

## 3M Cold Shrink Termination Kits

### 3M QT-II Indoor Silicone Rubber Termination Kits

#### 5620K Series

**Voltage Rating: 5-15 kV**

**Meets IEEE 48, Class 1**

The 5620K series terminations are one piece, non-skirted Cold Shrink rubber designed specifically for shielded cables, tape, wire and UniShield™ from 5kV to 15 kV indoor applications. Just five kits cover the complete application range from 8 AWG to 1500 kcmil.

The Cold Shrink delivery system of the 5620K series requires no torches or heat. You simply unwind the core and the termination shrinks tight. The series also features a mechanical groundstrap. There's no soldering and no worries about heat related cable damage.

The Hi-K stress control tube eliminates bulky stress cones, making the termination almost the same diameter as the cable. And, because they require cable cutback of only 6-1/2 to 9 inches (depending on cable and kit size), the compact design of the 5620K can be a real space saver in either an upright or inverted application. The 5620K series is an integrated, one-piece termination - no extra parts or adapters are needed. All the materials needed to make three Class 1 terminations are included in one box.



#### Selection Guide

Product	Conduct Size Range (AWG & kcmil)					Cable Insulation O.D. Range (in.)
	5 kV 100% (0.90" Insul.)	5 kV 133% 8 kV 100% (0.115" Insul.)	8 kV 133% (0.140" Insul.)	15 kV 100% (0.175" Insul.)	15 kV 133% (0.220" Insul.)	
5621K	8-4	8-6	8	-	-	0.32-0.46
5622K	2-2/0	4-1/0	6-1	-	-	0.44-0.65
5623K	2/0-250	1/0-4/0	1-3/0	4-2/0	4-1	0.56-0.87
5624K	300-750	250-750	4/0-600	2/0-500	1-350	0.78-1.30
5625K	600-1500	600-1500	500-1250	500-1250	350-1000	1.09-1.80

*Note: Because of the various factors effecting cable sizes, final kit selection is determined by cable insulation O.D.*



3M Cold Shrink sheath seal kits 5841 and 5842 are designed to seal the sheath area for three conductor cables without ground wires. They will handle copper or aluminum cable from #2 AWG through 500 kcmil (35-250 mm<sup>2</sup>). No heat is required when using these kits.

Each kit contains:

- 1) Molded sheath seal body
- 2) Instructions

Each kit makes one seal.

### Cold Shrink™ 5841 and 5842 Sheath Seal Kits

FEATURES	ADVANTAGES	BENEFITS
One piece termination Cold Shrink Technology	Installs Quickly Proven on Global Basis Maintains reliable interface	Saves Money Recognition, Reliable Saves Money
Expanded Silicone Insulator on Core	Accommodates Wide Range of Cable Sizes	Saves Money
Silicone Insulator	Track Resistant. Minimizes Leakage Currents in Wet Conditions	Saves Time & Money Reliable
Light Weight Uneven Skirt Diameter	Can be free hung-no brackets Optimize Performance Under Heavy Rain Conditions	Saves Money Saves Time & Money
High-k Stress Relief	Gives Lower Surface Stress and provides a More Compact Unit	Saves Money
Compact Design	Less Space Required Maybe used in Crowded places/ Manholes	Saves Money
Extended Base	Provides Seal at Termination Base	Saves Money
Complete Kits	Everything Needed in a Box	Saves time and Makes the Job Easier

## Termination Kits

### 3/C Cable Breakout Boots 3/C Phase Rejacketing System

3M™ Cold Shrink Silicone Rubber 8560 Series 3/C Cable Breakout Boots and 3M™ Silicone Rubber RJS Series 3/C Phase Rejacketing Systems are designed to be used in conjunction with 3M terminations, to seal the breakout area and re-jacket the phases on three conductor cable.

#### 3M Cold Shrink Silicone Rubber 8560 Series 3/C Cable Breakout Boots

3M 8561 through 8565 Silicone Cold Shrink Cable Breakout Boots are a series of open-ended molded rubber sealing assemblies that are factory expanded and mounted on removable inner-supporting plastic ores. They are supplied for field installation in a pre-stretched condition.

8560 Series Breakout Boots are designed to protect the phase leg breakout of 3/C medium voltage power cable from exposure to moisture, contamination, corrosion, ozone, ultraviolet radiation, physical contact and other hazards associated with 3/C termination operating environments.

#### Features and Benefits:

- Versatile; installs quickly and accommodates a wide range of cable sizes.
- Simple hand application; no need for special installation tools.
- No torches or heat required.



- No specific user skills or craftsmanship required.
- Excellent resistance to ozone and ultra-violet radiation.
- High dry and wet insulation resistance.
- Highly flexible; accommodates all power cable supplier bend radius recommendations.
- Seals tight; retains resiliency and pressure even after prolonged years of aging and exposure.
- Compatible with all 3M Cold Shrink Termination

#### 3M™ 3/C Phase Rejacketing System

RJS Rejacketing Assemblies are a series of silicone rubber insulators incorporating an inner-expandable polyester braid designed to reduce sliding friction and deliver the insulator onto the cable. Rejacketing sleeves are designed to protect the phase legs (core) of 3/C shielded power cable from exposure to moisture, corrosion, ozone, ultra-violet radiation, physical contact and other hazards that are associated with termination operating environments. Rejacketing sleeves are designed to be used in conjunction with 3M Cold Shrink Breakout Boots and Silicone Rubber Terminations.

#### 3M™ Cold Shrink Silicone Rubber 3/C Cable Breakout Boots 8560 Series

Product Number	UPC (051138-)	Cable Phase Shield Diameter Range mm (in)	Cable Outer Jacket Diameter Range mm (in)	Inner Unit Pack	Case Qty.
8561	43143	12.2-18.3 (0.48-0.72)	29.7-49.3 (1.17-1.94)	-	1/box
8562	43144	15.5-24.2 (0.61-0.95)	37.1-67.8 (1.46 - 2.67)	-	1/box
8563	43145	20.8-30.0 (0.82-1.18)	48.8-78.7 (1.92-3.10)	-	1/box
8564	43146	26.0-41.1 (1.02-1.63)	64.0-109.8 (2.52-4.32)	-	1/box
8565	43147	27.7-49.3 (1.09-1.94)	66.1-119.4 (2.60-4.70)	-	1/box

#### 3M™ 3/C Phase Rejacketing Sleeve Selection Guide-Based on Diameter Range and Cable Conductor Size

Product Number	UPC (054007-)	Size Feet	Metallic Shield Diameter Range mm (in.)	3.3 kV (mm) IEC	3.3 kV (mm) JIS	5.0 kV (AWG) AEIC	6.6 kV (mm) IEC	6.6 kV (mm) JIS	8.0 kV (AWG) AEIC	Inner Unit Pack	Case Qty.
RJS-1-4FT	43098	4	10.9-15.2 (0.43-0.60)	16-35	8-22	8-2	16-25	8-10	6-4	-	10
RJS-1-1FT	43099	10	10.9-15.2 (0.43-0.60)	16-35	8-22	8-2	16-25	8-10	6-4	-	1
RJS-2-4FT	43100	4	15.2-20.3 (0.60-0.80)	50-95	38-60	1-3/0	35-70	14-38	2.2/0	-	10
RJS-2-10FT	43101	10	15.2-20.3 (0.60-0.80)	50-95	38-60	1-3/0	35-70	14-38	2.2/0	-	1
RJS-3-4FT	43102	4	20.3-26.0 (0.80-1.02)	120-185	100-150	4/0-400	95-150	60-100	3/0-350	-	10
RJS-3-10FT	43103	10	20.3-26.0 (0.80-1.02)	120-185	100-150	4/0-400	95-150	60-100	3/0-350	-	1
RJS-4-4FT	43104	4	25.9-32.4 (1.02-1.28)	240-300	200-250	500-750	185-300	150-250	400-600	-	10
RJS-4-10FT	43105	10	25.9-32.4 (1.02-1.28)	240-300	200-250	500-750	185-300	150-250	400-600	-	1
RJS-5-4FT	43106	4	32.5-41.1 (1.28-1.62)	-	300-325	800-1000	-	300-325	750-1000	-	10
RJS-5-10FT	43107	10	32.5-41.1 (1.28-1.62)	-	300-325	800-1000	-	300-325	750-1000	-	1

#### 3M™ 3/C Phase Rejacketing Sleeve Selection Guide-Based on Diameter Range and Cable Conductor Size

Product Number	UPC (054007-)	Size Feet	Metallic Shield Diameter Range mm (in.)	10 kV (mm) IEC	15 kV (AWG) AEIC	20 kV (mm) IEC	25 kV (AWG) AEIC	30 kV (mm) IEC	35 kV (AWG) AEIC	Inner Unit Pack	Case Qty.
RJS-1-4FT	43098	4	10.9-15.2 (0.43-0.60)	-	-	-	-	-	-	-	10
RJS-1-1FT	43099	10	10.9-15.2 (0.43-0.60)	-	-	-	-	-	-	-	1
RJS-2-4FT	43100	4	15.2-20.3 (0.60-0.80)	10-50	2-1	-	-	-	-	-	10
RJS-2-10FT	43101	10	15.2-20.3 (0.60-0.80)	10-50	2-1	-	-	-	-	-	1
RJS-3-4FT	43102	4	20.3-26.0 (0.80-1.02)	70-150	1/0-4/0	25-70	2-1/0	-	-	-	10
RJS-3-10FT	43103	10	20.3-26.0 (0.80-1.02)	70-150	1/0-4/0	25-70	2-1/0	-	-	-	1
RJS-4-4FT	43104	4	25.9-32.4 (1.02-1.28)	185-300	250-450	95-185	2/0-250	35-70	1/0-3/0	-	10
RJS-4-10FT	43105	10	25.9-32.4 (1.02-1.28)	185-300	250-450	95-185	2/0-250	35-70	1/0-3/0	-	1
RJS-5-4FT	43106	4	32.5-41.1 (1.28-1.62)	-	500-750	240-300	300-500	95-240	4/0-500	-	10
RJS-5-10FT	43107	10	32.5-41.1 (1.28-1.62)	-	500-750	240-300	300-500	95-240	4/0-500	-	1

# 3M Cold Shrink Splicing Kits

## 3M™ QS-III 5467 Series

**Voltage Rating: 15kV**  
**Meets IEEE 404**

The QS-III 5515 and 5516 Cold Shrink series splicing kits are molded silicone rubber inline splices for joining 15 kV Tape, Wire, LC and UniShield® power cables. It is a cold shrink design. Kits can be ordered with connectors packed in the kit or the kit and connector can be ordered as separate items. See page 12 to order 3M connectors. Each kit makes one splice.



Tape Shielded Cable



UniShield® Cable



Wire Shielded Cable



Longitudinally Corrugated (LC) Shielded Cable

### 3M QS-III 5515 and 5516 Cold Shrink Series Selection Guide

Product Series	UPC (054007-)	Primary Insulation O.D. Range	Conductor Size	Connector	Case Qty.
Tape Shielded Cable, Wire Shielded Cable, UniShield® Cable, Longitudinally Corrugated (LC) Shielded Cable See above for cable type illustrations.					
5515	42134	1.02 - 1.55"	350 - 750 kcmil (25,9 - 39,4 mm)	None (185 - 325 mm²)	1
5515-350-AL	42135	1.02 - 1.55"	350 kcmil (25,9 - 39,4 mm)	20011	1
5515-350-CU	42898	1.02 - 1.55"	350 kcmil (25,9 - 39,4 mm)	10011	1
5515-500-AL	42899	1.02 - 1.55"	500 kcmil (25,9 - 39,4 mm)	20014	1
5515-500-CU	42136	1.02 - 1.55"	500 kcmil (25,9 - 39,4 mm)	10014	1
5515-750-AL	42900	1.02 - 1.55"	750 kcmil (25,9 - 39,4 mm)	20019	1
5515-750-CU	42137	1.02 - 1.55"	750 kcmil (25,9 - 39,4 mm)	10019	1
5516	42139	1.29 - 2.00"	750 - 1500 kcmil (32,8 - 50,8 mm)	None (400 - 725 mm²)	1
5516-750-AL	42354	1.29 - 2.00"	750 kcmil (32,8 - 50,8 mm)	20019	1
5516-750-CU	43255	1.29 - 2.00"	750 kcmil (32,8 - 50,8 mm)	10019	1
5516-1000-AL	42901	1.29 - 2.00"	1000 kcmil (32,8 - 50,8 mm)	20024	1
5516-1000-CU	42106	1.29 - 2.00"	1000 kcmil (32,8 - 50,8 mm)	10024	1

### Features / Benefits

#### 3M QS-III Cold Shrink Cable Splices

Silicone body provides excellent electrical performances and superior low temperature handling

One piece splice body design

Built-in semiconductive electrodes

Wide cable range

Field proven technology

Splice bodies are 100% factory tested

No heat, flames or special installation tools required.

Fast recovery in cold temperatures

Minimal training required

Faster installation

No need for semiconducting tape

Allow transitioning of different size cables

Easy, straightforward installation

Field reliability