

**3M** Science.  
Applied to Life.™

3M Electrical Markets Division

# Reliability. Safety. Efficiency.

## 3M™ Cold Shrink QT-III Indoor and Outdoor Terminations

High-performance medium voltage terminations based on field-proven cold shrink technology, pioneered by 3M.



## Your trusted medium voltage power connection for reliable and efficient energy delivery

Introduced by 3M over 40 years ago, cold shrink technology is engineered for easy installation and long-term performance in the field.

Our cold shrink terminations offer a reliable sealing solution for medium and high voltage applications, and are simple to install even in confined work areas – helping you save time and money.



# It's time to

## 3M™ Cold Shrink QT-III Terminations

### Reliable

- Robust and high-performance design
- Simpler installation helps reduce craft errors
- Integrated design helps ensure installation consistency
- Living seal ensures constant radial pressure
- Meets or exceeds IEEE 48, Cenelec 0278, IEC 502 and GB
- UV resistant, hydrophobic and track-resistant
- Factory-tested material

### Efficient

- Helps minimize installation time in enclosed or contaminated environments
- Helps improve outage repair and installation time through intuitive and user-friendly products
- Step core design ensures easy and simple installation and wide application range
- Compact configuration with High-K stress control tube
- Built-in High-K stress controlling compound
- Built-in environmental top sealing compound
- Designed to last the life of the cable
- No tools, torches or other heat sources required

"3M has always provided excellent customer service. And of the thousands of terminations made, 3M stands the test of time."

*Alan Hege  
Salem Electric Co Inc.*





# unwind.

3M Customer Service  
800-245-3573  
[3M.com/electricalconstruction](http://3M.com/electricalconstruction)

## 3M Construction Services

**Keep your project on track. On time. And on budget.**

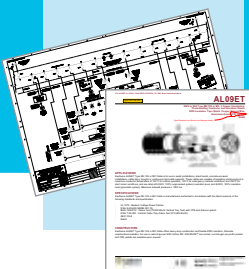
We understand that no two projects are created alike. That's why we offer free electrical construction services for industrial and commercial projects. Based on your documentation, we will create a detailed MV termination take-off to meet the requirements of your jobsite. We will build and label a custom kit, including lugs and other hardware, and we'll ship it directly to your jobsite. What's more, we provide onsite installation support, training and ongoing technical support — **all at no additional cost to you.**

"Due to superior quality and outstanding customer service I always insist on the use of 3M products."

Shannon Savoy  
*Chief Inspector at  
Tulsa Inspection  
Resources*

Custom solutions for the way you work. From start to finish.

Customer's Information



3M Support



3M Takeoff



3M Custom Kits & Custom Labels



The right products in the right place at the right time.



# Contents

## Shearbolt Lugs & Accessories

|                         |   |
|-------------------------|---|
| Two-Hole Shearbolt Lugs | 5 |
| Shearbolt Holding Tools | 5 |

## Single Core Termination Kits

|                                      |                    |    |
|--------------------------------------|--------------------|----|
|                                      | Indoor             | 6  |
| <b>For use with Compression Lugs</b> | Outdoor            | 7  |
|                                      | Inverted           | 8  |
|                                      | With Top Insulator | 8  |
|                                      | Indoor             | 9  |
| <b>For use with Shearbolt Lugs</b>   | Outdoor            | 10 |
|                                      | Inverted           | 11 |
|                                      | With Top Insulator | 11 |

## Three Core Termination Kits

|                 |                               |         |
|-----------------|-------------------------------|---------|
|                 | Overview                      | 12 – 13 |
|                 | Cabinet Mount                 | 12 – 15 |
| <b>Indoor</b>   | With Ground Wires             | 16 – 17 |
|                 | Without Ground Wires          | 18 – 19 |
| <b>Outdoor</b>  | With and without Ground Wires | 20 – 21 |
| <b>Inverted</b> | With and without Ground Wires | 22 – 23 |

*"We also used the QCI Series Shearbolt Connectors on the 500kcmil conductors, and these saved a lot of time and trouble compared to wrestling with hydraulic crimp tools up in the bucket."*

Mike Johnston  
Senior Electrical Engineer  
KP Engineering

*"3M is without question the leader in Cold Shrink Splicing and Terminating. We have installed thousands of them on our projects, always with excellent results!"*

Thomas Fox  
Hunt Electric Corporation

*"As seasoned Medium Voltage Technicians, we have been installing 3M Cold Shrink Splices and Terminations for over 30 years with excellent results."*

Ralph Patterson  
Power Products & Solutions

*"We like using 3M kits overall because of their simplicity and the directions are very easy to understand. Their step by step instructions take you through the whole process."*

Ken Schaefer  
Electrician  
RJP Electric



# Mechanical Shearbolt Lugs & Accessories

## 3M™ Mechanical Shearbolt Lugs QL2 Series: Two-Hole

|  | QL2*            | Conductor Size Range<br>AWG/kmil | Lug O.D.<br>Inches (mm) | Lug Length, with<br>centering rings<br>Inches (mm) | Lug I.D.<br>Inches (mm) |
|----------------------------------------------------------------------------------|-----------------|----------------------------------|-------------------------|----------------------------------------------------|-------------------------|
|                                                                                  | QL2-A-2-250     | 2 – 250                          | 1.10 (28)               | 5.98 (152,0)                                       | 0.64 (16,3)             |
|                                                                                  | QL2-A-1/0-350   | 1/0 – 350                        | 1.30 (33)               | 6.32 (160,5)                                       | 0.78 (19,8)             |
|                                                                                  | QL2-A-4/0-600   | 4/0 – 600                        | 1.50 (38)               | 6.79 (172,5)                                       | 0.94 (23,9)             |
|                                                                                  | QL2-A-350-750   | 350 – 750                        | 1.65 (42)               | 7.54 (191,5)                                       | 1.03 (26,2)             |
|                                                                                  | QL2-A-500-1000  | 500 – 1000                       | 2.05 (52)               | 8.37 (212,5)                                       | 1.22 (31,0)             |
|                                                                                  | QL2-A-1000-1250 | 1000 – 1250                      | 2.05 (52)               | 8.37 (212,5)                                       | 1.31 (33,3)             |

**\*NOTE:** These lugs are designed to be used with 3M™ Cold Shrink QT-III Terminations. Refer to the termination instruction sheet for specific information regarding QL2 lug usage for each kit. For non-3M terminations, contact the termination manufacturer before installing the lug to determine proper sizing.

## Shearbolt Holding Tools

| Mechanical Shearbolt<br>Lug Part # | Shearbolt Holding Tool SB<br>Size 1 | Shearbolt Holding Tool SB<br>Size 2 |
|------------------------------------|-------------------------------------|-------------------------------------|
| QL2-A-2-250                        | ✓                                   | ✗                                   |
| QL2-A-1/0-350                      | ✓                                   | ✓                                   |
| QL2-A-4/0-600                      | ✓                                   | ✓                                   |
| QL2-A-350-750                      | ✓                                   | ✓                                   |
| QL2-A-500-1000                     | ✗                                   | ✓                                   |
| QL2-A-1000-1250                    | ✗                                   | ✓                                   |



# INDOOR

## Single Core Termination Kits



3M™ Cold Shrink QT-III Silicone Rubber Indoor Terminations for use with Compression Lugs

| Kit Number | BIL | Cable Insulation<br>O.D. Range<br>Inches (mm) | Conductor Size Range<br>AWG and kcmil (mm <sup>2</sup> ) |      |       |          |        |
|------------|-----|-----------------------------------------------|----------------------------------------------------------|------|-------|----------|--------|
|            |     |                                               | 5 kV                                                     | 8 kV | 15 kV | 25/28 kV | 35 kV* |

**Tape Shield, Wire Shield, UniShield® Cable Kits** (Each kit makes three terminations.)

|            |        |                           |             |             |                          |                        |                        |
|------------|--------|---------------------------|-------------|-------------|--------------------------|------------------------|------------------------|
| 7620-T-95  | 95 kV  | 0.32 – 0.59 (8,1 – 15,0)  | 8 – 4       | 8 – 6       | —                        | —                      | —                      |
| 7621-T-95  | 95 kV  | 0.44 – 0.89 (11,2 – 22,6) | 2 – 3/0     | 4 – 2/0     | —                        | —                      | —                      |
| 7622-T-95  | 95 kV  | 0.64 – 1.08 (16,3 – 27,4) | 4/0 – 400   | 3/0 – 300   | —                        | —                      | —                      |
| 7624-T-95  | 95 kV  | 0.83 – 1.53 (21,1 – 38,9) | 500 – 750   | 350 – 700   | —                        | —                      | —                      |
| 7625-T-95  | 95 kV  | 1.05 – 1.80 (26,7 – 45,7) | 700 – 1500  | 600 – 1250  | —                        | —                      | —                      |
| 7622-T-110 | 110 kV | 0.64 – 1.08 (16,3 – 27,4) | 4/0 – 400   | 3/0 – 300   | 2 – 2/0 (35 – 70)        | —                      | —                      |
| 7623-T-110 | 110 kV | 0.72 – 1.29 (18,3 – 32,8) | 300 – 500   | 250 – 500   | 2/0 – 300 (70 – 150)     | —                      | —                      |
| 7624-T-110 | 110 kV | 0.83 – 1.53 (21,1 – 38,9) | 500 – 750   | 350 – 700   | 4/0 – 500 (120 – 240)    | —                      | —                      |
| 7625-T-110 | 110 kV | 1.05 – 1.80 (26,7 – 45,7) | 700 – 1500  | 600 – 1250  | 500 – 1000 (240 – 500)   | —                      | —                      |
| 7626-T-110 | 110 kV | 1.53 – 2.32 (38,9 – 58,9) | 1750 – 2000 | 1500 – 2000 | 1250 – 2000 (625 – 1000) | —                      | —                      |
| 7693-T-150 | 150 kV | 0.72 – 1.29 (18,3 – 32,8) | 300 – 500   | 250 – 500   | 2/0 – 300 (70 – 150)     | 2 – 4/0 (35 – 120)     | 2 – 2/0 (35 – 70)      |
| 7695-T-150 | 150 kV | 1.05 – 1.80 (26,7 – 45,7) | 700 – 1500  | 600 – 1250  | 500 – 1000 (240 – 500)   | 250 – 800 (150 – 400)  | 3/0 – 600 (95 – 325)   |
| 7696-T-150 | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | 1750 – 2000 | 1500 – 2000 | 1250 – 2000 (625 – 1000) | 900 – 1750 (500 – 800) | 700 – 1500 (400 – 725) |

**Concentric and Jacketed Concentric Neutral Cable Kits** (Each kit makes one termination.)

|            |        |                           |             |             |                          |                        |                        |
|------------|--------|---------------------------|-------------|-------------|--------------------------|------------------------|------------------------|
| 7642-T-110 | 110 kV | 0.64 – 1.08 (16,3 – 27,4) | 4/0 – 400   | 3/0 – 300   | 2 – 2/0 (35 – 70)        | —                      | —                      |
| 7643-T-110 | 110kV  | 0.72 – 1.29 (18,3 – 32,8) | 300 – 500   | 250 – 500   | 2/0 – 300 (70 – 150)     | —                      | —                      |
| 7644-T-110 | 110 kV | 0.83 – 1.53 (21,1 – 38,9) | 500 – 750   | 350 – 700   | 4/0 – 500 (120 – 240)    | —                      | —                      |
| 7645-T-110 | 110 kV | 1.05 – 1.80 (26,7 – 45,7) | 700 – 1500  | 600 – 1250  | 500 – 1000 (240 – 500)   | —                      | —                      |
| 7646-T-110 | 110 kV | 1.53 – 2.32 (38,9 – 58,9) | 1750 – 2000 | 1500 – 2000 | 1250 – 2000 (625 – 1000) | —                      | —                      |
| 7653-T-150 | 150 kV | 0.72 – 1.29 (18,3 – 32,8) | 300 – 500   | 250 – 500   | 2/0 – 300 (70 – 150)     | 2 – 4/0 (35 – 120)     | 2 – 2/0 (35 – 70)      |
| 7655-T-150 | 150 kV | 1.05 – 1.80 (26,7 – 45,7) | 700 – 1500  | 600 – 1250  | 500 – 1250 (240 – 625)   | 250 – 800 (150 – 400)  | 3/0 – 600 (95 – 325)   |
| 7656-T-150 | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | 1750 – 2000 | 1500 – 2000 | 1250 – 2000 (625 – 1000) | 900 – 1750 (500 – 800) | 700 – 1500 (400 – 725) |

**High Fault Current Cable Kits for Tape Shield, Wire-Over-Tape Shield, Longitudinally Corrugated (LC) Shield Cables** (Each kit makes one termination.)

|                |        |                             |             |             |                          |                        |                        |
|----------------|--------|-----------------------------|-------------|-------------|--------------------------|------------------------|------------------------|
| 7642-T-HSG-110 | 110 kV | 0.64 – 1.08 (16,3 – 27,4)   | 4/0 – 400   | 3/0 – 300   | 2 – 2/0 (35 – 70)        | —                      | —                      |
| 7643-T-HSG-110 | 110 kV | 0.72 – 1.29 (18,3 – 32,8)   | 300 – 500   | 250 – 500   | 2/0 – 300 (70 – 150)     | —                      | —                      |
| 7644-T-HSG-110 | 110 kV | 0.83 – 1.53 (21,1 – 38,9)   | 500 – 750   | 350 – 700   | 4/0 – 500 (120 – 240)    | —                      | —                      |
| 7645-T-HSG-110 | 110 kV | 1.05" – 1.80" (26,7 – 45,7) | 700 – 1500  | 600 – 1250  | 500 – 1000 (240 – 500)   | —                      | —                      |
| 7646-T-HSG-110 | 110 kV | 1.53 – 2.32 (38,9 – 58,9)   | 1750 – 2000 | 1500 – 2000 | 1250 – 2000 (625 – 1000) | —                      | —                      |
| 7653-T-HSG-150 | 150 kV | 0.72 – 1.29 (18,3 – 32,8)   | 300 – 500   | 250 – 500   | 2/0 – 300 (70 – 150)     | 2 – 4/0 (35 – 120)     | 2 – 2/0 (35 – 70)      |
| 7655-T-HSG-150 | 150 kV | 1.05 – 1.80 (26,7 – 45,7)   | 700 – 1500  | 600 – 1250  | 500 – 1000 (240 – 500)   | 250 – 800 (150 – 400)  | 3/0 – 600 (95 – 325)   |
| 7656-T-HSG-150 | 150 kV | 1.53 – 2.32 (38,9 – 58,9)   | 1750 – 2000 | 1500 – 2000 | 1250 – 2000 (625 – 1000) | 900 – 1750 (500 – 800) | 700 – 1500 (400 – 725) |

\* 150 kV impulse level meets the impulse requirements for 35 kV class equipment where indoor terminations are used.



# OUTDOOR

## Single Core Termination Kits



3M™ Cold Shrink QT-III Silicone Rubber Outdoor Terminations for use with Compression Lugs

| Kit Number | BIL | Cable Insulation<br>O.D. Range<br>Inches (mm) | Conductor Size Range<br>AWG and kcmil (mm <sup>2</sup> ) |      |       |          |       |
|------------|-----|-----------------------------------------------|----------------------------------------------------------|------|-------|----------|-------|
|            |     |                                               | 5 kV                                                     | 8 kV | 15 kV | 25/28 kV | 35 kV |

**Tape Shield, Wire Shield, UniShield® Cable Kits** (Each kit makes three terminations.)

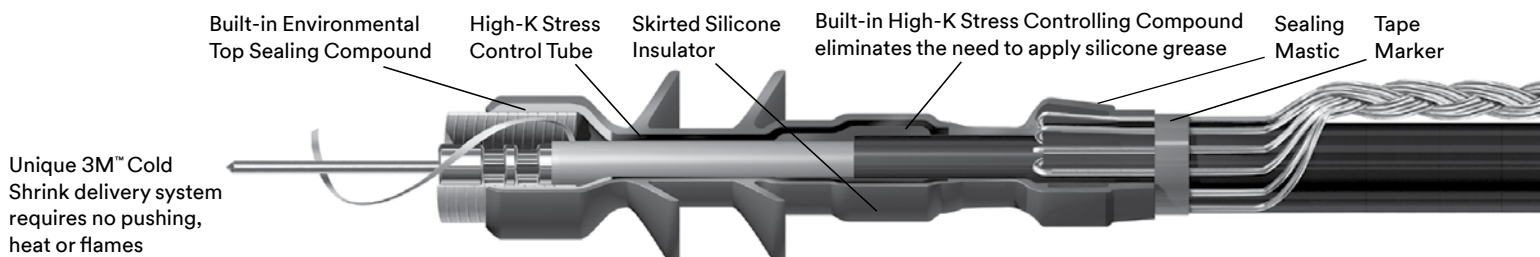
|          |        |                       |           |           |                      |                    |                    |
|----------|--------|-----------------------|-----------|-----------|----------------------|--------------------|--------------------|
| 7620-S-2 | 95 kV  | 0.32–0.59 (8,1–15,0)  | 8–4       | 8–6       | —                    | —                  | —                  |
| 7621-S-2 | 95 kV  | 0.44–0.89 (11,2–22,6) | 2–3/0     | 4–2/0     | —                    | —                  | —                  |
| 7622-S-2 | 110 kV | 0.64–1.08 (16,3–27,4) | 4/0–400   | 3/0–300   | 2–4/0 (35–120)       | —                  | —                  |
| 7692-S-4 | 150 kV | 0.64–1.08 (16,3–27,4) | 4/0–400   | 3/0–300   | 2–4/0 (35–120)       | 2–1/0 (35–50)      | —                  |
| 7693-S-4 | 150 kV | 0.72–1.29 (18,3–32,8) | 300–500   | 250–500   | 2/0–300 (70–150)     | 2–4/0 (35–120)     | —                  |
| 7694-S-4 | 150 kV | 0.83–1.53 (21,1–38,9) | 500–750   | 350–700   | 4/0–500 (120–240)    | 2/0–250 (70–150)   | —                  |
| 7695-S-4 | 150 kV | 1.05–1.80 (26,7–45,7) | 700–1500  | 600–1250  | 500–1000 (240–500)   | 250–800 (150–400)  | —                  |
| 7696-S-4 | 150 kV | 1.53–2.32 (38,9–58,9) | 1750–2000 | 1500–2000 | 1250–2000 (625–1000) | 900–1750 (500–800) | —                  |
| 7683-S-8 | 200 kV | 0.72–1.29 (18,3–32,8) | 300–500   | 250–500   | 2/0–300 (70–150)     | 2–4/0 (35–120)     | 2–2/0 (35–70)      |
| 7684-S-8 | 200 kV | 0.83–1.53 (21,1–38,9) | 500–750   | 350–700   | 4/0–500 (120–240)    | 2/0–250 (70–150)   | 2–4/0 (35–120)     |
| 7685-S-8 | 200 kV | 1.05–1.80 (26,7–45,7) | 700–1500  | 600–1250  | 500–1000 (240–500)   | 250–800 (150–400)  | 3/0–600 (95–325)   |
| 7686-S-8 | 200 kV | 1.53–2.32 (38,9–58,9) | 1750–2000 | 1500–2000 | 1250–2000 (625–1000) | 900–1750 (500–800) | 700–1500 (400–725) |

**Concentric and Jacketed Concentric Neutral Cable Kits** (Each kit makes one termination.)

|          |        |                       |           |           |                      |                    |                    |
|----------|--------|-----------------------|-----------|-----------|----------------------|--------------------|--------------------|
| 7642-S-2 | 110 kV | 0.64–1.08 (16,3–27,4) | 4/0–400   | 3/0–300   | 2–4/0 (35–120)       | —                  | —                  |
| 7652-S-4 | 150 kV | 0.64–1.08 (16,3–27,4) | 4/0–400   | 3/0–300   | 2–4/0 (35–120)       | 2–1/0 (35–50)      | —                  |
| 7653-S-4 | 150 kV | 0.72–1.29 (18,3–32,8) | 300–500   | 250–500   | 2/0–300 (70–150)     | 2–4/0 (35–120)     | —                  |
| 7654-S-4 | 150 kV | 0.83–1.53 (21,1–38,9) | 500–750   | 350–700   | 4/0–500 (120–240)    | 2/0–250 (70–150)   | —                  |
| 7655-S-4 | 150 kV | 1.05–1.80 (26,7–45,7) | 700–1500  | 600–1250  | 500–1000 (240–500)   | 250–800 (150–400)  | —                  |
| 7656-S-4 | 150 kV | 1.53–2.32 (38,9–58,9) | 1750–2000 | 1500–2000 | 1250–2000 (625–1000) | 900–1750 (500–800) | —                  |
| 7663-S-8 | 200 kV | 0.72–1.29 (18,3–32,8) | 300–500   | 250–500   | 2/0–300 (70–150)     | 2–4/0 (35–120)     | 2–2/0 (35–70)      |
| 7664-S-8 | 200 kV | 0.83–1.53 (21,1–38,9) | 500–750   | 350–700   | 4/0–500 (120–240)    | 2/0–250 (70–150)   | 2–4/0 (35–120)     |
| 7665-S-8 | 200 kV | 1.05–1.80 (26,7–45,7) | 700–1500  | 600–1250  | 500–1000 (240–500)   | 250–800 (150–400)  | 3/0–600 (95–325)   |
| 7666-S-8 | 200 kV | 1.53–2.32 (38,9–58,9) | 1750–2000 | 1500–2000 | 1250–2000 (625–1000) | 900–1750 (500–800) | 700–1500 (400–725) |

**High Fault Current Cable Kits for Tape Shield, Wire-Over-Tape Shield, Longitudinally Corrugated (LC) Shield Cables** (Each kit makes one termination.)

|              |        |                       |           |           |                      |                    |                    |
|--------------|--------|-----------------------|-----------|-----------|----------------------|--------------------|--------------------|
| 7652-S-HSG-4 | 150 kV | 0.64–1.08 (16,3–27,4) | 4/0–400   | 3/0–300   | 2–4/0 (35–120)       | 2–1/0 (35–50)      | —                  |
| 7653-S-HSG-4 | 150 kV | 0.72–1.29 (18,3–32,8) | 300–500   | 250–500   | 2/0–300 (70–150)     | 2–4/0 (35–120)     | —                  |
| 7654-S-HSG-4 | 150 kV | 0.83–1.53 (21,1–38,9) | 500–750   | 350–700   | 4/0–500 (120–240)    | 2/0–250 (70–150)   | —                  |
| 7655-S-HSG-4 | 150 kV | 1.05–1.80 (26,7–45,7) | 700–1500  | 600–1250  | 500–1000 (240–500)   | 250–800 (150–400)  | —                  |
| 7656-S-HSG-4 | 150 kV | 1.53–2.32 (38,9–58,9) | 1750–2000 | 1500–2000 | 1250–2000 (625–1000) | 900–1750 (500–800) | —                  |
| 7663-S-HSG-8 | 200 kV | 0.72–1.29 (18,3–32,8) | 300–500   | 250–500   | 2/0–300 (70–150)     | 2–4/0 (35–120)     | 2–2/0 (35–70)      |
| 7664-S-HSG-8 | 200 kV | 0.83–1.53 (21,1–38,9) | 500–750   | 350–700   | 4/0–500 (120–240)    | 2/0–250 (70–150)   | 2–4/0 (35–120)     |
| 7665-S-HSG-8 | 200 kV | 1.05–1.80 (26,7–45,7) | 700–1500  | 600–1250  | 500–1000 (240–500)   | 250–800 (150–400)  | 3/0–600 (95–325)   |
| 7666-S-HSG-8 | 200 kV | 1.53–2.32 (38,9–58,9) | 1750–2000 | 1500–2000 | 1250–2000 (625–1000) | 900–1750 (500–800) | 700–1500 (400–725) |



# INVERTED

## Single Core Termination Kits



3M™ Cold Shrink QT-III Silicone Rubber Inverted Outdoor Terminations for use with Compression Lugs

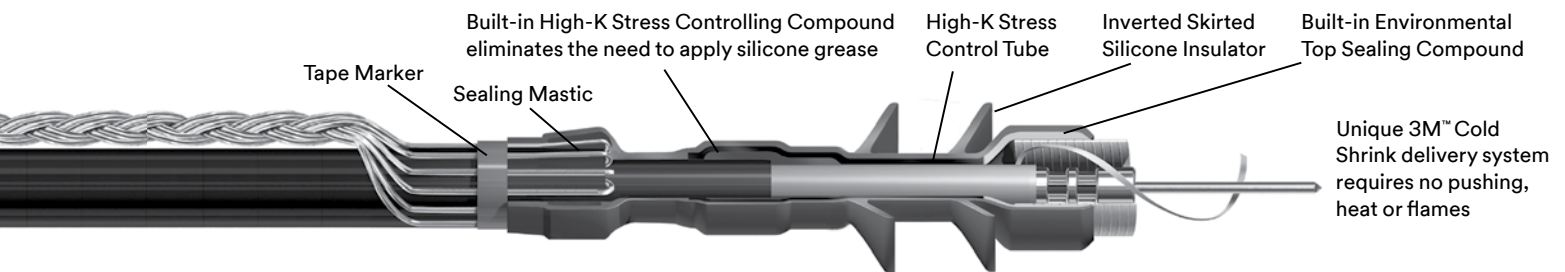
| Kit Number | BIL | Cable Insulation<br>O.D. Range<br>Inches (mm) | Conductor Size Range<br>AWG and kcmil (mm <sup>2</sup> ) |      |       |          |       |
|------------|-----|-----------------------------------------------|----------------------------------------------------------|------|-------|----------|-------|
|            |     |                                               | 5 kV                                                     | 8 kV | 15 kV | 25/28 kV | 35 kV |

**Inverted Kits for Concentric and Jacketed Concentric Neutral Cable** (Each kit makes one termination.)

|                     |        |                           |             |             |                          |                        |                        |
|---------------------|--------|---------------------------|-------------|-------------|--------------------------|------------------------|------------------------|
| <b>7642-S-INV-2</b> | 110 kV | 0.64 – 1.08 (16,3 – 27,4) | 4/0 – 400   | 3/0 – 300   | 2 – 4/0 (35 – 120)       | —                      | —                      |
| <b>7653-S-INV-4</b> | 200 kV | 0.72 – 1.29 (18,3 – 32,8) | 300 – 500   | 250 – 500   | 2/0 – 300 (70 – 150)     | 2 – 4/0 (35 – 120)     | 2 – 2/0 (35 – 70)      |
| <b>7655-S-INV-4</b> | 200 kV | 1.05 – 1.80 (26,7 – 45,7) | 700 – 1500  | 600 – 1250  | 500 – 1000 (240 – 500)   | 250 – 800 (150 – 400)  | 3/0 – 600 (95 – 325)   |
| <b>7656-S-INV-4</b> | 200 kV | 1.53 – 2.32 (38,9 – 58,9) | 1750 – 2000 | 1500 – 2000 | 1250 – 2000 (625 – 1000) | 900 – 1750 (500 – 800) | 700 – 1500 (400 – 725) |

**Inverted Kits for Tape Shield, Wire Shield and UniShield® Cables** (Each kit makes three terminations.)

|                     |        |                           |             |             |                          |                        |                        |
|---------------------|--------|---------------------------|-------------|-------------|--------------------------|------------------------|------------------------|
| <b>7622-S-INV-2</b> | 110 kV | 0.64 – 1.08 (16,3 – 27,4) | 4/0 – 400   | 3/0 – 300   | 2 – 4/0 (35 – 120)       | —                      | —                      |
| <b>7693-S-INV-4</b> | 150 kV | 0.72 – 1.29 (18,3 – 32,8) | 300 – 500   | 250 – 500   | 2/0 – 300 (70 – 150)     | 2 – 4/0 (35 – 120)     | 2 – 2/0 (35 – 70)      |
| <b>7695-S-INV-4</b> | 150 kV | 1.05 – 1.80 (26,7 – 45,7) | 700 – 1500  | 600 – 1250  | 350 – 1000 (185 – 500)   | 250 – 800 (150 – 400)  | 3/0 – 600 (95 – 325)   |
| <b>7696-S-INV-4</b> | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | 1750 – 2000 | 1500 – 2000 | 1250 – 2000 (625 – 1000) | 900 – 1750 (500 – 800) | 700 – 1500 (400 – 725) |



# TOP INSULATOR

## Single Core Termination Kits

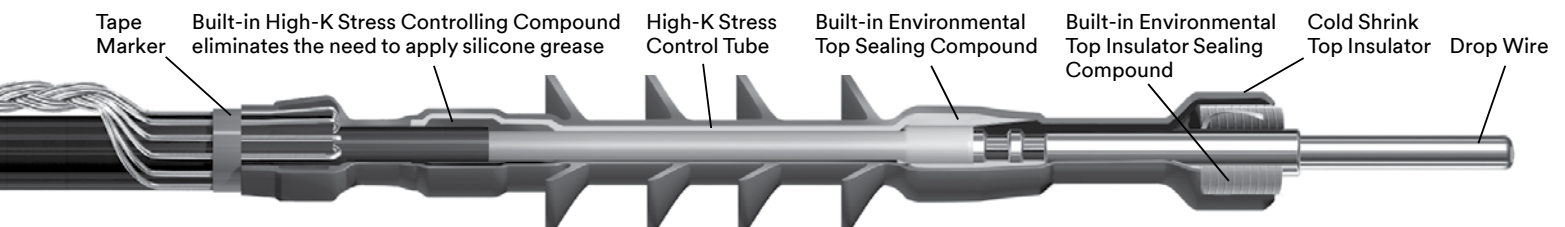


3M™ Cold Shrink QT-III Silicone Rubber Terminations with Top Insulator for use with Compression Lugs

| Kit Number | BIL | Cable Insulation<br>O.D. Range<br>Inches (mm) | Connector & Drop<br>Wire O.D. Range<br>Inches (mm) | Conductor Size Range 100% Insulation Level<br>AWG and kcmil (mm <sup>2</sup> ) |          |
|------------|-----|-----------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------|----------|
|            |     |                                               |                                                    | 15 kV                                                                          | 25/28 kV |

**Top Insulator Kits for Concentric and Jacketed Concentric Neutral Cable** (Each kit makes one termination.)

|                    |        |                           |                           |                          |                        |
|--------------------|--------|---------------------------|---------------------------|--------------------------|------------------------|
| <b>7642-S-2-TI</b> | 110 kV | 0.64 – 1.08 (16,3 – 27,4) | 0.97 – 1.48 (24,6 – 37,6) | 2 – 4/0 (35 – 120)       | —                      |
| <b>7652-S-4-TI</b> | 150 kV | 0.64 – 1.08 (16,3 – 27,4) | 0.51 – 0.82 (12,9 – 20,8) | 2 – 4/0 (35 – 120)       | 2 – 1/0 (35 – 50)      |
| <b>7653-S-4-TI</b> | 150 kV | 0.72 – 1.29 (18,3 – 32,8) | 0.62 – 1.00 (15,7 – 25,4) | 2/0 – 300 (70 – 150)     | 2 – 4/0 (35 – 120)     |
| <b>7654-S-4-TI</b> | 150 kV | 0.83 – 1.53 (21,1 – 38,9) | 0.66 – 1.18 (16,7 – 30,0) | 4/0 – 625 (120 – 240)    | 2/0 – 250 (70 – 150)   |
| <b>7655-S-4-TI</b> | 150 kV | 1.05 – 1.80 (26,7 – 45,7) | 0.69 – 1.30 (17,5 – 33,0) | 500 – 1000 (240 – 500)   | 250 – 800 (150 – 400)  |
| <b>7656-S-4-TI</b> | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | 1.05 – 1.94 (26,6 – 49,3) | 1250 – 2000 (625 – 1000) | 900 – 1750 (500 – 800) |







# INDOOR

## Single Core Termination Kits

3M™ Cold Shrink QT-III Silicone Rubber Indoor Terminations for use with Shearbolt Lugs

| Kit Number | BIL | Cable Insulation<br>O.D. Range<br>Inches (mm) | Conductor Size Range |                           |       | 3M™ Shearbolt Lug<br>Part Number |
|------------|-----|-----------------------------------------------|----------------------|---------------------------|-------|----------------------------------|
|            |     |                                               | 15 kV                | AWG and kcmil<br>25/28 kV | 35 kV |                                  |

**Tape Shield, Wire Shield, UniShield® Cable Kits** (Each kit makes three terminations.)

|                |        |                           |            |             |             |                 |
|----------------|--------|---------------------------|------------|-------------|-------------|-----------------|
| 7622-T-110 (L) | 110 kV | 0.69 – 1.22 (17,5 – 31,0) | 1/0 – 4/0  | NA          | NA          | QL2-A-2-250     |
| 7623-T-110     | 110 kV | 0.72 – 1.29 (18,3 – 32,8) | 2/0 – 250  | NA          | NA          | QL2-A-2-250     |
| 7624-T-110     | 110 kV | 0.83 – 1.53 (21,1 – 38,9) | 4/0 – 350  | NA          | NA          | QL2-A-1/0-350   |
| 7625-T-110     | 110 kV | 1.05 – 1.80 (26,7 – 45,7) | 500        | NA          | NA          | QL2-A-4/0-600   |
| 7625-T-110     | 110 kV | 1.05 – 1.80 (26,7 – 45,7) | 500 – 750  | NA          | NA          | QL2-A-350-750   |
| 7625-T-110 (L) | 110 kV | 1.15 – 1.98 (29,2 – 50,3) | 750 – 1000 | NA          | NA          | QL2-A-500-1000  |
| 7626-T-110     | 110 kV | 1.53 – 2.32 (38,9 – 58,9) | 1250       | NA          | NA          | QL2-A-1000-1250 |
| 7693-T-150     | 150 kV | 0.72 – 1.29 (18,3 – 32,8) | 2/0 – 250  | 2 – 4/0     | 1/0 – 2/0   | QL2-A-2-250     |
| 7695-T-150     | 150 kV | 1.05 – 1.80 (26,7 – 45,7) | 500        | 250 – 500   | 4/0 – 600   | QL2-A-4/0-600   |
| 7695-T-150     | 150 kV | 1.05 – 1.80 (26,7 – 45,7) | 500 – 750  | 350 – 750   | 350 – 500   | QL2-A-350-750   |
| 7695-T-150 (L) | 150 kV | 1.15 – 1.90 (29,2 – 48,3) | 750 – 1000 | 500 – 750   | NA          | QL2-A-500-1000  |
| 7696-T-150     | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | NA         | NA          | 750         | QL2-A-350-750   |
| 7696-T-150     | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | NA         | NA          | 750 – 1000  | QL2-A-500-1000  |
| 7696-T-150     | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | 1250       | 1000 – 1250 | 1000 – 1250 | QL2-A-1000-1250 |

**Concentric and Jacketed Concentric Neutral Cable Kits** (Each kit makes one termination.)

|                |        |                           |            |             |             |                 |
|----------------|--------|---------------------------|------------|-------------|-------------|-----------------|
| 7642-T-110 (L) | 110 kV | 0.69 – 1.22 (17,5 – 31,0) | 1/0 – 4/0  | NA          | NA          | QL2-A-2-250     |
| 7643-T-110     | 110 kV | 0.72 – 1.29 (18,3 – 32,8) | 2/0 – 250  | NA          | NA          | QL2-A-2-250     |
| 7644-T-110     | 110 kV | 0.83 – 1.53 (21,1 – 38,9) | 4/0 – 350  | NA          | NA          | QL2-A-1/0-350   |
| 7645-T-110     | 110 kV | 1.05 – 1.80 (26,7 – 45,7) | 500        | NA          | NA          | QL2-A-4/0-600   |
| 7645-T-110     | 110 kV | 1.05 – 1.80 (26,7 – 45,7) | 500 – 750  | NA          | NA          | QL2-A-350-750   |
| 7645-T-110 (L) | 110 kV | 1.15 – 1.98 (29,2 – 50,3) | 750 – 1000 | NA          | NA          | QL2-A-500-1000  |
| 7646-T-110     | 110 kV | 1.53 – 2.32 (38,9 – 58,9) | 1250       | NA          | NA          | QL2-A-1000-1250 |
| 7653-T-150     | 150 kV | 0.72 – 1.29 (18,3 – 32,8) | 2/0 – 250  | 2 – 4/0     | 1/0 – 2/0   | QL2-A-2-250     |
| 7655-T-150     | 150 kV | 1.05 – 1.80 (26,7 – 45,7) | 500        | 250 – 500   | 4/0 – 600   | QL2-A-4/0-600   |
| 7655-T-150     | 150 kV | 1.05 – 1.80 (26,7 – 45,7) | 500 – 750  | 350 – 750   | 350 – 500   | QL2-A-350-750   |
| 7655-T-150 (L) | 150 kV | 1.15 – 1.90 (29,2 – 48,3) | 750 – 1000 | 500 – 750   | NA          | QL2-A-500-1000  |
| 7656-T-150     | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | NA         | NA          | 750         | QL2-A-350-750   |
| 7656-T-150     | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | NA         | NA          | 750 – 1000  | QL2-A-500-1000  |
| 7656-T-150     | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | 1250       | 1000 – 1250 | 1000 – 1250 | QL2-A-1000-1250 |

**High Fault Current Cable Kits for Tape Shield, Wire-Over-Tape Shield, Longitudinally Corrugated (LC) Shield Cables** (Each kit makes one termination.)

|                    |        |                           |            |             |             |                 |
|--------------------|--------|---------------------------|------------|-------------|-------------|-----------------|
| 7642-T-HSG-110 (L) | 110 kV | 0.69 – 1.22 (17,5 – 31,0) | 1/0 – 4/0  | NA          | NA          | QL2-A-2-250     |
| 7643-T-HSG-110     | 110 kV | 0.72 – 1.29 (18,3 – 32,8) | 2/0 – 250  | NA          | NA          | QL2-A-2-250     |
| 7644-T-HSG-110     | 110 kV | 0.83 – 1.53 (21,1 – 38,9) | 4/0 – 350  | NA          | NA          | QL2-A-1/0-350   |
| 7645-T-HSG-110     | 110 kV | 1.05 – 1.80 (26,7 – 45,7) | 500        | NA          | NA          | QL2-A-4/0-600   |
| 7645-T-HSG-110     | 110 kV | 1.05 – 1.80 (26,7 – 45,7) | 500 – 750  | NA          | NA          | QL2-A-350-750   |
| 7645-T-HSG-110 (L) | 110 kV | 1.15 – 1.98 (29,2 – 50,3) | 750 – 1000 | NA          | NA          | QL2-A-500-1000  |
| 7646-T-HSG-110     | 110 kV | 1.53 – 2.32 (38,9 – 58,9) | 1250       | NA          | NA          | QL2-A-1000-1250 |
| 7653-T-HSG-150     | 150 kV | 0.72 – 1.29 (18,3 – 32,8) | 2/0 – 250  | 2 – 4/0     | 1/0 – 2/0   | QL2-A-2-250     |
| 7655-T-HSG-150     | 150 kV | 1.05 – 1.80 (26,7 – 45,7) | 500        | 250 – 500   | 4/0 – 600   | QL2-A-4/0-600   |
| 7655-T-HSG-150     | 150 kV | 1.05 – 1.80 (26,7 – 45,7) | 500 – 750  | 350 – 750   | 350 – 500   | QL2-A-350-750   |
| 7655-T-HSG-150 (L) | 150 kV | 1.15 – 1.90 (29,2 – 48,3) | 750 – 1000 | 500 – 750   | NA          | QL2-A-500-1000  |
| 7656-T-HSG-150     | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | NA         | NA          | 750         | QL2-A-350-750   |
| 7656-T-HSG-150     | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | NA         | NA          | 750 – 1000  | QL2-A-500-1000  |
| 7656-T-HSG-150     | 150 kV | 1.53 – 2.32 (38,9 – 58,9) | 1250       | 1000 – 1250 | 1000 – 1250 | QL2-A-1000-1250 |

# OUTDOOR

## Single Core Termination Kits



3M™ Cold Shrink QT-III Silicone Rubber Outdoor Terminations for use with Shearbolt Lugs

| Kit Number                                                                                                                                           | BIL    | Cable Insulation<br>O.D. Range<br>Inches (mm) | Conductor Size Range<br>AWG and kcmil |             |             | 3M™ Shearbolt Lug<br>Part Number |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------|---------------------------------------|-------------|-------------|----------------------------------|
|                                                                                                                                                      |        |                                               | 15 kV                                 | 25/28 kV    | 35 kV       |                                  |
| Tape Shield, Wire Shield, UniShield® Cable Kits (Each kit makes three terminations.)                                                                 |        |                                               |                                       |             |             |                                  |
| 7622-S-2 (L)                                                                                                                                         | 110 kV | 0.69 – 1.22 (17,5 – 31,0)                     | 1/0 – 4/0                             | NA          | NA          | QL2-A-2-250                      |
| 7692-S-4 (L)                                                                                                                                         | 150 kV | 0.69 – 1.22 (17,5 – 31,0)                     | 1/0 – 4/0                             | NA          | NA          | QL2-A-2-250                      |
| 7693-S-4                                                                                                                                             | 150 kV | 0.72 – 1.29 (18,3 – 32,8)                     | 2/0 – 250                             | 2 – 4/0     | NA          | QL2-A-2-250                      |
| 7694-S-4                                                                                                                                             | 150 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 2/0 – 250   | NA          | QL2-A-2-250                      |
| 7694-S-4                                                                                                                                             | 150 kV | 0.83 – 1.53 (21,1 – 38,9)                     | 4/0 – 350                             | 2/0 – 250   | NA          | QL2-A-1/0-350                    |
| 7694-S-4                                                                                                                                             | 150 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 4/0 – 250   | NA          | QL2-A-4/0-600                    |
| 7695-S-4                                                                                                                                             | 150 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500                                   | 250 – 500   | NA          | QL2-A-4/0-600                    |
| 7695-S-4                                                                                                                                             | 150 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500 – 750                             | 350 – 750   | NA          | QL2-A-350-750                    |
| 7695-S-4 (L)                                                                                                                                         | 150 kV | 1.15 – 1.98 (29,2 – 50,3)                     | 750 – 1000                            | 500 – 750   | NA          | QL2-A-500-1000                   |
| 7696-S-4                                                                                                                                             | 150 kV | 1.53 – 2.32 (38,9 – 58,9)                     | 1250                                  | 1000 – 1250 | NA          | QL2-A-1000-1250                  |
| 7683-S-8                                                                                                                                             | 200 kV | 0.72 – 1.29 (18,3 – 32,8)                     | 2/0 – 250                             | 2 – 4/0     | 1/0 – 2/0   | QL2-A-2-250                      |
| 7684-S-8                                                                                                                                             | 200 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 2/0 – 250   | NA          | QL2-A-2-250                      |
| 7684-S-8                                                                                                                                             | 200 kV | 0.83 – 1.53 (21,1 – 38,9)                     | 4/0 – 350                             | 2/0 – 250   | 1/0 – 4/0   | QL2-A-1/0-350                    |
| 7684-S-8                                                                                                                                             | 200 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 4/0 – 250   | NA          | QL2-A-4/0-600                    |
| 7685-S-8                                                                                                                                             | 200 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500                                   | 250 – 500   | 4/0 – 600   | QL2-A-4/0-600                    |
| 7685-S-8                                                                                                                                             | 200 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500 – 750                             | 350 – 750   | 350 – 500   | QL2-A-350-750                    |
| 7685-S-8 (L)                                                                                                                                         | 200 kV | 1.15 – 1.98 (29,2 – 50,3)                     | 750 – 1000                            | 500 – 750   | NA          | QL2-A-500-1000                   |
| 7686-S-8                                                                                                                                             | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | NA                                    | NA          | 750         | QL2-A-350-750                    |
| 7686-S-8                                                                                                                                             | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | NA                                    | NA          | 750 – 1000  | QL2-A-500-1000                   |
| 7686-S-8                                                                                                                                             | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | 1250                                  | 1000 – 1250 | 1000 – 1250 | QL2-A-1000-1250                  |
| Concentric and Jacketed Concentric Neutral Cable Kits (Each kit makes one termination.)                                                              |        |                                               |                                       |             |             |                                  |
| 7642-S-2 (L)                                                                                                                                         | 110 kV | 0.69 – 1.22 (17,5 – 31,0)                     | 1/0 – 4/0                             | NA          | NA          | QL2-A-2-250                      |
| 7652-S-4 (L)                                                                                                                                         | 150 kV | 0.69 – 1.22 (17,5 – 31,0)                     | 1/0 – 4/0                             | NA          | NA          | QL2-A-2-250                      |
| 7653-S-4                                                                                                                                             | 150 kV | 0.72 – 1.29 (18,3 – 32,8)                     | 2/0 – 250                             | 2 – 4/0     | NA          | QL2-A-2-250                      |
| 7654-S-4                                                                                                                                             | 150 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 2/0 – 250   | NA          | QL2-A-2-250                      |
| 7654-S-4                                                                                                                                             | 150 kV | 0.83 – 1.53 (21,1 – 38,9)                     | 4/0 – 350                             | 2/0 – 250   | NA          | QL2-A-1/0-350                    |
| 7654-S-4                                                                                                                                             | 150 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 4/0 – 250   | NA          | QL2-A-4/0-600                    |
| 7655-S-4                                                                                                                                             | 150 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500                                   | 250 – 500   | NA          | QL2-A-4/0-600                    |
| 7655-S-4                                                                                                                                             | 150 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500 – 750                             | 350 – 750   | NA          | QL2-A-350-750                    |
| 7655-S-4 (L)                                                                                                                                         | 150 kV | 1.15 – 1.98 (29,2 – 50,3)                     | 750 – 1000                            | 500 – 750   | NA          | QL2-A-500-1000                   |
| 7656-S-4                                                                                                                                             | 150 kV | 1.53 – 2.32 (38,9 – 58,9)                     | 1250                                  | 1000 – 1250 | NA          | QL2-A-1000-1250                  |
| 7663-S-8                                                                                                                                             | 200 kV | 0.72 – 1.29 (18,3 – 32,8)                     | 2/0 – 250                             | 2 – 4/0     | 1/0 – 2/0   | QL2-A-2-250                      |
| 7664-S-8                                                                                                                                             | 200 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 2/0 – 250   | NA          | QL2-A-2-250                      |
| 7664-S-8                                                                                                                                             | 200 kV | 0.83 – 1.53 (21,1 – 38,9)                     | 4/0 – 350                             | 2/0 – 250   | 1/0 – 4/0   | QL2-A-1/0-350                    |
| 7664-S-8                                                                                                                                             | 200 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 4/0 – 250   | NA          | QL2-A-4/0-600                    |
| 7665-S-8                                                                                                                                             | 200 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500                                   | 250 – 500   | 4/0 – 600   | QL2-A-4/0-600                    |
| 7665-S-8                                                                                                                                             | 200 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500 – 750                             | 350 – 750   | 350 – 500   | QL2-A-350-750                    |
| 7665-S-8 (L)                                                                                                                                         | 200 kV | 1.15 – 1.98 (29,2 – 50,3)                     | 750 – 1000                            | 500 – 750   | NA          | QL2-A-500-1000                   |
| 7666-S-8                                                                                                                                             | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | NA                                    | NA          | 750         | QL2-A-350-750                    |
| 7666-S-8                                                                                                                                             | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | NA                                    | NA          | 750 – 1000  | QL2-A-500-1000                   |
| 7666-S-8                                                                                                                                             | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | 1250                                  | 1000 – 1250 | 1000 – 1250 | QL2-A-1000-1250                  |
| High Fault Current Cable Kits For Tape Shield, Wire-Over-Tape Shield, Longitudinally Corrugated (LC) Shield Cables (Each kit makes one termination.) |        |                                               |                                       |             |             |                                  |
| 7652-S-HSG-4 (L)                                                                                                                                     | 150 kV | 0.69 – 1.22 (17,5 – 31,0)                     | 1/0 – 4/0                             | NA          | NA          | QL2-A-2-250                      |
| 7653-S-HSG-4                                                                                                                                         | 150 kV | 0.72 – 1.29 (18,3 – 32,8)                     | 2/0 – 250                             | 2 – 4/0     | NA          | QL2-A-2-250                      |
| 7654-S-HSG-4                                                                                                                                         | 150 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 2/0 – 250   | NA          | QL2-A-2-250                      |
| 7654-S-HSG-4                                                                                                                                         | 150 kV | 0.83 – 1.53 (21,1 – 38,9)                     | 4/0 – 350                             | 2/0 – 250   | NA          | QL2-A-1/0-350                    |
| 7654-S-HSG-4                                                                                                                                         | 150 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 4/0 – 250   | NA          | QL2-A-4/0-600                    |
| 7655-S-HSG-4                                                                                                                                         | 150 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500                                   | 250 – 500   | NA          | QL2-A-4/0-600                    |
| 7655-S-HSG-4                                                                                                                                         | 150 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500 – 750                             | 350 – 750   | NA          | QL2-A-350-750                    |
| 7655-S-HSG-4 (L)                                                                                                                                     | 150 kV | 1.15 – 1.98 (29,2 – 50,3)                     | 750 – 1000                            | 500 – 750   | NA          | QL2-A-500-1000                   |
| 7656-S-HSG-4                                                                                                                                         | 150 kV | 1.53 – 2.32 (38,9 – 58,9)                     | 1250                                  | 1000 – 1250 | NA          | QL2-A-1000-1250                  |
| 7663-S-HSG-8                                                                                                                                         | 200 kV | 0.72 – 1.29 (18,3 – 32,8)                     | 2/0 – 250                             | 2 – 4/0     | 1/0 – 2/0   | QL2-A-2-250                      |
| 7664-S-HSG-8                                                                                                                                         | 200 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 2/0 – 250   | NA          | QL2-A-2-250                      |
| 7664-S-HSG-8                                                                                                                                         | 200 kV | 0.83 – 1.53 (21,1 – 38,9)                     | 4/0 – 350                             | 2/0 – 250   | 1/0 – 4/0   | QL2-A-1/0-350                    |
| 7664-S-HSG-8                                                                                                                                         | 200 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 4/0 – 250   | NA          | QL2-A-4/0-600                    |
| 7665-S-HSG-8                                                                                                                                         | 200 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500                                   | 250 – 500   | 4/0 – 600   | QL2-A-4/0-600                    |
| 7665-S-HSG-8                                                                                                                                         | 200 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500 – 750                             | 350 – 750   | 350 – 500   | QL2-A-350-750                    |
| 7665-S-HSG-8 (L)                                                                                                                                     | 200 kV | 1.15 – 1.98 (29,2 – 50,3)                     | 750 – 1000                            | 500 – 750   | NA          | QL2-A-500-1000                   |
| 7666-S-HSG-8                                                                                                                                         | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | NA                                    | NA          | 750         | QL2-A-350-750                    |
| 7666-S-HSG-8                                                                                                                                         | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | NA                                    | NA          | 750 – 1000  | QL2-A-500-1000                   |
| 7666-S-HSG-8                                                                                                                                         | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | 1250                                  | 1000 – 1250 | 1000 – 1250 | QL2-A-1000-1250                  |



# INVERTED

## Single Core Termination Kits

Cold Shrink QT-III Silicone Rubber Inverted Terminations for use with Shearbolt Lugs

| Kit Number                                                                                           | BIL    | Cable Insulation<br>O.D. Range<br>Inches (mm) | Conductor Size Range<br>AWG and kcmil |             |             | 3M™ Shearbolt Lug<br>Part Number |
|------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------|---------------------------------------|-------------|-------------|----------------------------------|
|                                                                                                      |        |                                               | 15 kV                                 | 25/28 kV    | 35 kV       |                                  |
| Inverted Kits for Concentric and Jacketed Concentric Neutral Cable (Each kit makes one termination.) |        |                                               |                                       |             |             |                                  |
| 7642-S-INV-2 (L)                                                                                     | 110 kV | 0.69 – 1.22 (17,5 – 31,0)                     | 1/0 – 4/0                             | NA          | NA          | QL2-A-2-250                      |
| 7653-S-INV-4                                                                                         | 200 kV | 0.72 – 1.22 (18,3 – 32,8)                     | 2/0 – 250                             | 2 – 4/0     | 1/0 – 2/0   | QL2-A-2-250                      |
| 7655-S-INV-4                                                                                         | 200 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500                                   | 250 – 500   | 4/0 – 600   | QL2-A-4/0-600                    |
| 7655-S-INV-4                                                                                         | 200 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500 – 750                             | 350 – 750   | 350 – 500   | QL2-A-350-750                    |
| 7655-S-INV-4 (L)                                                                                     | 200 kV | 1.15 – 1.90 (29,2 – 48,3)                     | 750 – 1000                            | 500 – 750   | NA          | QL2-A-500-1000                   |
| 7656-S-INV-4                                                                                         | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | NA                                    | NA          | 750         | QL2-A-350-750                    |
| 7656-S-INV-4                                                                                         | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | NA                                    | NA          | 750 – 1000  | QL2-A-500-1000                   |
| 7656-S-INV-4                                                                                         | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | 1250                                  | 1000 – 1250 | 1000 – 1250 | QL2-A-1000-1250                  |
| Inverted Kits for Tape Shield, Wire Shield and UniShield® Cables (Each kit makes one termination.)   |        |                                               |                                       |             |             |                                  |
| 7622-S-INV-2 (L)                                                                                     | 110 kV | 0.69 – 1.22 (17,5 – 31,0)                     | 1/0 – 4/0                             | NA          | NA          | QL2-A-2-250                      |
| 7693-S-INV-4                                                                                         | 200 kV | 0.72 – 1.29 (18,3 – 32,8)                     | 2/0 – 250                             | 2 – 4/0     | 1/0 – 2/0   | QL2-A-2-250                      |
| 7695-S-INV-4                                                                                         | 200 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500                                   | 250 – 500   | 4/0 – 600   | QL2-A-4/0-600                    |
| 7695-S-INV-4                                                                                         | 200 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500 – 750                             | 350 – 750   | 350 – 500   | QL2-A-350-750                    |
| 7695-S-INV-4 (L)                                                                                     | 200 kV | 1.15 – 1.90 (29,2 – 48,3)                     | 750 – 1000                            | 500 – 750   | NA          | QL2-A-500-1000                   |
| 7696-S-INV-4                                                                                         | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | NA                                    | NA          | 750         | QL2-A-350-750                    |
| 7696-S-INV-4                                                                                         | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | NA                                    | NA          | 750 – 1000  | QL2-A-500-1000                   |
| 7696-S-INV-4                                                                                         | 200 kV | 1.53 – 2.32 (38,9 – 58,9)                     | 1250                                  | 1000 – 1250 | 1000 – 1250 | QL2-A-1000-1250                  |

# TOP INSULATOR

## Single Core Termination Kits

3M™ Cold Shrink QT-III Silicone Rubber Terminations with Top Insulator for use with Shearbolt Lugs

| Kit Number                                                                                                     | BIL    | Cable Insulation<br>O.D. Range<br>Inches (mm) | Conductor Size Range<br>AWG and kcmil |             |       | 3M™ Shearbolt Lug<br>Part Number |
|----------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------|---------------------------------------|-------------|-------|----------------------------------|
|                                                                                                                |        |                                               | 15 kV                                 | 25/28 kV    | 35 kV |                                  |
| Top Insulator Kits for Concentric and Jacketed Concentric Neutral Cable Kits (Each kit makes one termination.) |        |                                               |                                       |             |       |                                  |
| 7642-S-2-TI (L)                                                                                                | 110 kV | 0.69 – 1.22 (17,5 – 31,0)                     | 1/0 – 4/0                             | NA          | NA    | QL2-A-2-250                      |
| 7652-S-4-TI (L)                                                                                                | 150 kV | 0.69 – 1.22 (17,5 – 31,0)                     | 1/0 – 4/0                             | NA          | NA    | QL2-A-2-250                      |
| 7653-S-4-TI                                                                                                    | 150 kV | 0.72 – 1.29 (18,3 – 32,8)                     | 2/0 – 250                             | 2 – 4/0     | NA    | QL2-A-2-250                      |
| 7654-S-4-TI                                                                                                    | 150 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 2/0 – 250   | NA    | QL2-A-2-250                      |
| 7654-S-4-TI                                                                                                    | 150 kV | 0.83 – 1.53 (21,1 – 38,9)                     | 4/0 – 350                             | 2/0 – 250   | NA    | QL2-A-1/0-350                    |
| 7654-S-4-TI                                                                                                    | 150 kV | 0.83 – 1.53 (21,1 – 38,9)                     | NA                                    | 4/0 – 250   | NA    | QL2-A-4/0-600                    |
| 7655-S-4-TI                                                                                                    | 150 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500                                   | 250 – 500   | NA    | QL2-A-4/0-600                    |
| 7655-S-4-TI                                                                                                    | 150 kV | 1.05 – 1.80 (26,7 – 45,7)                     | 500 – 750                             | 350 – 750   | NA    | QL2-A-350-750                    |
| 7655-S-4-TI (L)                                                                                                | 150 kV | 1.15 – 1.98 (29,2 – 50,3)                     | 750 – 1000                            | 500 – 750   | NA    | QL2-A-500-1000                   |
| 7656-S-4-TI                                                                                                    | 150 kV | 1.53 – 2.32 (38,9 – 58,9)                     | 1250                                  | 1000 – 1250 | NA    | QL2-A-1000-1250                  |

# Three Core Termination Kits

| Kit Series              | Insulator Configuration | Installation Environment                  | For Cable Type(s) with or without Ground Wires | Page Number |
|-------------------------|-------------------------|-------------------------------------------|------------------------------------------------|-------------|
| <b>7600-T-3-RJS</b>     | Tubular                 | Indoor: Cabinet Mount (No Breakout Boot)  | With or without ground wires                   | <b>12</b>   |
| <b>7600-T-3G</b>        | Tubular                 | Indoor                                    | With ground wires                              | <b>16</b>   |
| <b>7600-T-3W</b>        | Tubular                 | Indoor                                    | Without ground wires                           | <b>18</b>   |
| <b>7600-S-3-RJS</b>     | Skirted                 | Indoor-Cabinet Mount (No Breakout Boot)   | With or without ground wires                   | <b>20</b>   |
| <b>7600-S-3G</b>        | Skirted                 | Outdoor                                   | With ground wires                              | <b>14</b>   |
| <b>7600-S-3W</b>        | Skirted                 | Outdoor                                   | Without ground wires                           | <b>20</b>   |
| <b>7600-S-INV-3-RJS</b> | Inverted/Skirted        | Outdoor: Cabinet Mount (No Breakout Boot) | With or without ground wires                   | <b>22</b>   |
| <b>7600-S-INV-3G</b>    | Inverted/Skirted        | Outdoor                                   | With ground wires                              | <b>22</b>   |
| <b>7600-S-INV-3W</b>    | Inverted/Skirted        | Outdoor                                   | Without ground wires                           | <b>22</b>   |

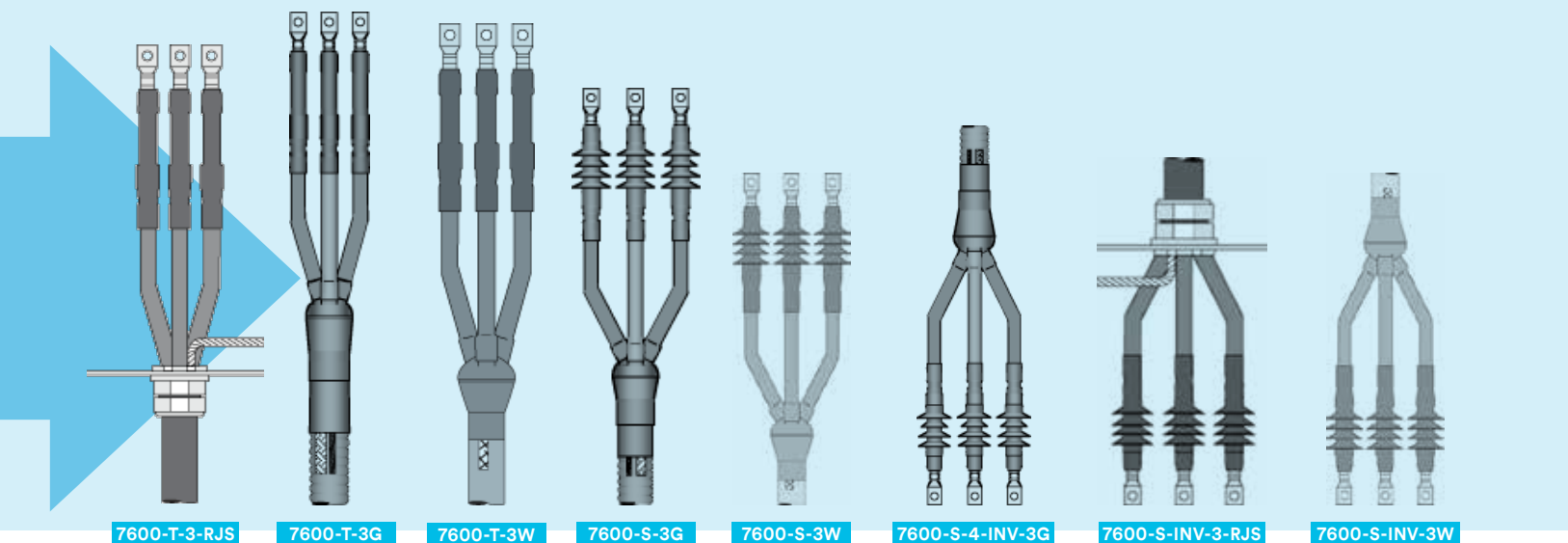
## INDOOR Three Core Termination Kits

3M™ Cold Shrink QT-III Indoor Termination Kit 7600-T-3-RJS Series  
for 5-35 kV Tape Shield (Armored or Unarmored), Wire Shield\*, UniShield®\* Cables

| Kit Number                                                                                     | BIL    | Max. Installed Length<br>Inches (mm) | Cable Insulation<br>O.D. Range<br>Inches (mm) | 3.3 kV                                                         | 5.0 kV                   | 6.6 kV                                                         |
|------------------------------------------------------------------------------------------------|--------|--------------------------------------|-----------------------------------------------|----------------------------------------------------------------|--------------------------|----------------------------------------------------------------|
| <b>Indoor cabinet mount installation environment. For cables with or without ground wires.</b> |        |                                      |                                               |                                                                |                          |                                                                |
| <b>7620-T-95-3-RJS</b>                                                                         | 95 kV  | 8.5 (216)                            | 0.33 – 0.50 (8,4 – 12,7)                      | IEC 16 – 35 mm <sup>2</sup><br>JIS 8 – 22 mm <sup>2</sup>      | AEIC 8 – 2 AWG           | IEC 16 – 25 mm <sup>2</sup>                                    |
| <b>7621-T-95-3-RJS</b>                                                                         | 95 kV  | 8.5 (216)                            | 0.50 – 0.70 (12,7 – 17,8)                     | IEC 50 – 95 mm <sup>2</sup><br>JIS 38 – 60 mm <sup>2</sup>     | AEIC 1 – 3/0 AWG         | IEC 35 – 70 mm <sup>2</sup>                                    |
| <b>7623-T-95-3-RJS</b>                                                                         | 95 kV  | 8.5 (216)                            | 0.70 – 0.92 (17,8 – 23,4)                     | IEC 120 – 185 mm <sup>2</sup><br>JIS 100 – 150 mm <sup>2</sup> | AEIC 4/0 AWG – 400 kcmil | IEC 95 – 150 mm <sup>2</sup>                                   |
| <b>7624-T-95-3-RJS</b>                                                                         | 95 kV  | 8.5 (216)                            | 0.92 – 1.18 (23,4 – 30,0)                     | IEC 240 – 300 mm <sup>2</sup><br>JIS 200 – 250 mm <sup>2</sup> | AEIC 500 – 750 kcmil     | IEC 185 – 300 mm <sup>2</sup>                                  |
| <b>7625-T-95-3-RJS</b>                                                                         | 95 kV  | 8.5 (216)                            | 1.18 – 1.52 (30,0 – 38,6)                     | –                                                              | AEIC 700 – 1000 kcmil    | –                                                              |
| <b>7621-T-110-3-RJS</b>                                                                        | 110 kV | 12.0 (305)                           | 0.50 – 0.70 (12,7 – 17,8)                     | IEC 50 – 95 mm <sup>2</sup><br>JIS 38 – 60 mm <sup>2</sup>     | AEIC 1 – 3/0 AWG         | IEC 35 – 70 mm <sup>2</sup><br>JIS 14 – 38 mm <sup>2</sup>     |
| <b>7622-T-110-3-RJS</b>                                                                        | 110 kV | 12.0 (305)                           | 0.70 – 0.92 (17,8 – 23,4)                     | IEC 120 – 185 mm <sup>2</sup><br>JIS 100 – 150 mm <sup>2</sup> | AEIC 4/0 AWG – 400 kcmil | IEC 95 – 150 mm <sup>2</sup><br>JIS 60 – 100 mm <sup>2</sup>   |
| <b>7624-T-110-3-RJS</b>                                                                        | 110 kV | 12.0 (305)                           | 0.92 – 1.18 (23,4 – 30,0)                     | IEC 240 – 300 mm <sup>2</sup><br>JIS 200 – 250 mm <sup>2</sup> | AEIC 500 – 750 kcmil     | IEC 185 – 300 mm <sup>2</sup><br>JIS 150 – 250 mm <sup>2</sup> |
| <b>7625-T-110-3-RJS</b>                                                                        | 110 kV | 12.0 (305)                           | 1.18 – 1.52 (30,0 – 38,6)                     | JIS 300 – 325 mm <sup>2</sup>                                  | AEIC 800 – 1000 kcmil    | JIS 300 – 325 mm <sup>2</sup>                                  |
| <b>7622-T-125-3-RJS</b>                                                                        | 125 kV | 10.5 (267)                           | 0.70 – 0.92 (17,8 – 23,4)                     | IEC 120 – 185 mm <sup>2</sup><br>JIS 100 – 150 mm <sup>2</sup> | AEIC 4/0 AWG – 400 kcmil | IEC 95 – 150 mm <sup>2</sup><br>JIS 60 – 100 mm <sup>2</sup>   |
| <b>7624-T-125-3-RJS</b>                                                                        | 125 kV | 10.5 (267)                           | 0.92 – 1.18 (23,4 – 30,0)                     | IEC 240 – 300 mm <sup>2</sup><br>JIS 200 – 250 mm <sup>2</sup> | AEIC 500 – 750 kcmil     | IEC 185 – 300 mm <sup>2</sup><br>JIS 150 – 250 mm <sup>2</sup> |
| <b>7625-T-125-3-RJS</b>                                                                        | 125 kV | 10.5 (267)                           | 1.18 – 1.52 (30,0 – 38,6)                     | JIS 300 – 325 mm <sup>2</sup>                                  | AEIC 800 – 1000 kcmil    | JIS 300 – 325 mm <sup>2</sup>                                  |
| <b>7693-T-150-3-RJS</b>                                                                        | 150 kV | 16.0 (406)                           | 0.70 – 0.92 (17,8 – 23,4)                     | IEC 120 – 185 mm <sup>2</sup><br>JIS 100 – 150 mm <sup>2</sup> | AEIC 4/0 AWG – 400 kcmil | IEC 95 – 150 mm <sup>2</sup><br>JIS 60 – 100 mm <sup>2</sup>   |
| <b>7694-T-150-3-RJS</b>                                                                        | 150 kV | 16.0 (406)                           | 0.92 – 1.18 (23,4 – 30,0)                     | IEC 240 – 300 mm <sup>2</sup><br>JIS 200 – 250 mm <sup>2</sup> | AEIC 500 – 750 kcmil     | IEC 185 – 300 mm <sup>2</sup><br>JIS 150 – 250 mm <sup>2</sup> |
| <b>7695-T-150-3-RJS</b>                                                                        | 150 kV | 16.0 (406)                           | 1.18 – 1.52 (30,0 – 38,6)                     | JIS 300 – 325 mm <sup>2</sup>                                  | AEIC 800 – 1000 kcmil    | JIS 300 – 325 mm <sup>2</sup>                                  |
| <b>7696-T-150-3-RJS</b>                                                                        | 150 kV | 16.0 (406)                           | 1.53 – 1.81 (38,4 – 46,0)                     | –                                                              | –                        | –                                                              |

\*Note: For Wire or UniShield® shielding, please contact 3M for technical assistance.





| Conductor Size Range 100% Insulation Level |                               |                                                       |                               |                          |                          |
|--------------------------------------------|-------------------------------|-------------------------------------------------------|-------------------------------|--------------------------|--------------------------|
| 8 kV                                       | 10 kV                         | 15 kV                                                 | 20 kV                         | 25/28 kV                 | 35 kV                    |
| AEIC 6 – 4 AWG                             | –                             | –                                                     | –                             | –                        | –                        |
| AEIC 2 – 2/0 AWG                           | IEC 10 – 50 mm <sup>2</sup>   | IEC 16 – 25 mm <sup>2</sup>                           | –                             | –                        | –                        |
| AEIC 3/0 AWG – 350 kcmil                   | IEC 70 – 150 mm <sup>2</sup>  | IEC 35 – 95 mm <sup>2</sup>                           | –                             | –                        | –                        |
| AEIC 400 – 600 kcmil                       | IEC 185 – 300 mm <sup>2</sup> | IEC 120 – 185 mm <sup>2</sup>                         | –                             | –                        | –                        |
| AEIC 700 – 1000 kcmil                      | –                             | –                                                     | –                             | –                        | –                        |
| AEIC 2 – 2/0 AWG                           | IEC 10 – 50 mm <sup>2</sup>   | IEC 16 – 25 mm <sup>2</sup><br>AEIC 2 – 1 AWG         | –                             | –                        | –                        |
| AEIC 3/0 AWG – 350 kcmil                   | IEC 70 – 150 mm <sup>2</sup>  | IEC 35 – 95 mm <sup>2</sup><br>AEIC 1/0 – 4/0 AWG     | –                             | –                        | –                        |
| AEIC 400 – 600 kcmil                       | IEC 185 – 300 mm <sup>2</sup> | IEC 120 – 185 mm <sup>2</sup><br>AEIC 250 – 450 kcmil | –                             | –                        | –                        |
| AEIC 750 – 1000 kcmil                      | –                             | IEC 200 – 325 mm <sup>2</sup><br>AEIC 500 – 750 kcmil | –                             | –                        | –                        |
| AEIC 3/0 AWG – 350 kcmil                   | IEC 70 – 150 mm <sup>2</sup>  | IEC 35 – 95 mm <sup>2</sup><br>AEIC 1/0 – 4/0 AWG     | IEC 25 – 70 mm <sup>2</sup>   | –                        | –                        |
| AEIC 400 – 600 kcmil                       | IEC 185 – 300 mm <sup>2</sup> | IEC 120 – 185 mm <sup>2</sup><br>AEIC 250 – 450 kcmil | IEC 95 – 185 mm <sup>2</sup>  | –                        | –                        |
| AEIC 750 – 1000 kcmil                      | –                             | IEC 200 – 325 mm <sup>2</sup><br>AEIC 500 – 750 kcmil | IEC 240 – 300 mm <sup>2</sup> | –                        | –                        |
| AEIC 3/0 AWG – 350 kcmil                   | IEC 70 – 150 mm <sup>2</sup>  | IEC 35 – 95 mm <sup>2</sup><br>AEIC 1/0 – 4/0 AWG     | IEC 25 – 70 mm <sup>2</sup>   | AEIC 2 – 1/0 AWG         | –                        |
| AEIC 400 – 600 kcmil                       | IEC 185 – 300 mm <sup>2</sup> | IEC 120 – 185 mm <sup>2</sup><br>AEIC 250 – 450 kcmil | IEC 95 – 185 mm <sup>2</sup>  | AEIC 2/0 AWG – 250 kcmil | AEIC 1/0 – 3/0 AWG       |
| AEIC 750 – 1000 kcmil                      | –                             | IEC 200 – 325 mm <sup>2</sup><br>AEIC 500 – 750 kcmil | IEC 240 – 300 mm <sup>2</sup> | AEIC 300 – 500 kcmil     | AEIC 4/0 AWG – 500 kcmil |
| –                                          | –                             | –                                                     | –                             | AEIC 750 kcmil           | AEIC 500 – 750 kcmil     |

# OUTDOOR

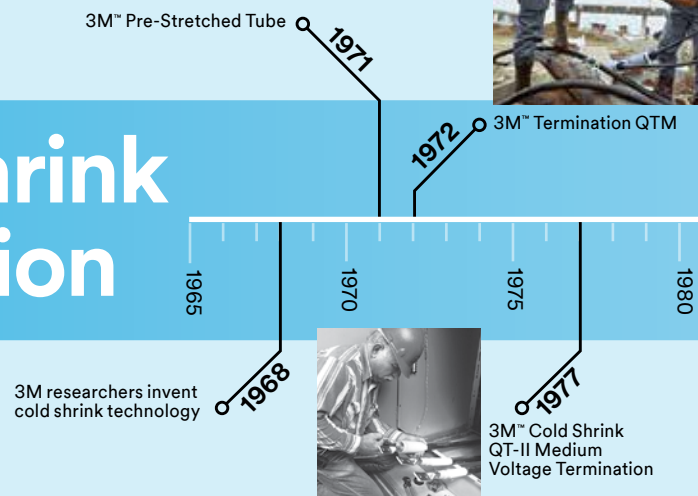
## Three Core Termination Kits

3M™ Cold Shrink QT-III Termination Kit 7600-S-3-RJS Series  
for 5-35 kV Tape Shield (Armored or Unarmored), Wire Shield\*, UniShield®\* Cables

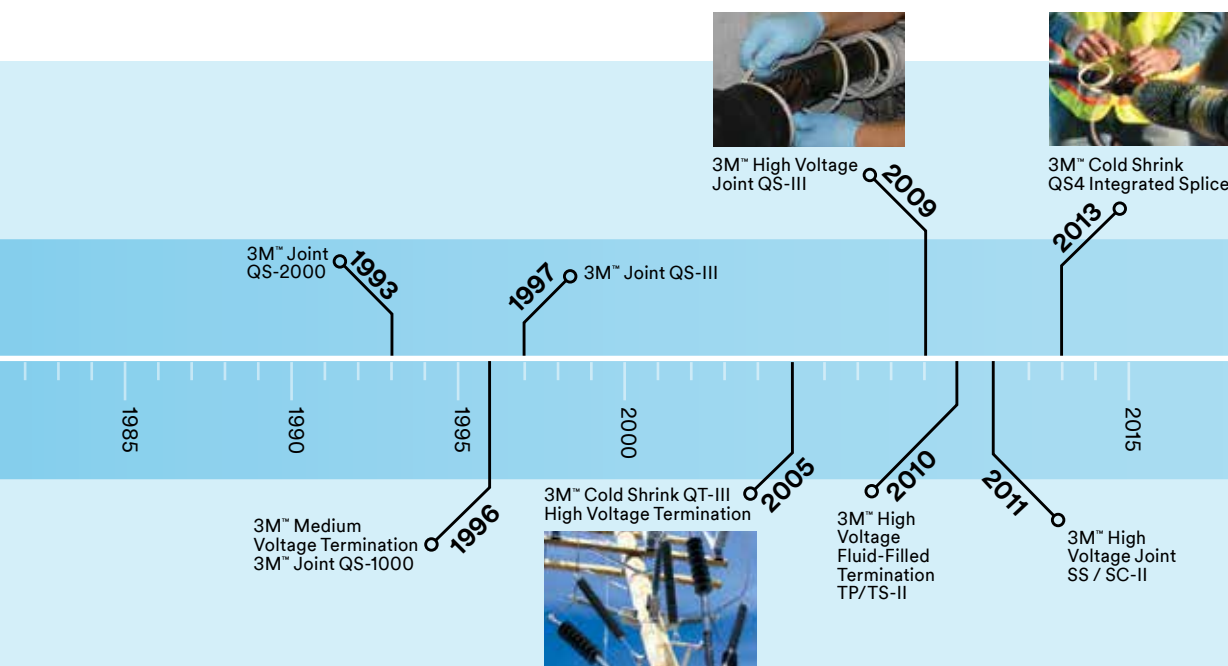
| Kit Number                                                                                                                               | Skirts | BIL    | Max. Installed Length<br>Inches (mm) | Cable Insulation<br>O.D. Range<br>Inches (mm) | 3.3 kV                                                     | 5.0 kV                 | 6.6 kV                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------------------------------------|-----------------------------------------------|------------------------------------------------------------|------------------------|------------------------------------------------------------|
| <b>Outdoor installation environment. For cables with or without ground wires. (Each kit makes one Three Core conductor termination.)</b> |        |        |                                      |                                               |                                                            |                        |                                                            |
| <b>7620-S-2-3-RJS</b>                                                                                                                    | 2      | 95 kV  | 10.5 (267)                           | 0.33–0.50 (8,4–12,7)                          | IEC 16–35 mm <sup>2</sup><br>JIS 8–22 mm <sup>2</sup>      | AEIC 8–2 AWG           | IEC 16–25 mm <sup>2</sup>                                  |
| <b>7621-S-2-3-RJS</b>                                                                                                                    | 2      | 95 kV  | 10.5 (267)                           | 0.50–0.70 (12,7–17,8)                         | IEC 50–95 mm <sup>2</sup><br>JIS 38–60 mm <sup>2</sup>     | AEIC 1–3/0 AWG         | IEC 35–70 mm <sup>2</sup>                                  |
| <b>7622-S-2-3-RJS</b>                                                                                                                    | 2      | 110 kV | 9.8 (249)                            | 0.70–0.92 (17,8–23,4)                         | IEC 120–185 mm <sup>2</sup><br>JIS 100–150 mm <sup>2</sup> | AEIC 4/0 AWG–400 kcmil | IEC 95–150 mm <sup>2</sup><br>JIS 60–100 mm <sup>2</sup>   |
| <b>7691-S-4-3-RJS</b>                                                                                                                    | 4      | 150 kV | 12.25 (311)                          | 0.50–0.70 (12,7–17,8)                         | IEC 50–95 mm <sup>2</sup><br>JIS 38–60 mm <sup>2</sup>     | AEIC 1-3/0 AWG         | IEC 35–70 mm <sup>2</sup>                                  |
| <b>7692-S-4-3-RJS</b>                                                                                                                    | 4      | 150 kV | 12.25 (311)                          | 0.70–0.92 (17,8–23,4)                         | IEC 120–185 mm <sup>2</sup><br>JIS 100–150 mm <sup>2</sup> | AEIC 4/0 AWG–400 kcmil | IEC 95–150 mm <sup>2</sup><br>JIS 60–100 mm <sup>2</sup>   |
| <b>7693-S-4-3-RJS</b>                                                                                                                    | 4      | 150 kV | 12.25 (311)                          | 0.92–1.18 (23,4–30,0)                         | IEC 240–300 mm <sup>2</sup><br>JIS 200–250 mm <sup>2</sup> | AEIC 500–750 kcmil     | IEC 185–300 mm <sup>2</sup><br>JIS 150–250 mm <sup>2</sup> |
| <b>7695-S-4-3-RJS</b>                                                                                                                    | 4      | 150 kV | 12.25 (311)                          | 1.18–1.52 (30,0–38,6)                         | JIS 300–325 mm <sup>2</sup>                                | AEIC 800–1000 kcmil    | JIS 300–325 mm <sup>2</sup>                                |
| <b>7684-S-8-3-RJS</b>                                                                                                                    | 8      | 200 kV | 20.5 (521)                           | 0.92–1.18 (23,4–30,0)                         | IEC 240–300 mm <sup>2</sup><br>JIS 200–250 mm <sup>2</sup> | AEIC 500–750 kcmil     | IEC 185–300 mm <sup>2</sup><br>JIS 150–250 mm <sup>2</sup> |
| <b>7685-S-8-3-RJS</b>                                                                                                                    | 8      | 200 kV | 20.5 (521)                           | 1.18–1.52 (30,0–38,6)                         | JIS 300–325 mm <sup>2</sup>                                | AEIC 800–1000 kcmil    | JIS 300–325 mm <sup>2</sup>                                |
| <b>7686-S-8-3-RJS</b>                                                                                                                    | 8      | 200 kV | 21.5 (546)                           | 1.53–1.81 (38,8–46,0)                         | –                                                          | –                      | –                                                          |

\*Note: For Wire or UniShield® shielding, please contact 3M for technical assistance.

## A History of Cold Shrink Technology Innovation



| Conductor Size Range 100% Insulation Level |                             |                                                   |                             |                        |                             |                        |
|--------------------------------------------|-----------------------------|---------------------------------------------------|-----------------------------|------------------------|-----------------------------|------------------------|
| 8 kV                                       | 10 kV                       | 15 kV                                             | 20 kV                       | 25/28 kV               | 30 kV                       | 35 kV                  |
| AEIC 6-4 AWG                               | –                           | –                                                 | –                           | –                      | –                           | –                      |
| AEIC 2–2/0 AWG                             | IEC 10–50 mm <sup>2</sup>   | IEC 16–25 mm <sup>2</sup>                         | –                           | –                      | –                           | –                      |
| AEIC 3/0 AWG–350 kcmil                     | IEC 70–150 mm <sup>2</sup>  | IEC 35–95 mm <sup>2</sup><br>AEIC 1/0–4/0 AWG     | –                           | –                      | –                           | –                      |
| AEIC 2–2/0 AWG                             | IEC 10–50 mm <sup>2</sup>   | IEC 16–25 mm <sup>2</sup><br>AEIC 2-1 AWG         | –                           | –                      | –                           | –                      |
| AEIC 3/0 AWG–350 kcmil                     | IEC 70–150 mm <sup>2</sup>  | IEC 35–95 mm <sup>2</sup><br>AEIC 1/0–4/0 AWG     | IEC 25–70 mm <sup>2</sup>   | AEIC 2–1/0 AWG         | –                           | –                      |
| AEIC 400–600 kcmil                         | IEC 185–300 mm <sup>2</sup> | IEC 120–185 mm <sup>2</sup><br>AEIC 250–450 kcmil | IEC 95–185 mm <sup>2</sup>  | AEIC 2/0 AWG–250 kcmil | –                           | –                      |
| AEIC 750–1000 kcmil                        | –                           | IEC 200–325 mm <sup>2</sup><br>AEIC 500–750 kcmil | IEC 240–300 mm <sup>2</sup> | AEIC 300–500 kcmil     | –                           | –                      |
| AEIC 400–600 kcmil                         | IEC 185–300 mm <sup>2</sup> | IEC 120–185 mm <sup>2</sup><br>AEIC 250–450 kcmil | IEC 95–185 mm <sup>2</sup>  | AEIC 2/0 AWG–250 kcmil | IEC 35-70 mm <sup>2</sup>   | AEIC 1/0–3/0 AWG       |
| AEIC 750–1000 kcmil                        | –                           | IEC 200–325 mm <sup>2</sup><br>AEIC 500–750 kcmil | IEC 240–300 mm <sup>2</sup> | AEIC 300–500 kcmil     | IEC 95-240 mm <sup>2</sup>  | AEIC 4/0 AWG–500 kcmil |
| –                                          | –                           | –                                                 | –                           | AEIC 750 kcmil         | IEC 240-325 mm <sup>2</sup> | AEIC 500–750 kcmil     |



**Tomorrow**  
What will we  
invent next to  
solve your  
needs?

# INDOOR

## Three Core Termination Kits

3M™ Cold Shrink QT-III Indoor Termination Kit 7600-T-3G Series  
for 5-35 kV Tape Shield (Armored or Unarmored), Wire Shield\*, UniShield®\* Cables

| Kit Number                                                                                              | BIL    | Max. Installed Length<br>Inches (mm) | Cable Insulation<br>O.D. Range<br>Inches (mm) | Max. Cable O.D.<br>Inches (mm) |
|---------------------------------------------------------------------------------------------------------|--------|--------------------------------------|-----------------------------------------------|--------------------------------|
| <b>Indoor installation environment. For cables with ground wires. (Each kit makes one termination.)</b> |        |                                      |                                               |                                |
| 7620-T-95-3G                                                                                            | 95 kV  | 8.5 (216)                            | 0.33 – 0.50 (8,4 – 12,7)                      | 2.20 (55,9)                    |
| 7621-T-95-3G                                                                                            | 95 kV  | 8.5 (216)                            | 0.50 – 0.70 (12,7 – 17,8)                     | 2.80 (71,1)                    |
| 7623-T-95-3G                                                                                            | 95 kV  | 8.5 (216)                            | 0.70 – 0.92 (17,8 – 23,4)                     | 3.30 (83,8)                    |
| 7624-T-95-3G                                                                                            | 95 kV  | 8.5 (216)                            | 0.92 – 1.18 (23,4 – 30,0)                     | 3.90 (99,1)                    |
| 7625-T-95-3G                                                                                            | 95 kV  | 8.5 (216)                            | 1.18 – 1.52 (30,0 – 38,4)                     | 4.50 (114,3)                   |
| 7621-T-110-3G                                                                                           | 110 kV | 12.0 (305)                           | 0.50 – 0.70 (12,7 – 17,8)                     | 2.80 (71,1)                    |
| 7622-T-110-3G                                                                                           | 110 kV | 12.0 (305)                           | 0.70 – 0.92 (17,8 – 23,4)                     | 3.30 (83,8)                    |
| 7624-T-110-3G                                                                                           | 110 kV | 12.0 (305)                           | 0.92 – 1.18 (23,4 – 30,0)                     | 3.90 (99,1)                    |
| 7625-T-110-3G                                                                                           | 110 kV | 12.0 (305)                           | 1.18 – 1.52 (30,0 – 38,4)                     | 4.50 (114,3)                   |
| 7693-T-150-3G                                                                                           | 150 kV | 16.0 (406)                           | 0.70 – 0.92 (17,8 – 23,4)                     | 3.30 (83,8)                    |
| 7694-T-150-3G                                                                                           | 150 kV | 16.0 (406)                           | 0.92 – 1.18 (23,4 – 30,0)                     | 3.90 (99,1)                    |
| 7695-T-150-3G                                                                                           | 150 kV | 16.0 (406)                           | 1.18 – 1.52 (30,0 – 38,4)                     | 4.50 (114,3)                   |
| 7696-T-150-3G                                                                                           | 150 kV | 16.0 (406)                           | 1.53 – 1.81 (38,8 – 46,0)                     | 5.40 (137,2)                   |

\*Note: For Wire or UniShield® shielding, please contact 3M for technical assistance.





| Conductor Size Range 100% (133%) Insulation Level |                                              |                                          |                                      |                                              |
|---------------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------|----------------------------------------------|
| 5 kV                                              | 8 kV                                         | 15 kV                                    | 25/28 kV                             | 35 kV                                        |
| 8 – 2 AWG<br>(6 – 4 AWG)                          | 6 – 4 AWG<br>(6 – 4 AWG)                     | –                                        | –                                    | –                                            |
| 1 – 3/0 AWG<br>(2 – 2/0 AWG)                      | 2 – 2/0 AWG<br>(2 – 2/0 AWG)                 | –                                        | –                                    | –                                            |
| 4/0 AWG – 350 kcmil<br>(3/0 AWG – 350 kcmil)      | 3/0 AWG – 350 kcmil<br>(3/0 AWG – 350 kcmil) | –                                        | –                                    | –                                            |
| 400 – 500 kcmil<br>(400 – 500 kcmil)              | 400 – 500 kcmil<br>(400 – 500 kcmil)         | –                                        | –                                    | –                                            |
| 700 – 1000 kcmil<br>(700 – 1000 kcmil)            | 700 – 1000 kcmil<br>(700 – 1000 kcmil)       | –                                        | –                                    | –                                            |
| 1 – 3/0 AWG<br>(2 – 2/0 AWG)                      | 2 – 2/0 AWG<br>(2 – 2/0 AWG)                 | 2 – 1 AWG<br>–                           | –                                    | –                                            |
| 4/0 AWG – 350 kcmil<br>(3/0 AWG – 350 kcmil)      | 3/0 AWG – 350 kcmil<br>(3/0 AWG – 350 kcmil) | 1/0 – 4/0 AWG<br>(2 – 3/0 AWG)           | –                                    | –                                            |
| 400 – 500 kcmil<br>(400 – 500 kcmil)              | 400 – 500 kcmil<br>(400 – 500 kcmil)         | 250 – 350 kcmil<br>(4/0 AWG – 350 kcmil) | –                                    | –                                            |
| 700 – 1000 kcmil<br>(700 – 1000 kcmil)            | 700 – 1000 kcmil<br>(700 – 1000 kcmil)       | 500 – 750 kcmil<br>(500 – 750 kcmil)     | –                                    | –                                            |
| 4/0 AWG – 350 kcmil<br>(3/0 AWG – 350 kcmil)      | 3/0 AWG – 350 kcmil<br>(3/0 AWG – 350 kcmil) | 1/0 – 4/0 AWG<br>(2 – 3/0 AWG)           | 1 – 1/0 AWG<br>–                     | –                                            |
| 400 – 500 kcmil<br>(400 – 500 kcmil)              | 400 – 500 kcmil<br>(400 – 500 kcmil)         | 250 – 350 kcmil<br>(4/0 AWG – 350 kcmil) | 2/0 AWG – 250 kcmil<br>(1 – 4/0 AWG) | 1/0 – 3/0 AWG<br>–                           |
| 700 – 1000 kcmil<br>(700 – 1000 kcmil)            | 700 – 1000 kcmil<br>(700 – 1000 kcmil)       | 500 – 750 kcmil<br>(500 – 750 kcmil)     | 350 – 500 kcmil<br>(250 – 500 kcmil) | 4/0 AWG – 500 kcmil<br>(1/0 AWG – 350 kcmil) |
| –                                                 | –                                            | –<br>(1000 kcmil)                        | 750 kcmil<br>(500 – 750 kcmil)       | 500 – 750 kcmil<br>(350 – 750 kcmil)         |

# INDOOR

## Three Core Termination Kits

3M™ Cold Shrink QT-III Indoor Termination Kit 7600-T-3W Series  
for 5-35 kV Tape Shield (Armored or Unarmored), Wire Shield\*, UniShield®\* Cables

| Kit Number                                                                                                               | BIL    | Max. Installed Length<br>Inches (mm) | Cable Insulation<br>O.D. Range<br>Inches (mm) | 3.3 kV                                                         | 5.0 kV                   |
|--------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------|-----------------------------------------------|----------------------------------------------------------------|--------------------------|
| Indoor installation environment. For cables without ground wires. (Each kit makes one Three Core conductor termination.) |        |                                      |                                               |                                                                |                          |
| 7620-T-95-3W                                                                                                             | 95 kV  | 8.5 (216)                            | 0.33 – 0.50 (8,4 – 12,7)                      | IEC 16 – 35 mm <sup>2</sup><br>JIS 8 – 22 mm <sup>2</sup>      | AEIC 8 – 2 AWG           |
| 7621-T-95-3W                                                                                                             | 95 kV  | 8.5 (216)                            | 0.50 – 0.70 (12,7 – 17,8)                     | IEC 50 – 95 mm <sup>2</sup><br>JIS 38 – 60 mm <sup>2</sup>     | AEIC 1 – 3/0 AWG         |
| 7623-T-95-3W                                                                                                             | 95 kV  | 8.5 (216)                            | 0.70 – 0.92 (17,8 – 23,4)                     | IEC 120 – 185 mm <sup>2</sup><br>JIS 100 – 150 mm <sup>2</sup> | AEIC 4/0 AWG – 400 kcmil |
| 7624-T-95-3W                                                                                                             | 95 kV  | 8.5 (216)                            | 0.92 – 1.18 (23,4 – 30,0)                     | IEC 240 – 300 mm <sup>2</sup><br>JIS 200 – 250 mm <sup>2</sup> | AEIC 500 – 750 kcmil     |
| 7625-T-95-3W                                                                                                             | 95 kV  | 8.5 (216)                            | 1.18 – 1.52 (30,0 – 38,6)                     | JIS 300 – 325 mm <sup>2</sup>                                  | AEIC 800 – 1000 kcmil    |
| 7621-T-110-3W                                                                                                            | 110 kV | 12.0 (305)                           | 0.50 – 0.70 (12,7 – 17,8)                     | IEC 50 – 95 mm <sup>2</sup><br>JIS 38 – 60 mm <sup>2</sup>     | AEIC 1 – 3/0 AWG         |
| 7622-T-110-3W                                                                                                            | 110 kV | 12.0 (305)                           | 0.70 – 0.92 (17,8 – 23,4)                     | IEC 120 – 185 mm <sup>2</sup><br>JIS 100 – 150 mm <sup>2</sup> | AEIC 4/0 AWG – 400 kcmil |
| 7624-T-110-3W                                                                                                            | 110 kV | 12.0 (305)                           | 0.92 – 1.18 (23,4 – 30,0)                     | IEC 240 – 300 mm <sup>2</sup><br>JIS 200 – 250 mm <sup>2</sup> | AEIC 500 – 750 kcmil     |
| 7625-T-110-3W                                                                                                            | 110 kV | 12.0 (305)                           | 1.18 – 1.52 (30,0 – 38,6)                     | JIS 300 – 325 mm <sup>2</sup>                                  | AEIC 800 – 1000 kcmil    |
| 7625-T-125-3W                                                                                                            | 125 kV | 10.5 (267)                           | 1.18 – 1.52 (30,0 – 38,6)                     | JIS 300 – 325 mm <sup>2</sup>                                  | AEIC 800 – 1000 kcmil    |
| 7693-T-150-3W                                                                                                            | 150 kV | 16.00 (406)                          | 0.70 – 0.92 (17,8 – 23,4)                     | IEC 120 – 185 mm <sup>2</sup><br>JIS 100 – 150 mm <sup>2</sup> | AEIC 4/0 AWG – 400 kcmil |
| 7694-T-150-3W                                                                                                            | 150 kV | 16.00 (406)                          | 0.92 – 1.18 (23,4 – 30,0)                     | IEC 240 – 300 mm <sup>2</sup><br>JIS 200 – 250 mm <sup>2</sup> | AEIC 500 – 750 kcmil     |
| 7695-T-150-3W                                                                                                            | 150 kV | 16.00 (406)                          | 1.18 – 1.52 (30,0 – 38,6)                     | JIS 300 – 325 mm <sup>2</sup>                                  | AEIC 800 – 1000 kcmil    |

\*Note: For Wire or UniShield® shielding, please contact 3M for technical assistance.



| Conductor Size Range 100% Insulation Level                     |                          |                               |                                                       |                               |                          |                          |
|----------------------------------------------------------------|--------------------------|-------------------------------|-------------------------------------------------------|-------------------------------|--------------------------|--------------------------|
| 6.6 kV                                                         | 8 kV                     | 10 kV                         | 15 kV                                                 | 20 kV                         | 25/28 kV                 | 35 kV                    |
| JIS 16 – 25 mm <sup>2</sup>                                    | AEIC 6 – 4 AWG           | –                             | –                                                     | –                             | –                        | –                        |
| JIS 35 – 70 mm <sup>2</sup>                                    | AEIC 2 – 2/0 AWG         | IEC 10 – 50 mm <sup>2</sup>   | IEC 16 – 25 mm <sup>2</sup>                           | –                             | –                        | –                        |
| JIS 95 – 150 mm <sup>2</sup>                                   | AEIC 3/0 AWG – 350 kcmil | IEC 70 – 150 mm <sup>2</sup>  | IEC 35 – 95 mm <sup>2</sup>                           | –                             | –                        | –                        |
| JIS 185 – 300 mm <sup>2</sup>                                  | AEIC 400 – 600 kcmil     | IEC 185 – 300 mm <sup>2</sup> | IEC 120 – 185 mm <sup>2</sup>                         | –                             | –                        | –                        |
| –                                                              | AEIC 750 – 1000 kcmil    | –                             | IEC 200 – 325 mm <sup>2</sup>                         | –                             | –                        | –                        |
| IEC 14 – 38 mm <sup>2</sup><br>JIS 35 – 70 mm <sup>2</sup>     | AEIC 2 – 2/0 AWG         | IEC 10 – 50 mm <sup>2</sup>   | IEC 16 – 25 mm <sup>2</sup><br>AEIC 2 – 1 AWG         | –                             | –                        | –                        |
| IEC 60 – 100 mm <sup>2</sup><br>JIS 95 – 150 mm <sup>2</sup>   | AEIC 3/0 AWG – 350 kcmil | IEC 70 – 150 mm <sup>2</sup>  | IEC 35 – 95 mm <sup>2</sup><br>AEIC 1/0 – 4/0 AWG     | –                             | –                        | –                        |
| IEC 150 – 250 mm <sup>2</sup><br>JIS 185 – 300 mm <sup>2</sup> | AEIC 400 – 600 kcmil     | IEC 185 – 300 mm <sup>2</sup> | IEC 120 – 185 mm <sup>2</sup><br>AEIC 250 – 450 kcmil | –                             | –                        | –                        |
| IEC 300 – 325 mm <sup>2</sup>                                  | AEIC 750 – 1000 kcmil    | –                             | IEC 200 – 325 mm <sup>2</sup><br>AEIC 500 – 750 kcmil | –                             | –                        | –                        |
| IEC 300 – 325 mm <sup>2</sup>                                  | AEIC 750 – 1000 kcmil    | –                             | IEC 200 – 325 mm <sup>2</sup><br>AEIC 500 – 750 kcmil | IEC 240 – 300 mm <sup>2</sup> | –                        | –                        |
| IEC 60 – 100 mm <sup>2</sup><br>JIS 95 – 150 mm <sup>2</sup>   | AEIC 3/0 AWG – 350 kcmil | IEC 70 – 150 mm <sup>2</sup>  | IEC 35 – 95 mm <sup>2</sup><br>AEIC 1/0 – 4/0 AWG     | IEC 25 – 70 mm <sup>2</sup>   | AEIC 2 – 1/0 AWG         | –                        |
| IEC 150 – 250 mm <sup>2</sup><br>JIS 185 – 300 mm <sup>2</sup> | AEIC 400 – 600 kcmil     | IEC 185 – 300 mm <sup>2</sup> | IEC 120 – 185 mm <sup>2</sup><br>AEIC 250 – 450 kcmil | IEC 95 – 185 mm <sup>2</sup>  | AEIC 2/0 AWG – 250 kcmil | AEIC 1/0 – 3/0 AWG       |
| IEC 300 – 325 mm <sup>2</sup>                                  | AEIC 750 – 1000 kcmil    | –                             | IEC 200 – 325 mm <sup>2</sup><br>AEIC 500 – 750 kcmil | IEC 240 – 300 mm <sup>2</sup> | AEIC 300 – 500 kcmil     | AEIC 4/0 AWG – 500 kcmil |

# OUTDOOR

## Three Core Termination Kits

3M™ Cold Shrink QT-III Outdoor Termination Kit 7600-S-3G Series  
for 5-35 kV Tape Shield (Armored or Unarmored), Wire Shield\*, UniShield®\* Cables

| Kit Number                                                                                                                    | Skirts | BIL    | Max. Installed Length<br>Inches (mm) | Insulation O.D. Range<br>Inches (mm) | Max. Cable O.D.<br>Inches (mm) |
|-------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------------------------------------|--------------------------------------|--------------------------------|
| <b>Outdoor installation environment. For cables with ground wires.</b> (Each kit makes one Three Core conductor termination.) |        |        |                                      |                                      |                                |
| 7620-S-2-3G                                                                                                                   | 2      | 95 kV  | 10.5 (267)                           | 0.33 – 0.50 (8,40 – 12,7)            | 2.20 (55,9)                    |
| 7621-S-2-3G                                                                                                                   | 2      | 95 kV  | 10.5 (267)                           | 0.50 – 0.70 (12,7 – 17,8)            | 2.80 (71,1)                    |
| 7622-S-2-3G                                                                                                                   | 2      | 110 kV | 9.8 (249)                            | 0.70 – 0.92 (17,8 – 23,4)            | 3.30 (83,8)                    |
| 7691-S-4-3G                                                                                                                   | 4      | 150 kV | 12.25 (311)                          | 0.50 – 0.70 (12,7 – 17,8)            | 2.80 (71,1)                    |
| 7692-S-4-3G                                                                                                                   | 4      | 150 kV | 12.25 (311)                          | 0.70 – 0.92 (17,8 – 23,4)            | 3.30 (83,8)                    |
| 7693-S-4-3G                                                                                                                   | 4      | 150 kV | 12.25 (311)                          | 0.92 – 1.18 (23,4 – 30,0)            | 3.90 (99,1)                    |
| 7695-S-4-3G                                                                                                                   | 4      | 150 kV | 12.25 (311)                          | 1.18 – 1.52 (30,0 – 38,6)            | 4.50 (114,3)                   |
| 7684-S-8-3G                                                                                                                   | 8      | 200 kV | 20.5 (521)                           | 0.92 – 1.18 (23,4 – 30,0)            | 3.90 (99,1)                    |
| 7685-S-8-3G                                                                                                                   | 8      | 200 kV | 20.5 (521)                           | 1.18 – 1.52 (30,0 – 38,6)            | 4.50 (114,3)                   |
| 7686-S-8-3G                                                                                                                   | 8      | 200 kV | 21.5 (546)                           | 1.53 – 1.81 (38,8 – 46,0)            | 5.40 (137,2)                   |

3M™ Cold Shrink QT-III Outdoor Termination Kit 7600-S-3W Series  
for 5-35 kV Tape Shield (Armored or Unarmored), Wire Shield\*, UniShield®\* Cables

| Kit Number                                                                                                                       | Skirts | BIL    | Max. Installed Length<br>Inches (mm) | Cable Insulation<br>O.D. Range<br>Inches (mm) | 3.3 kV                                                         | 5.0 kV                   | 6.6 kV                                                         |
|----------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------------------------------------|-----------------------------------------------|----------------------------------------------------------------|--------------------------|----------------------------------------------------------------|
| <b>Outdoor installation environment. For cables without ground wires.</b> (Each kit makes one Three Core conductor termination.) |        |        |                                      |                                               |                                                                |                          |                                                                |
| 7620-S-2-3W                                                                                                                      | 2      | 95 kV  | 10.5 (267)                           | 0.33 – 0.50 (8,40 – 12,7)                     | IEC 16 – 35 mm <sup>2</sup><br>JIS 8 – 22 mm <sup>2</sup>      | AEIC 8 – 2 AWG           | IEC 16 – 25 mm <sup>2</sup>                                    |
| 7621-S-2-3W                                                                                                                      | 2      | 95 kV  | 10.5 (267)                           | 0.50 – 0.70 (12,7 – 17,8)                     | IEC 50 – 95 mm <sup>2</sup><br>JIS 38 – 60 mm <sup>2</sup>     | AEIC 1 – 3/0 AWG         | IEC 35 – 70 mm <sup>2</sup>                                    |
| 7622-S-2-3W                                                                                                                      | 2      | 110 kV | 9.8 (249)                            | 0.70 – 0.92 (17,8 – 23,4)                     | IEC 120 – 185 mm <sup>2</sup><br>JIS 100 – 150 mm <sup>2</sup> | AEIC 4/0 AWG – 400 kcmil | IEC 95 – 150 mm <sup>2</sup><br>JIS 60 – 100 mm <sup>2</sup>   |
| 7691-S-4-3W                                                                                                                      | 4      | 150 kV | 12.25 (311)                          | 0.50 – 0.70 (12,7 – 17,8)                     | IEC 50 – 95 mm <sup>2</sup><br>JIS 38 – 60 mm <sup>2</sup>     | AEIC 1 – 3/0 AWG         | IEC 35 – 70 mm <sup>2</sup>                                    |
| 7692-S-4-3W                                                                                                                      | 4      | 150 kV | 12.25 (311)                          | 0.70 – 0.92 (17,8 – 23,4)                     | IEC 120 – 185 mm <sup>2</sup><br>JIS 100 – 150 mm <sup>2</sup> | AEIC 4/0 AWG – 400 kcmil | IEC 95 – 150 mm <sup>2</sup><br>JIS 60 – 100 mm <sup>2</sup>   |
| 7693-S-4-3W                                                                                                                      | 4      | 150 kV | 12.25 (311)                          | 0.92 – 1.18 (23,4 – 30,0)                     | IEC 240 – 300 mm <sup>2</sup><br>JIS 200 – 250 mm <sup>2</sup> | AEIC 500 – 750 kcmil     | IEC 185 – 300 mm <sup>2</sup><br>JIS 150 – 250 mm <sup>2</sup> |
| 7695-S-4-3W                                                                                                                      | 4      | 150 kV | 12.25 (311)                          | 1.18 – 1.52 (30,0 – 38,6)                     | JIS 300 – 325 mm <sup>2</sup>                                  | AEIC 800 – 1000 kcmil    | JIS 300 – 325 mm <sup>2</sup>                                  |
| 7685-S-8-3W                                                                                                                      | 8      | 200 kV | 21.5 (546)                           | 1.18 – 1.52 (30,0 – 38,6)                     | JIS 300 – 325 mm <sup>2</sup>                                  | AEIC 800 – 1000 kcmil    | JIS 300 – 325 mm <sup>2</sup>                                  |

\*Note: For Wire or UniShield® shielding, please contact 3M for technical assistance.

| Conductor Size Range 100% (133%) Insulation Level |                        |                      |                      |                      |
|---------------------------------------------------|------------------------|----------------------|----------------------|----------------------|
| 5 kV                                              | 8 kV                   | 15 kV                | 25/28 kV             | 35 kV                |
| 8-2<br>(6-4)                                      | 6-4<br>(6-4)           | -                    | -                    | -                    |
| 1-3/0<br>(2-2/0)                                  | 2-2/0<br>(2-2/0)       | 2-1                  | -                    | -                    |
| 4/0-350<br>(3/0-350)                              | 3/0-350<br>(3/0-350)   | 1/0-4/0<br>(2-3/0)   | -                    | -                    |
| 1-3/0<br>(2-2/0)                                  | 2-2/0<br>(2-2/0)       | 2-1                  | -                    | -                    |
| 4/0-350<br>(3/0-350)                              | 3/0-350<br>(3/0-350)   | 1/0-4/0<br>(2-3/0)   | 1-1/0                | -                    |
| 400-500<br>(400-500)                              | 400-500<br>(400-500)   | 250-350<br>(4/0-350) | 2/0-250<br>(1-4/0)   | -                    |
| 700-1000<br>(700-1000)                            | 700-1000<br>(700-1000) | 500-750<br>(500-750) | 350-500<br>(250-500) | -                    |
| -                                                 | -                      | 250-350<br>(4/0-350) | 2/0-250<br>(1-4/0)   | 1/0-3/0              |
| -                                                 | -                      | 500-750<br>(500-750) | 350-500<br>(250-500) | 4/0-500<br>(1/0-350) |
| -                                                 | -                      | (1000)               | 750<br>(350-750)     | 500-750<br>(350-750) |

| Conductor Size Range 100% Insulation Level |                             |                                                   |                             |                        |                            |                        |
|--------------------------------------------|-----------------------------|---------------------------------------------------|-----------------------------|------------------------|----------------------------|------------------------|
| 8 kV                                       | 10 kV                       | 15 kV                                             | 20 kV                       | 25/28 kV               | 30 kV                      | 35 kV                  |
| AEIC 6-4 AWG                               | -                           | -                                                 | -                           | -                      | -                          | -                      |
| AEIC 2-2/0 AWG                             | IEC 10-50 mm <sup>2</sup>   | IEC 16-25 mm <sup>2</sup>                         | -                           | -                      | -                          | -                      |
| AEIC 3/0 AWG-350 kcmil                     | IEC 70-150 mm <sup>2</sup>  | IEC 35-95 mm <sup>2</sup><br>AEIC 1/0-4/0 AWG     | -                           | -                      | -                          | -                      |
| AEIC 2-2/0 AWG                             | IEC 10-50 mm <sup>2</sup>   | IEC 16-25 mm <sup>2</sup>                         | -                           | -                      | -                          | -                      |
| AEIC 3/0 AWG-350 kcmil                     | IEC 70-150 mm <sup>2</sup>  | IEC 35-95 mm <sup>2</sup><br>AEIC 1/0-4/0 AWG     | IEC 25-70 mm <sup>2</sup>   | AEIC 2-1/0 AWG         | -                          | -                      |
| AEIC 400-600 kcmil                         | IEC 185-300 mm <sup>2</sup> | IEC 120-185 mm <sup>2</sup><br>AEIC 250-450 kcmil | IEC 95-185 mm <sup>2</sup>  | AEIC 2/0 AWG-250 kcmil | -                          | -                      |
| AEIC 750-1000 kcmil                        | -                           | IEC 200-325 mm <sup>2</sup><br>AEIC 500-750 kcmil | IEC 240-300 mm <sup>2</sup> | AEIC 300-500 kcmil     | -                          | -                      |
| AEIC 750-1000 kcmil                        | -                           | IEC 200-325 mm <sup>2</sup><br>AEIC 500-750 kcmil | IEC 240-300 mm <sup>2</sup> | AEIC 300-500 kcmil     | IEC 95-240 mm <sup>2</sup> | AEIC 4/0 AWG-500 kcmil |



# INVERTED

## Three Core Termination Kits

3M™ Cold Shrink QT-III Inverted Termination Kit 7600-S-INV-3-RJS Series  
for 5-25/28 kV Tape Shield (Armored or Unarmored), Wire Shield\*, UniShield®\* Cables

| Kit Number                                                                                      | BIL    | Max. Installed Length | Cable Insulation O.D. Range<br>Inches (mm) | 3.3 kV                                                         | 5.0 kV                |
|-------------------------------------------------------------------------------------------------|--------|-----------------------|--------------------------------------------|----------------------------------------------------------------|-----------------------|
| For cables with or without ground wires. (Each kit makes one Three Core conductor termination.) |        |                       |                                            |                                                                |                       |
| 7693-S-4-INV-3-RJS                                                                              | 200 kV | 16.0 (406)            | 0.92 – 1.18 (23,4 – 30,0)                  | IEC 240 – 300 mm <sup>2</sup><br>JIS 200 – 250 mm <sup>2</sup> | AEIC 500 – 750 kcmil  |
| 7695-S-4-INV-3-RJS                                                                              | 200 kV | 16.0 (406)            | 1.18 – 1.52 (30,0 – 38,6)                  | JIS 300 – 325 mm <sup>2</sup>                                  | AEIC 800 – 1000 kcmil |

3M™ Cold Shrink QT-III Inverted Termination Kit 7600-S-4-INV-3G Series  
for 5-25 kV Tape Shield (Armored or Unarmored), Wire Shield\*, UniShield®\* Cables

| Kit Number      | BIL    | Max. Installed Length<br>Inches (mm) | Cable Insulation O.D. Range<br>Inches (mm) | Cable O.D.<br>Inches (mm) |
|-----------------|--------|--------------------------------------|--------------------------------------------|---------------------------|
| 7693-S-4-INV-3G | 200 kV | 16.0 (406)                           | 0.92 – 1.18 (23,4 – 30,0)                  | 3.90 (99,1)               |
| 7695-S-4-INV-3G | 200 kV | 16.0 (406)                           | 1.18 – 1.52 (30,0 – 38,6)                  | 4.50 (114,3)              |

3M™ Cold Shrink QT-III Inverted Termination Kit 7600-S-INV-3W Series - 4 Skirt,  
for 5-25/28 kV Tape Shield (Armored or Unarmored), Wire Shield\*, UniShield®\* Cables

| Kit Number                                                                              | BIL    | Max. Installed Length | Cable Insulation O.D. Range<br>Inches (mm) | 3.3 kV                                                         | 5.0 kV                |
|-----------------------------------------------------------------------------------------|--------|-----------------------|--------------------------------------------|----------------------------------------------------------------|-----------------------|
| For cables without ground wires. (Each kit makes one Three Core conductor termination.) |        |                       |                                            |                                                                |                       |
| 7693-S-4-INV-3W                                                                         | 200 kV | 16.0 (406)            | 0.92 – 1.18 (23,4 – 30,0)                  | IEC 240 – 300 mm <sup>2</sup><br>JIS 200 – 250 mm <sup>2</sup> | AEIC 500 – 750 kcmil  |
| 7695-S-4-INV-3W                                                                         | 200 kV | 16.0 (406)            | 1.18 – 1.52 (30,0 – 38,6)                  | JIS 300 – 325 mm <sup>2</sup>                                  | AEIC 800 – 1000 kcmil |

\*Note: For Wire or UniShield® shielding, please contact 3M for technical assistance.



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

| Conductor Size Range 100% Insulation Level                     |                       |                               |                                                       |                              |                          |
|----------------------------------------------------------------|-----------------------|-------------------------------|-------------------------------------------------------|------------------------------|--------------------------|
| 6.6 kV                                                         | 8 kV                  | 10 kV                         | 15 kV                                                 | 20 kV                        | 25/28 kV                 |
| JIS 150 – 250 mm <sup>2</sup><br>IEC 185 – 300 mm <sup>2</sup> | AEIC 400 – 600 kcmil  | IEC 185 – 300 mm <sup>2</sup> | IEC 120 – 185 mm <sup>2</sup><br>AEIC 250 – 450 kcmil | IEC 95 – 185 mm <sup>2</sup> | AEIC 2/0 AWG – 250 kcmil |
| JIS 300 – 325 mm <sup>2</sup>                                  | AEIC 750 – 1000 kcmil | –                             | IEC 200 – 325 mm <sup>2</sup><br>AEIC 500 – 750 kcmil | IEC 240 – 300mm <sup>2</sup> | AEIC 300 – 500 kcmil     |

| Conductor Size Range 100% (133%) Insulation Level |                                        |                                          |                                      |
|---------------------------------------------------|----------------------------------------|------------------------------------------|--------------------------------------|
| 5 kV                                              | 8 kV                                   | 15 kV                                    | 25/28 kV                             |
| 400 – 500 kcmil<br>(400 – 500 kcmil)              | 400 – 500 kcmil<br>(400 – 500 kcmil)   | 250 – 350 kcmil<br>(4/0 AWG – 350 kcmil) | 2/0 AWG – 250 kcmil<br>(1 – 4/0 AWG) |
| 700 – 1000 kcmil<br>(700 – 1000 kcmil)            | 700 – 1000 kcmil<br>(700 – 1000 kcmil) | 500 – 750 kcmil<br>(500 – 750 kcmil)     | 350 – 500 kcmil<br>(250 – 500 kcmil) |

| Conductor Size Range 100% Insulation Level                     |                       |                               |                                                       |                               |                          |
|----------------------------------------------------------------|-----------------------|-------------------------------|-------------------------------------------------------|-------------------------------|--------------------------|
| 6.6 kV                                                         | 8 kV                  | 10 kV                         | 15 kV                                                 | 20 kV                         | 25/28 kV                 |
| JIS 150 – 250 mm <sup>2</sup><br>IEC 185 – 300 mm <sup>2</sup> | AEIC 400 – 600 kcmil  | IEC 185 – 300 mm <sup>2</sup> | IEC 120 – 185 mm <sup>2</sup><br>AEIC 250 – 450 kcmil | IEC 95 – 185 mm <sup>2</sup>  | AEIC 2/0 AWG – 250 kcmil |
| IEC 300 – 325 mm <sup>2</sup>                                  | AEIC 750 – 1000 kcmil | –                             | IEC 200 – 325 mm <sup>2</sup><br>AEIC 500 – 750 kcmil | IEC 240 – 300 mm <sup>2</sup> | AEIC 300 – 500 kcmil     |



Watch our installation video for  
3M™ Mechanical Shearbolt Lugs  
QL2 Series



[www.youtube.com/3melectrical](http://www.youtube.com/3melectrical)



[www.3m.com/electrical](http://www.3m.com/electrical)

3M is a trademark of 3M Company. UniShield is a registered trademark of General Cable Technologies Corporation.

3M products shown with a flag in this brochure are manufactured in the USA as of October, 2013. 3M products offered on government contracts that require country of origin representation must be certified by 3M Trade Compliance. Contact customer service at 800-245-3573 to request a certificate.

The information in this brochure is accurate, to 3M's knowledge and belief, which may be based on information provided by third party suppliers to 3M.

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

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



**Electrical Markets Division**

6801 River Place Blvd.

Austin, TX 78726-9000

800.245.3573

Fax 800.245.0329

<http://www.3m.com/electrical>

Please recycle. Printed in USA.

© 3M 2015. All rights reserved.

HB 10691 80-6016-0727-0