75" (5-19 mm)	0.687" (17 mm)	2.5" (63 mm)
QSLV-M 2-500	57269	2-500	2-1000	0.40-1.60" (10-41 mm)	1.500" (38 mm)	4.25" (108 mm)

# 3M™ Resin Signal and Control Cable Splices 0-600V (1000V rated)

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

3M Scotchcast Kits 72-N Series splice shielded or nonshielded plastic- and rubber-jacketed, signal and control cables rated up to 1 kV.

**Connectors are not included, order separately.** See page 108-110 in the “Insulated Butt Connectors” section for connector ordering information. Each kit makes one splice.



## 3M™ Scotchcast™ 72-N Series Selection (Based on Cable O.D. Size)

Product Series	UPC (054007-)	Molded Body Length	Cable O.D. Range	Inner Pack	Case Qty.
Multiple Conductor Nonshielded Signal and Control Cable, Multiple Conductor Shielded Signal and Control Cable See above for cable type illustrations.					
72-N1*	10623	7-1/8" (18,1 cm)	0.25-0.625" (6-16 mm)	1	10
72-N2	10625	10-7/16" (26,8 cm)	0.500-1.00" (13-25 mm)	1	10
72-N3	10627	15-7/16" (39,2 cm)	0.625-1.50" (16-38 mm)	1	10
72-N4	10629	15-5/8" (39,7 cm)	1.00-2.00" (25-51 mm)	—	1
72-N5	10631	20-5/16" (51,6 cm)	1.25-2.25" (32-57 mm)	—	1
72-N6	10633	25" (63,5 cm)	1.25-3.25" (32-83 mm)	—	1

\* Nonshielded cable only.

## 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

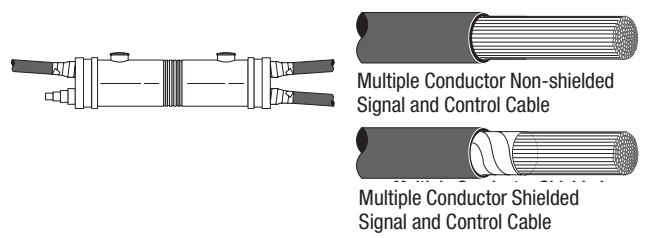
\*Nonshielded cable only.

\*\*Figures based on IMSA cable specifications.

# 3M™ Resin Signal and Control Cable Splices 0-600V (1000V rated)

## 3M™ Scotchcast™ Reenterable Inline and Tap Splice Kits 78-R Series

3M Scotchcast 78-R Series Kits make inline or tap splices on shielded or nonshielded, plastic- and rubber-jacketed, signal and control cable rated up to 1 kV. **Connectors are not included, order separately.** Refer to the “Terminals, IDCs and Wire Connectors” section for ordering information. Each kit makes one splice.



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

Product Series	UPC (051128-)	Kit Size		Cable O.D. Range		Case Qty.
		I.D. x L	Run	Tap		
Multiple Conductor Nonshielded Signal and Control Cable, Multiple Conductor Shielded Signal and Control Cable See above for cable type illustrations.						
78-R1	55115	2 x 12" (5,1 x 30,5 cm)	0.25-1.00" (6-25 mm)	0.25-1.00" (6-25 mm)	1	
78-R2	55116	2 x 24" (5,1 x 61,0 cm)	0.25-1.00" (6-25 mm)	0.25-1.00" (6-25 mm)	1	
78-R3	55117	3 x 24" (7,6 x 61,0 cm)	0.50-1.50" (13-38 mm)	0.50-1.00" (13-25 mm)	1	
78-R4	55118	4 x 24" (10,2 x 61,0 cm)	0.50-2.00" (13-51 mm)	0.50-1.75" (13-44 mm)	1	
78-R5	55119	5 x 26" (12,7 x 66,0 cm)	1.00-2.50" (25-64 mm)	1.00-2.50" (25-64 mm)	1	

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

Scotchlok™ Connectors																		
Kit No.	Insulated Butt Connectors						Pigtail Connectors						Tap Connectors					
	MV18BC 22-18 AWG		MV14BC 16-14 AWG		MV10BC 12-10 AWG		"Y" 18-12 AWG		"R" 14-10 AWG		557 22-18 AWG		558 22-18 AWG		560 18-14 AWG		562 12-10 AWG	
	No Cond.	No Pairs	No Cond.	No Pairs	No Cond.	No Pairs	No Cond.	No Pairs	No Cond.	No Pairs	No Cond.	No Pairs	No Cond.	No Pairs	No Cond.	No Pairs	No Cond.	No 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.

## Components for Use After Re-entering

Product Number	Product Description	UPC 051128-	Case Qty.
7820	Spacer Web, two 3" x 20' rolls/box (76 mm x 6,1m)	02415*	1
2123-C	Scotchcast Reenterable Compound Size C 12.3 oz. (350g), 23.7 cu. in. (338,3 cu. cm.)	55120	10
2123-D	Scotchcast Reenterable Compound Size D 21.2 oz. (600g), 40.6 cu. in. (665,3 cu. cm.)	55121	10

\*UPC prefix 054007-

Strengthens  
connections  
and cuts  
costs



# 3M™ Resin Splices 0-600V (1000V rated)

## 3M™ Scotchcast™ Multi-Mold Resin Splice Kit 85-14CP-Cathodic Protection

The 3M Scotchcast Multi-Mold Resin Splice Kit 85-14CP is rated for cables up to 1 kV to insulate odd-shaped and odd-sized splices. The 85-14CP is specifically designed for use in cathodic protection with a rigid epoxy resin, 3M™ Scotchcast 4. Each kit makes one splice.



Single Conductor Cable

## 3M™ Scotchcast™ Multi-Mold Resin Splice Kit 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. Each kit makes one splice.



Single Conductor Cable

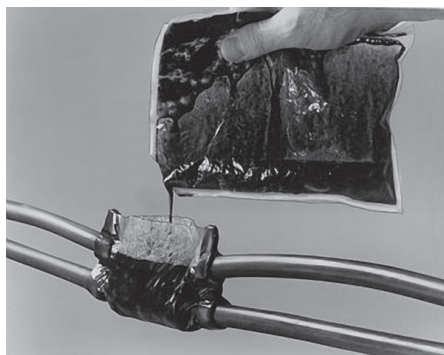


Multiple Conductor Cable

## 3M™ Scotchcast™ 85 Series Selection

Product Series	UPC (054007-)	Maximum Conductor Size Split Bolt	Compression, H or C tap	Inner Pack	Case Qty.
Single Conductor Cable See above for cable type illustrations.					
85-14CP	31927	2/0 AWG stranded	4/0 AWG stranded	1/box	10
Single Conductor Cable, Multiple Conductor, to 1000 Volt, Cable See above for cable type illustrations.					
85-10	11846	8 AWG stranded	4 AWG stranded	1/box	10
85-12	11847	1 AWG stranded	2/0 AWG stranded	1/box	10
85-14	11848	2/0 AWG stranded	4/0 AWG stranded	1/box	10
85-16	02403	750 kcmil stranded* 250 kcmil (run) 2/0 AWG stranded (tap)	500 kcmil (run) 4/0 AWG stranded (tap)	1/box	10

\*Inline compression connector.



# 3M™ Resin Splices 0-600V (1000V Rated)

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

3M Scotchcast Wye Resin Splice Kit 90-B1 is designed to insulate and moisture-seal wye splices made with the split-bolt type connectors on cables rated through 1 kV. Each kit makes one splice.



Single Conductor Cable



Multiple Conductor Cable



## 3M™ Scotchcast™ Splice 90-B1 Selection

Product Series	UPC (054007-)	Cable O.D. Range		Maximum Connector		Inner Pack	Case Qty.
		Run	Tap	Split Bolt	Crimped		
Single Conductor Cable, Multiple Conductor, to 1000 Volt, Cable See above for cable type illustrations.							
90-B1	25115	0.500-0.812" (13-21 mm)	0.375" max. (10 mm)	1/0 AWG	2/0 AWG	1/box	10

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

3M Scotchcast Flexible Power Cable Tap Splice Kit 82-BF1 is for use on unshielded portable power cables and cords. 82-BF1 can be used on single conductor or multiple conductor cables using a compression “C” tap connector. 3M molds 82-BF1 are removable and reusable. The 82-BF1 is a permanent splice as assigned by the Mine Safety and

Health Administration (P-142-5 MSHA). **Connectors are not included, order separately.** See page 147 in the “Lugs & Connectors” section for ordering information. Each kit makes one splice.



Single Conductor Cable



Multiple Conductor Cable

## 3M™ Scotchcast™ Tap Splice Kit 82-BF1 Selection

Product Series	UPC (054007-)	Conductor Size	Cable O.D. Range	Inner Pack	Case Qty.
Single Conductor Cable, Multiple Conductor, to 1000 Volt, Cable See above for cable type illustrations.					
82-BF1	08309	Up to 1/0 AWG (50 mm <sup>2</sup> )	0.25-0.80" (6,4-20,3 mm)	1/box	10



# Resin



## 3M™ Scotchcast™ Electrical Insulating Resin 4

3M Scotchcast Electrical Insulating Resin 4 is a two-part epoxy insulating and encapsulating resin packaged in five sizes. Use 3M Scotchcast Resin 4 to splice solid dielectric and oil-filled cables up to 8 kV. Flash point: 300°F (149°C) or higher.



## 3M™ Scotchcast™ Electrical Insulating and Sealing Compound 2104

3M Scotchcast Electrical Insulating and Sealing Compound 2104 is a two-part, low-viscosity polyurethane for permanent splice protection. This resin is included in the multi-mold splicing kits.



## 3M™ Scotchcast™ Reenterable Electrical Insulating and Sealing Compound 2123

Shield electrical connections against water damage with 3M Scotchcast Reenterable Electrical Insulating and Sealing Compound 2123, the most effective moisture protection available. Unique mix-in-the-bag preparation of this polybutadiene resin makes the resin easy to prepare and apply. The visible, re-enterable moisture seal is a

reliable barrier against the constant exposure to water in certain applications. Often used for potting flush mounted junction boxes.



## 3M™ Scotchcast™ Flame Retardant Compound 2130

3M Scotchcast Flame Retardant Compound 2130 is a flexible, permanent, urethane resin used for jacket repair or splicing portable cables. It is flame retardant.



## 3M™ Scotchcast™ Wet-Niche Potting Compound 2135

3M Scotchcast Wet-Niche Potting Compound 2135 is the first “listed” product that meets NEC requirements to allow the use of rigid nonmetallic conduit in the installation of wet-niche underwater lighting fixtures. 2135 provides protection against corrosion and possible deteriorating effects of pool water by reliably encapsulating the 8 AWG ground connection in a wet-niche shell. The wet-niche forming shell is a corrosion-resistant metal housing for underwater fixtures in permanently installed pools. **Article 680-20(b)(1) National Electrical Code. UL Listed 2L02.**

Scotchcast 2135 potting compound is packaged in an easy-mix 1.8-oz. Unipak container. This thixotropic resin will not sag or drip. The encapsulated connection gels in minutes and can be submerged within four hours. Each kit contains enough material to complete one fixture.

## Specifications and Ordering Information for 3M™ Scotchcast™ Resins

Product Number	UPC (054007-)	Size/Type of Package	Inner Unit Pack	Case Qty.
<b>3M Scotchcast Electrical Insulating Resin 4</b>				
4-A	43165	A/3.2 oz. (90 g), 4.8 cu. in. (78,6 cu. cm)	–	10 cont.
4-B	43166	B/7.4 oz. (209 g), 11.2 cu. in. (183,5 cu. cm)	–	10 cont.
4-C	43167	C/14.7 oz. (418 g), 22.3 cu. in. (365,4 cu. cm)	–	10 cont.
4-D	04206	D/22.2 oz. (630 g), 33.6 cu. in. (550,6 cu. cm)	–	10 cont.
4-E	04207	E/10.4 oz. (294 g), 15.7 cu. in. (257,2 cu. cm)	–	10 cont.
<b>3M Scotchcast Electrical Insulating and Sealing Compound 2104</b>				
2104-A	31189	A/3.46 oz. (98 g), 5.7 cu. in. (93,4 cu. cm)	–	10 each
2104-B	31382	B/7.4 oz. (210 g), 12.6 cu. in. (206,4 cu. cm)	–	10 cont.
2104-C	31383	C/14.82 oz. (420 g), 25.4 cu. in. (416,2 cu. cm)	–	10 cont.
2104-D	11849	D/23.8 oz. (675 g), 40.8 cu. in. (668,5 cu. cm)	–	10 each
<b>3M Scotchcast Reenterable Electrical Insulating and Sealing Compound 2123</b>				
2123-C	55120*	C/12.3 oz. (350 g), 23.7 cu. in. (338,3 cu. cm)	1/box	10 each
2123-D	55121*	D/21.2 oz. (600 g), 40.6 cu. in. (665,3 cu. cm)	1/box	10 each
<b>3M Scotchcast Flame Retardant Compound 2130</b>				
2130-B	31401	B/7.6 oz. (216 g), 10.7 cu. in. (175,3 cu. cm)	1/box	10 each
2130-C	31402	C/21.7 oz. (616 g), 30.5 cu. in. (499,8 cu. cm)	1/box	10 each
2130 Part A	50237	A/5 gal. (18,93 L)	–	1 pail
2130 Part B	50238	B/5 gal. (18,93 L)	–	1 pail
<b>3M Scotchcast Wet-Niche Potting Compound 2135</b>				
2135	69798	F/1.83 oz. (52,5 g), 3.3 cu. in. (54,0 cu. cm)	1/box	10 each
<b>3M Scotchcast Cable Repair Compound 2135M</b>				
2135M	50433	F/6.9 oz. (195 g), 12.25 cu. in. (31,12 cu. cm)	–	10 each
*UPC prefix 051128-				

# 5/8 kV, 15 kV and 25 kV Resin Pressure System

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.

## 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.

A resin pressure system splice is suitable for submerged locations (e.g., manholes and vaults), underground direct burial, and aerial applications. Detailed instructions containing bill-of-materials are available by contacting the 3M Electrical Products Division's Energy Helpline

at (512) 984-5000. All parts are ordered separately. See “Insulating and Splicing Tapes,” “Cable Accessory Products” and “Cable Accessory Products—Preparation and Cleaning” for ordering information on other parts for TapeCast Systems. Contact your local 3M representative for further details.

## 3M Resin Pressure System Components

Product	UPC (054007-)	Description	Case Qty.
4-B	43166	Scotchcast Electrical Insulating Resin 4 (7.4 oz./209 gm)	10
4-C	43167	Scotchcast Electrical Insulating Resin 4 (14.7 oz./418 gm)	10
E-4	25701	Scotchcast Resin-Pressure Gun (reusable tool)	1
P-1B*	11857	Scotchcast Injection Fitting	5
P-5B*	11858	Scotchcast Nozzle	5
P-3	25735	Scotchcast Spacer Tape	50
P-4	25743	Scotchcast Restricting Tape	50

\* Ordered by the box; each box contains 10 fittings or nozzles

# Heat Shrink Splices 0-600V

## 3M™ Splice Kit UF



3M Splice Kit UF is designed to provide a reliable, moisture proof electrical connection for Type U.F.-B underground feeder cable rated for 600 volts ranging from #14/3 without ground wire up to #8/3 with ground wire.

The 3M Splice Kit UF 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 ground or two solid conductors with a ground. They range in size from 8 AWG to 14 AWG. The most common UF cable size is 10-14 AWG.

The 3M UF Splice Kit is offered in two versions: UF1 Standard Kit includes a 1.8" length terminal connector and an 8" length of heavy-wall, adhesive-lined heat shrink tube. UF2 Stretcher Kit has an 11.7" terminal connector and a 20" length of heavy-wall, adhesive-lined heat shrink tube.

The Standard Kit is used in most of the applications. The Stretcher Kit is used in situations where a 7-10" section of the cable has been damaged or destroyed. It eliminates two connectors and a short piece of cable during repair.

## Ordering Information for 3M UF Splice Kits

Product Number	UPC (054007-)	Description	Inner Unit Pack	Case Qty.
UF1	42920	UF Splice Kit-Standard 1.8" connector/8" heat shrink tube	—	6 kits/cs.
UF2	42921	UF Splice Kit-Stretcher 11.7" connector/ 20" heat shrink tube	—	6 kits/cs.

## Ordering Information for 600V Inline Splice Kits, for Flat Cable USEB90

Product Number	UPC (051141-)	Description	Case Qty.
USEB90-2	03449	Conductor Size #2 AWG	5 kits/cs.
USEB90-1/0	03448	Conductor Size 1/0 AWG	5 kits/cs.
USEB90-2/0	03450	Conductor Size 2/0 AWG	5 kits/cs.
USEB90-4/0	03451	Conductor Size 4/0 AWG	5 kits/cs.
9CK-FCM-1 • uses Scotchcast Resin	64031*	Conductor Size 1/0-4/0 AWG Mould length 14" (355 mm) Cable Type USEB-90	1 kit/cs.
9CK-FCM-2 • uses Scotchcast Resin	64032*	Conductor Size #2-1/0 AWG Mould length 10.25" (260 mm) Cable Type USEB-90	1 kit/cs.

\* UPC prefix 054007-  
For USEB90, these products are only available in Canada.

## 3M™ Airport Lighting Connector Sealing Kit IAL-3

3M Airport Lighting Connector Sealing Kit IAL-3 is designed especially to meet the high demands on airport lighting connections. It meets specifications for sealing FAA Specification L-823 connectors. Each kit includes a 16-inch heat shrinkable sleeve, cleaning pad and instructions.

### Specification and Ordering Information for 3M Airport Lighting Connector Sealing Kit IAL-3

Product Number	UPC (054007-)	Expanded/Recovered I.D.	Inner Unit Pack	Case Qty.
IAL-3	08862	1.38/0.38" (34/10 mm)	1/bag	30

# 1 kV to 5 kV Non-Shielded Resin Splices

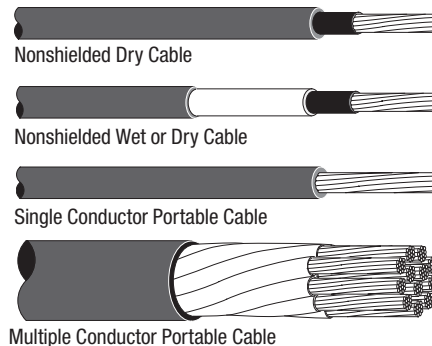
## 3M™ Scotchcast™ Inline Resin Splice Kit 82-A Series



Use the 3M Scotchcast Inline Resin Kit 82-A Series to insulate and seal single conductor, unshielded cable splices through 5 kV and multiple conductor cables through 1 kV.

The 82-A series is UL Listed 486D,

File Number E102356. Connector is not included, order separately. Each kit makes one splice.



## 3M Scotchcast Inline Resin Kit 82-A Series Selection

Product Series	UPC (054007-)	Maximum Cable O.D.	Maximum Connector O.D.	Conductor Size*	Inner Pack	Case Qty.
Non-Shielded Dry Cable, 5 kV, Nonshielded Wet or Dry Cable, 5 kV, Single Conductor Cable to 1000 Volt, Multiple Conductor, to 1000 Volt, Cable See above for cable type illustrations.						
82-A	25016	0.750" (19 mm)	0.406" (10 mm)	10-2 AWG (6-30 mm <sup>2</sup> )	1/box	10
82-A1	25024	0.625" (16 mm)	0.406" (10 mm)	Up to 2 AWG (30 mm <sup>2</sup> )	1/box	10
82-A2	25032	1.000" (25 mm)	0.625" (16 mm)	2-3/0 AWG (35-80 mm <sup>2</sup> )	1/box	10
82-A3	25040	1.563" (40 mm)	1.000" (25 mm)	3/0-400 kcmil** (95-200 mm <sup>2</sup> )	1/box	10

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

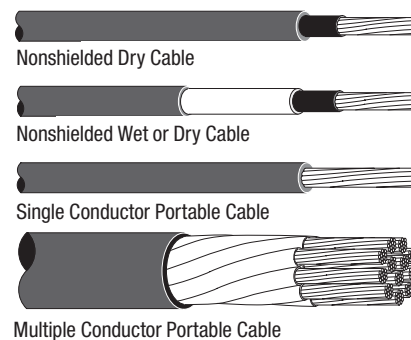
\*\* 500 kcmil when using a Scotchlok 10014 copper compression connector.

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



3M Scotchcast Wye Resin Splice Kit 82-B1 is designed to insulate and seal 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. Each kit makes one splice.



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

Product Series	UPC (054007-)	Voltage Rating	Maximum Connector		Cable O.D.	Inner Pack	Case Qty.
			Split Bolt	Crimped			
Non-Shielded Dry Cable, Nonshielded Wet or Dry Cable, Single Conductor Cable, Multiple Conductor to 1000 Volt Cable. See above for cable type illustrations.							
82-B1	25057	5 kV Single Conductor 1 kV Multiple Conductor	4 AWG	2 AWG	0.250-0.625" (6-16 mm)	1/box	10

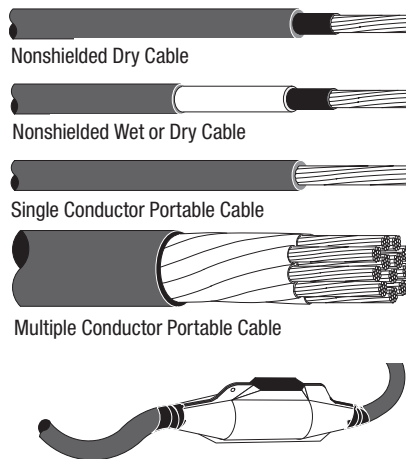
# 1/C, 5 kV, Non-Shielded Resin Splices & Multi/C, 1kV, Non-Shielded Resin Splices

## 3M™ Scotchcast™ Inline Splice Kit for Flexible Power Cable 82-F1 and 82-F2

3M Scotchcast Kits 82-F1 and 82-F2 are for use on unshielded, portable power cables. The kits are rated up to 5 kV for single conductor and up to 1 kV for multiple conductors. The kits are designed to be used with inline compression connectors.

The Scotchcast kits 82-F series are permanent splices as assigned by the Mine Safety and Health Administration (P-142-5 MSHA).

Connectors are not included, order separately.



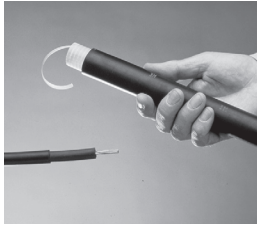
## 3M™ Scotchcast™ Kit 82-F1 and 82-F2 Inline Selection

Product Series	UPC (054007-)	Cable O.D. Range	Voltage Rating	Conductor Size	Number of Conductors	Maximum Conductor O.D.	Inner Pack	Case Qty.
Non-Shielded Dry Cable, Nonshielded Wet or Dry Cable, Portable Single Conductor Cable, Portable Multiple Conductor to 1000 Volt Cable. See above for cable type illustrations.								
82-F1	08307	0.25-0.80" (6-20 mm)	5 kV 1 kV (600/2000)*	6-1/0 AWG** (16-50 mm <sup>2</sup> )	1 multi	0.62" (18 mm) 0.90" (23 mm)	1/box	10
82-F2	08308	0.80-1.20" (20-30 mm)	5 kV 1 kV (600/2000)*	2/0-4/0 AWG** (70-95 mm <sup>2</sup> )	1 multi	0.82" (21 mm) 1.30" (33 mm)	1/box	10

\* Mine portable cable rating  
\*\*Base selection on cable O.D. range.

# 1/C, 5/8 kV, Non-Shielded Cold Shrink Splices

## 3M™ 5/8 kV Inline Splice Kit 5740 Series



3M 5/8 kV Inline Splice Kit Series are used for single conductor, non-shielded 5/8 kV cables. Each kit is a cold shrink design and contains enough material to insulate three (3) splices.



Nonshielded (Dry) Cable



Nonshielded (Wet or Dry) Cable

## 3M 5/8 kV Inline Splice Kit 5740 Series Selection

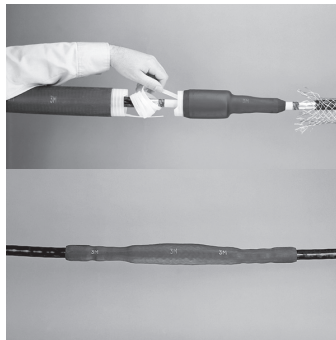
Product Series	UPC (054007-)	Conductor Size		Maximum Connector Length (Copper or Aluminum)	Typical Splice Length	Insulation/Jacket O.D. Range	Cable Case Qty.
		Copper	Aluminum				
Non-Shielded Dry Cable, Nonshielded Wet or Dry Cable See above for cable type illustrations.							
5741	49491	8-4 AWG (10-25 mm <sup>2</sup> )		2.5" (64 mm)	10" (254 mm)	0.38-0.70" (9,7-17,8 mm)	1
5742	49492	2 AWG-300 kcmil (35-150 mm <sup>2</sup> )		4.5" (108 mm)	12" (305 mm)	0.63-1.20" (16,0-30,5 mm)	1
5743	49493	350-1000 kcmil (185-500 mm <sup>2</sup> )	350-750 kcmil (185-400 mm <sup>2</sup> )	6.25" (159 mm)	15" (381 mm)	0.90-2.10" (22,9-53,3 mm)	1

Note: Be sure to order the correct size connector to complete the splice, see page 341



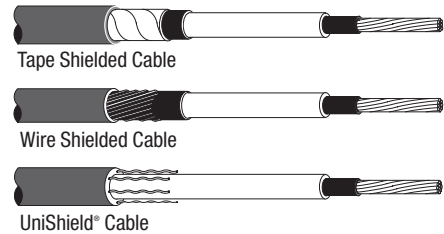
# 1/C, 5/8 kV, Shielded-Tape, Wire, and UniShield® Cold Shrink Splices

## 3M™ Splice Kits 5550 Series



3M Splice Kit 5550 Series are for splicing 5 kV and 8 kV shielded, solid dielectric, power cables. Each kit contains all the materials (except connectors and optional ground strap) required to construct three (3) single

conductor splices on Tape Shield, Wire Shield or UniShield® cables. Note: The kit can also be used to splice a shielded to a nonshielded 5-8 kV cable. Meets requirements of IEEE 404. Each kit makes three splices.



## 3M Splice Kit 5550 Series Selection

Product Series	UPC (054007-)	Conductor Size		Maximum Connector Length		Typical Splice Length	Optional Ground Strap Kit No.	Cable Case Qty.
		Copper	Aluminum	Copper	Aluminum			
Tape Shielded Cable, Wire Shielded Cable, UniShield® Cable See above for cable type illustrations.								
5551	09089	6-4/0 AWG (14-100 mm <sup>2</sup> )	6-3/0 AWG (14-80 mm <sup>2</sup> )	3.3" (84 mm)	2.7" (69 mm)	19" (483 mm)	GS-1	1
5552	09090	4/0 AWG-500 kcmil (120-250 mm <sup>2</sup> )	4/0 AWG-400 kcmil (120-200 mm <sup>2</sup> )	4.3" (109 mm)	3.7" (94 mm)	21" (533 mm)	GS-2	1
5553	09091	500-1000 kcmil (300-500 mm <sup>2</sup> )	500-1000 kcmil (300-500 mm <sup>2</sup> )	6.3" (160 mm)	5.3" (135 mm)	23" (584 mm)	GS-3	1

## 5 kV Inline Splice Kits, 1/C or Multiple Conductor Non-Shielded Cable

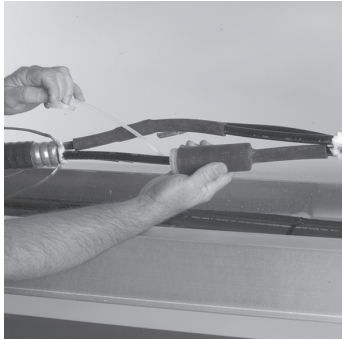
### Ordering Information for 9CK-300 Series

Product Number	UPC (054007-)	Description	Jacket Diam. Range	Inner Unit Pack
9CK-300	64860	Conductor Size Single #2-500 MCM Multiple #6-1/0 Mold length 15.75" (400 mm)	1-1.95" (25-49.5 mm)	1 kit/cs.
9CK-302	64861	Conductor Size Single #3-1250 MCM Multiple #8-4/0 Mold length 20.5" (520 mm)	0.94-2.25" (24-57 mm)	1 kit/cs.

For the 9CK-300 Series, these products are only available in Canada.

# 3/C, 600V and 1 kV, Non-Shielded Cold Shrink

## 3M™ Splices for Three-Conductor Armor Power Cable (Teck 90) 5730 Series



3M™ Low Voltage Cold Shrink Splicing Kits are applicable for indoor and outdoor installations, including direct burial, aerial and submersible applications. The 5730 series accommodates a full range of cable

sizes from 14 AWG-750 kcmil. The overall jacket diameter ranges from 0.62 to 4.00" (16 to 102 mm).

## 3M™ Low Voltage Inline Splice Kits 5730-5731

For use with 3/C or 4/C Armor Power Cable CSA Certified for 600V or less.\*

\* NRTL=CSA approved for use in the United States

## 3M™ Low Voltage Inline Splice Kits 5732-5735

For use with 3/C Armor Power Cable (Teck 90) up to 1000V.

Note: Armorcast™ 4560 (armor jacketing) is not included with these splices and must be ordered separately.

## 3M Low Voltage Inline Splice Kits 5730-5731 Series Selection

Kit Number	Cable Sizes (AWG)	Overall Jacket Diameter	UPC (054007-)	Amount of Armorcast Required*
5730	14-10	0.62-1.0" (16-25 mm)	43171	1 roll
5731	8-4	0.95-1.4" (24-36 mm)	43172	1 roll

Note: Connectors are not included in the kit. Use only CSA Certified compression connectors. Vinyl or nylon butt connectors are preferable.

\*Amount of Armorcast needed based on two half lapped layers.

Order the 15 ft. rolls.

## 3M Low Voltage Inline Splice Kits 5732-5735 Series Selection

Kit Number	Cable Sizes (AWG or kcmil)	Overall Jacket Diameter	UPC (054007-)	Amount of Armorcast Required*
5732	2-1/0	0.95-2.4" (24-61 mm)	43173	1 roll
5733	2/0-250	1.15-3.3" (29-84 mm)	43174	2 rolls
5734	250-500	1.55-4.0" (39-102 mm)	43175	2 rolls
5735	500-750	1.55-4.0" (39-102 mm)	43176	3 rolls

Note: Connectors are not included in the kit. Use only CSA Certified compression connectors.

\*Amount of Armorcast needed based on two half lapped layers.

Order the 15 ft. rolls.

## 3M™ Armorcast Structural Material 4560

The 3M Armorcast Structural Material 4560 creates maintenance free mechanical protection for power cable splices. Armorcast structural material is a flexible fiberglass knit fabric strip that has been saturated with black urethane resin syrup. It is rolled and packed dry in a sealed foil envelope.

## 3M Armorcast Structural Material 4560 Selection

Product Number	UPC (051138-)	Roll Size	Case Qty.
4560-5	57719	5'	5 rolls
4560-10	57717	10'	5 rolls
4560-15	57718	15'	5 rolls