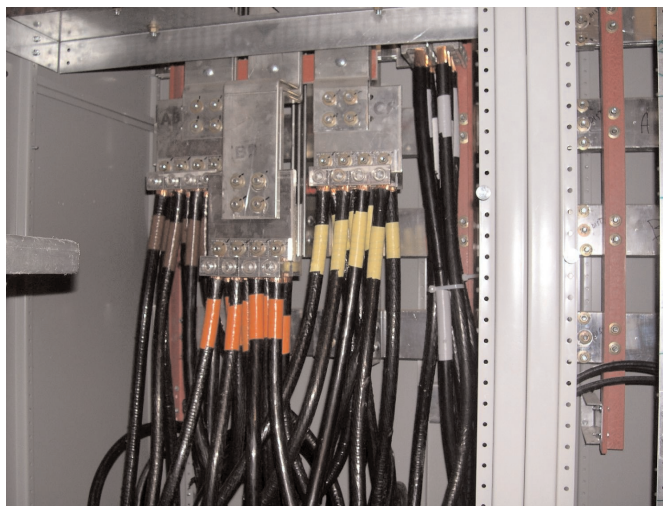


# Medium Voltage Terminations, 5 kV–46 kV

Over 30 years ago, 3M pioneered cold shrink technology. Since then, field use and laboratory analysis have repeatedly proven its merits and reliability. Through constant innovation, we have refined cold shrink products making them better than ever. They're easier to apply and built to withstand some of the most punishing environmental conditions. Enhanced performance at a lower installed cost continues to make 3M the preferred choice for cold shrink solutions.



3M™ Cold Shrink QT-II and QT-III Terminations are designed using 3M developed track-resistant silicone rubber and Hi-K stress control material in conjunction with 3M's unique cold shrink delivery system.

The QT-II and the QT-III terminations are supplied prestretched on a removable core. Removal of the core (unwind) after positioning the termination allows the product to shrink into position, providing a tight seal. 3M cold shrink terminations offer easy installation and reliable performance when terminating indoor and outdoor medium voltage cable.

QT-II and QT-III cold shrink silicone rubber is specifically formulated as a high track-resistant material with hydrophobicity (water repelling action) to virtually ensure a long life expectancy.

These cold shrink terminations are lightweight for either free-hanging or bracket mounting arrangements. 3M offers you two options for choosing a cold shrink termination. The QT-III termination utilizes the latest technology with built-in Hi-K stress controlling mastic and environmental sealing mastic resulting in a much more user-friendly application. The QT-II termination offers some of the same advantages as the QT-III termination but without a few of the time-saving features that the QT-III termination possesses.

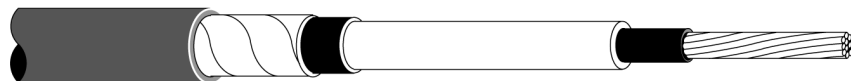
All terminations meet or exceed IEEE 48 requirements.

## Technology Features

| Technology                            | Installation Time<br>(1-5, 1=Fastest) | Installation Ease<br>(1-5, 1=Easiest) | Application Range<br>(1-5, 1=Greatest) | Top Seal Mastic<br>and Semicon Filling<br>Mastic Pre-loaded<br>Inside Termination | Indoor/Outdoor |
|---------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------|----------------|
| 3M™ Cold Shrink QT-III<br>Termination | 1                                     | 1                                     | 1                                      | Yes                                                                               | Both           |
| 3M™ Cold Shrink QT-II<br>Termination  | 2                                     | 2                                     | 1                                      | No                                                                                | Both           |
| Tape                                  | 3                                     | 3                                     | 2                                      | No                                                                                | Both           |

| Section                                                                            | Page    |
|------------------------------------------------------------------------------------|---------|
| JCN and CN Cable, 5–35 kV .....                                                    | 248-258 |
| PILC Cable, 15–25/28 kV .....                                                      | 260-261 |
| Single Core Tape Shield, Wire Shield & UniShield® Cable, 5–46 kV ...               | 263-271 |
| Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV....                | 273-287 |
| Single Core Tape Shield, Wire-Over-Tape Shield & LC Shield Cable,<br>5–35 kV ..... | 289-293 |
| Tape Terminations, 5–25/28 kV .....                                                | 295     |
| Non-Shielded Cable.....                                                            | 297     |

# Cable Types for Terminating



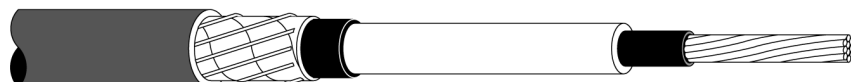
Tape Shielded Cable



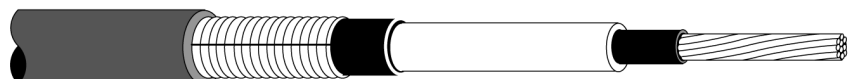
Wire Shielded Cable



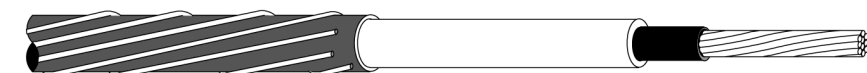
UniShield® Cable



Wire Over Tape Shielded Cable



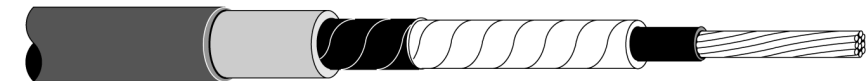
LC Shielded Cable



Concentric Neutral (CN) Cable



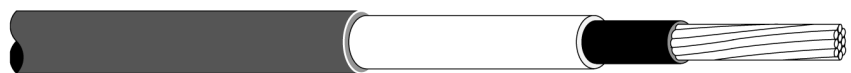
Jacketed Concentric Neutral (JCN) Cable



Paper Insulated Lead Covered (PILC) Cable



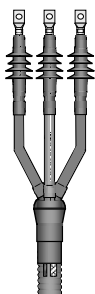
Non-Shielded (Dry) Cable



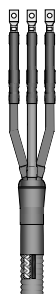
Non-Shielded (Wet or Dry) Cable

## Termination Type Selection Guide for 3M™ Three Conductor Cable 7600 Series

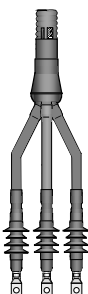
| Kit Series       | Insulator Configuration | Installation Environment                | Orientation | For Cable Type(s)<br>(With or Without Ground Wires) |
|------------------|-------------------------|-----------------------------------------|-------------|-----------------------------------------------------|
| 7600-S-3G        | Skirted                 | Outdoor                                 | Normal      | With ground wires                                   |
| 7600-T-3G        | Tubular                 | Indoor                                  | Normal      | With ground wires                                   |
| 7690-S-INV-3G    | Skirted                 | Outdoor                                 | Inverted    | With ground wires                                   |
| 7600-S-3-RJS     | Skirted                 | Indoor-Cabinet Mount (No Breakout Boot) | Normal      | With or without ground wires                        |
| 7600-T-3-RJS     | Tubular                 | Indoor-Cabinet Mount (No Breakout Boot) | Normal      | With or without ground wires                        |
| 7690-S-INV-3-RJS | Skirted                 | Indoor-Cabinet Mount (No Breakout Boot) | Inverted    | With or without ground wires                        |
| 7600-S-3W        | Skirted                 | Outdoor                                 | Normal      | Without ground wires                                |
| 7600-T-3W        | Tubular                 | Indoor                                  | Normal      | Without ground wires                                |
| 7690-S-INV-3W    | Skirted                 | Outdoor                                 | Inverted    | Without ground wires                                |



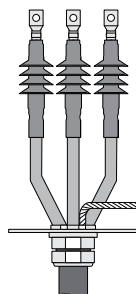
7600-S-3G



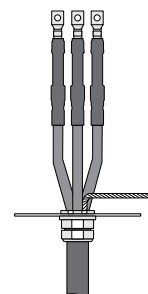
7600-T-3G



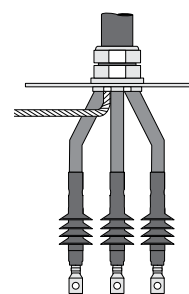
7690-S-INV-3G



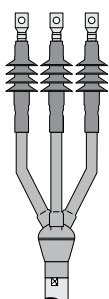
7600-S-3-RJS



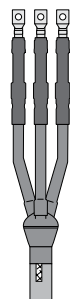
7600-T-3-RJS



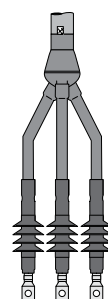
7690-S-INV-3-RJS



7600-S-3W



7600-T-3W



7690-S-INV-3W

## Termination Kit Selection Guide

| Products                                                                                                                        | Technology | Shielding Type         |                       |      |      |    |     |             | Core | Indoor/<br>Outdoor |                           |                       |             |             |
|---------------------------------------------------------------------------------------------------------------------------------|------------|------------------------|-----------------------|------|------|----|-----|-------------|------|--------------------|---------------------------|-----------------------|-------------|-------------|
|                                                                                                                                 |            | 3M™ Cold Shrink QT-III | 3M™ Cold Shrink QT-II | Tape | PILC | CN | JCN | Wire Shield |      |                    | Longitudinally Corrugated | Wire-Over-Tape Shield | Nonshielded | Single Core |
| 3M™ Cold Shrink QT-III Silicone Rubber Termination Kit 7640-T and 7650-T Series for 5-35 kV                                     | X          |                        |                       |      |      |    | X   |             |      |                    |                           |                       |             | X           |
| 3M™ Cold Shrink QT-III Silicone Rubber Termination Kit 7640-S, 7650-S, & 7660-S Series for 5-35 kV                              | X          |                        |                       |      |      |    | X   |             |      |                    |                           |                       |             | X           |
| 3M™ Cold Shrink QT-III Silicone Rubber Termination Kit with Jumper Wire Top Insulator* 7640-S & 7650-S Series for 5-25/28 kV    | X          |                        |                       |      |      |    | X   |             |      |                    |                           |                       |             | X           |
| 3M™ Cold Shrink QT-III Inverted Termination Kits 7640-S-INV & 7650-S-INV Series for 5-35 kV (One Termination per Kit)           | X          |                        |                       |      |      |    | X   |             |      |                    |                           |                       |             | X           |
| 3M™ Cold Shrink QT-III Silicone Rubber Termination Kit 7620-T & 7690-T Series for 5-35 kV                                       | X          |                        |                       |      |      |    |     | X           | X    |                    |                           | X                     |             |             |
| 3M™ Cold Shrink QT-III Silicone Rubber Termination Kit 7620-S, 7680-S & 7690-S Series for 5-35 kV                               | X          |                        |                       |      |      |    |     | X           | X    |                    |                           | X                     |             | X           |
| 3M™ Cold Shrink QT-III Silicone Rubber Inverted Termination Kit 7620-S & 7690-S Series for 5-35 kV                              | X          |                        |                       |      |      |    |     | X           | X    |                    |                           | X                     |             | X           |
| 3M™ Cold Shrink QT-III Termination Kit 7600-T-3-RJS Series for 5-35 kV                                                          | X          |                        |                       |      |      |    |     | X           | X    |                    |                           | X                     |             |             |
| 3M™ Cold Shrink QT-III Termination Kit 7600-T-3G Series for 5-35 kV                                                             | X          |                        |                       |      |      |    |     | X           | X    |                    |                           | X                     |             |             |
| 3M™ Cold Shrink QT-III Termination Kit 7600-T-3W Series for 5-35 kV                                                             | X          |                        |                       |      |      |    |     | X           | X    |                    |                           | X                     |             |             |
| 3M™ Cold Shrink QT-III Silicone Rubber Termination Kit 7600-S-3G Series for 5-35 kV                                             | X          |                        |                       |      |      |    |     | X           | X    |                    |                           |                       |             | X           |
| 3M™ Cold Shrink QT-III Silicone Rubber Termination Kit 7600-S-3RJS Series for 5-35 kV                                           | X          |                        |                       |      |      |    |     | X           | X    |                    |                           |                       |             | X           |
| 3M™ Cold Shrink QT-III Silicone Rubber Termination Kit 7600-S-3W Series for 5-35 kV                                             | X          |                        |                       |      |      |    |     | X           | X    |                    |                           |                       |             | X           |
| 3M™ Cold Shrink QT-III Silicone Rubber Inverted Termination Kit 7600-S-4-INV-3G Series for 5-25 kV                              | X          |                        |                       |      |      |    |     | X           | X    |                    |                           |                       |             | X           |
| 3M™ Cold Shrink QT-III Silicone Rubber Inverted Termination Kit 7600-S-INV-3RJS Series for 5-25/28 kV                           | X          |                        |                       |      |      |    |     | X           | X    |                    |                           |                       |             | X           |
| 3M™ Cold Shrink QT-III Silicone Rubber Inverted Termination Kit 7600-S-INV-3W Series - 4 Skirt, for 5-25/28 kV                  | X          |                        |                       |      |      |    |     | X           | X    |                    |                           |                       |             | X           |
| 3M™ Cold Shrink QT-III Silicone Rubber Termination 7640-T-HSG and 7650-T-HSG Series for 5-35 kV                                 | X          |                        |                       |      |      |    |     | X           | X    |                    |                           |                       | X           |             |
| 3M™ Cold Shrink QT-III High Fault Current Termination Kit 7650-S-HSG & 7660-S-HSG Series for 5-35 kV                            | X          |                        |                       |      |      |    |     | X           | X    |                    |                           |                       |             | X           |
| 3M™ Cold Shrink QT-III High Fault Cable Kits with High Ampacity Ground Connections 7650-S-HSG and 7660-S-HSG Series for 5-35 kV | X          |                        |                       |      |      |    |     | X           | X    |                    |                           | X                     |             | X           |

## Termination Kit Selection Guide

| Products                                                                     |  | Technology |  | Shielding Type |  |  |  |  |  |  | Core | Indoor/<br>Outdoor |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------|--|------------|--|----------------|--|--|--|--|--|--|------|--------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                                                                              |  |            |  |                |  |  |  |  |  |  |      |                    |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3M™ Cold Shrink QT-II Silicone Rubber Termination Kits 5670 Series for 15 kV |  | X          |  |                |  |  |  |  |  |  |      |                    | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

# 3M™ Medium Voltage Terminations for JCN and CN Cable, 5 kV – 35 kV

| Section                                                                                                          | Page    |
|------------------------------------------------------------------------------------------------------------------|---------|
| JCN and CN Cable, 5–35 kV.....                                                                                   | 248-258 |
| 3M™ Cold Shrink QT-III Terminations.....                                                                         | 248-251 |
| Indoor Kits.....                                                                                                 | 248     |
| 3M™ Cold Shrink QT-III Termination Kit 7640-T & 7650-T Series for 5-35 kV.....                                   | 248     |
| Outdoor Skirted Kits.....                                                                                        | 249-251 |
| 3M™ Cold Shrink QT-III Termination Kit 7640-S, 7650-S, & 7660-S Series for 5-35 kV.....                          | 249     |
| 3M™ Cold Shrink QT-III Termination Kit with Jumper Wire Top Insulator 7640-S & 7650-S Series for 5-25/28 kV..... | 250     |
| 3M™ Cold Shrink QT-III Inverted Termination Kits 7640-S-INV & 7650-S-INV Series for 5-35 kV.....                 | 251     |
| 3M™ Cold Shrink QT-II Terminations.....                                                                          | 252-258 |
| Indoor.....                                                                                                      | 252     |
| 3M™ Cold Shrink QT-II Termination Kits 5670 Series for 15 kV.....                                                | 252     |
| Outdoor Skirted.....                                                                                             | 253-255 |
| 3M™ Cold Shrink QT-II Termination Kit 5640 & 5650 Series - 4-Skirt, for 15 kV.....                               | 253     |
| 3M™ Cold Shrink QT-II Termination Kit 5640 & 5650 Series - 6-Skirt, for 15-25/28 kV.....                         | 254     |
| 3M™ Cold Shrink QT-II Termination Kit 5640 & 5650 Series - 8-Skirt, for 15-35 kV.....                            | 255     |
| Outdoor Skirted Non-Jacketed Concentric Neutral (CN) Kits.....                                                   | 256-258 |
| 3M™ Cold Shrink QT-II Termination Kit 5600 & 5680 Series – 4 Skirt, for 5-15 kV.....                             | 256     |
| 3M™ Cold Shrink QT-II Termination Kit 5600 & 5680 Series – 6 Skirt, for 5-35 kV.....                             | 257     |
| 3M™ Cold Shrink QT-II Termination Kit 5600 & 5680 Series – 8 Skirt, for 5-35 kV.....                             | 258     |

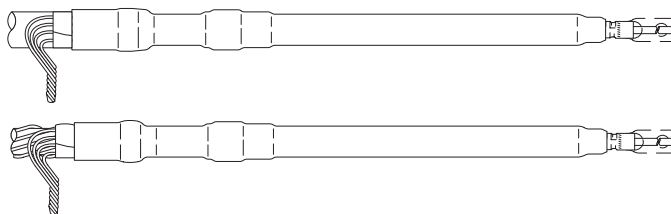
## JCN and CN Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Indoor Kits

## 3M™ Cold Shrink QT-III Termination Kit 7640-T &amp; 7650-T Series for 5-35 kV

3M™ Cold Shrink QT-III Silicone Rubber Termination Kit 7640-T and 7650-T Series contain one-piece, non-skirted, silicone rubber terminations, qualified as IEEE Standard 48 Class 1 for indoor and weather-protected applications. The termination assemblies consist of a tubular insulator, high-dielectric constant (Hi-K) stress control tube, conformable Hi-K stress controlling compound and built-in environmental top seal. The insulator is made of a dark gray silicone rubber with excellent tracking resistance and hydrophobic properties. The complete assembly is pre-stretched and loaded onto a removable core which can be recycled. The kits are designed for terminating jacketed concentric neutral (JCN) and concentric neutral (CN) power cables rated 5–35 kV.

Each kit contains sufficient quantities of material to make one single-phase termination. Lugs need to be ordered separately.

|                                    |                                                               |
|------------------------------------|---------------------------------------------------------------|
| Number of Conductors               | Single Conductor                                              |
| Shielding Type                     | Jacketed Concentric Neutral (JCN),<br>Concentric Neutral (CN) |
| Indoor/Outdoor                     | Indoor                                                        |
| Breakout Boot                      | No                                                            |
| Insulation Rejacketing             | No                                                            |
| No. Skirts                         | 0                                                             |
| Voltage                            | 5 kV, 8 kV, 15 kV, 25/28 kV 35 kV                             |
| Lug/Stem Connector Included in Kit | No                                                            |
| Packaging                          | 1 kit per case (one termination per kit)                      |

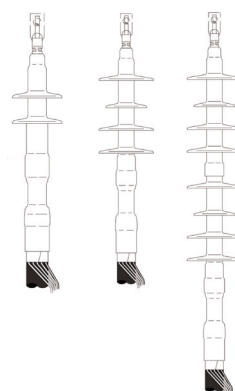


| Order No.  | UPC          | BIL    | Max. Installed Length | Insulation O.D. Range      | Conductor Size 5 kV | Conductor Size 8 kV | Conductor Size 15 kV                         | Conductor Size 25/28 kV                   | Conductor Size 35 kV                        |
|------------|--------------|--------|-----------------------|----------------------------|---------------------|---------------------|----------------------------------------------|-------------------------------------------|---------------------------------------------|
| 7642-T-110 | 054007-41764 | 110 kV | 12.0" (305 mm)        | 0.64"-1.08" (16,3-27,4 mm) | 4/0 AWG-400 kcmil   | 3/0 AWG-300 kcmil   | 2-4/0 AWG (35-120 mm <sup>2</sup> )          | -                                         | -                                           |
| 7644-T-110 | 054007-41766 | 110 kV | 12.0" (305 mm)        | 0.83"-1.53" (21,1-38,9 mm) | 500-750 kcmil       | 350-700 kcmil       | 4/0 AWG-500 kcmil (120-240 mm <sup>2</sup> ) | -                                         | -                                           |
| 7645-T-110 | 054007-41768 | 110 kV | 12.0" (305 mm)        | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil      | 600-1250 kcmil      | 500-1000 kcmil (240-500 mm <sup>2</sup> )    | -                                         | -                                           |
| 7646-T-110 | 054007-41770 | 110 kV | 12.0" (305 mm)        | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil     | 1500-2000 kcmil     | 1250-2000 kcmil (625-1000 mm <sup>2</sup> )  | -                                         | -                                           |
| 7653-T-150 | 054007-41772 | 150 kV | 16" (406 mm)          | 0.72"-1.29" (18,3-32,8 mm) | 300-500 kcmil       | 250-500 kcmil       | 2/0 AWG-300 kcmil (70-150 mm <sup>2</sup> )  | 2-4/0 AWG (35-120 mm <sup>2</sup> )       | 2-2/0 AWG (35-70 mm <sup>2</sup> )          |
| 7655-T-150 | 054007-41774 | 150 kV | 16" (406 mm)          | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil      | 600-1250 kcmil      | 500-1250 kcmil (240-625 mm <sup>2</sup> )    | 250-800 kcmil (150-400 mm <sup>2</sup> )  | 3/0 AWG-600 kcmil (95-325 mm <sup>2</sup> ) |
| 7656-T-150 | 054007-41776 | 150 kV | 16" (406 mm)          | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil     | 1500-2000 kcmil     | 1250-2000 kcmil (625-1000 mm <sup>2</sup> )  | 900-1750 kcmil (500-800 mm <sup>2</sup> ) | 700-1500 kcmil (400-725 mm <sup>2</sup> )   |

## JCN and CN Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

### 3M™ Cold Shrink QT-III Termination Kit 7640-S, 7650-S, & 7660-S Series for 5-35 kV

3M™ Cold Shrink QT-III Silicone Rubber Termination Kit 7640-S, 7650-S and 7660-S Series contain one-piece, skirted, silicone rubber terminations, qualified as IEEE Standard 48 Class 1 for outdoor weather-exposed applications. The termination assemblies consist of a skirted insulator, high-dielectric constant (Hi-K) stress control tube, conformable Hi-K stress controlling compound and built-in environmental top seal. The insulator is made of a dark gray silicone rubber with excellent tracking resistance and hydrophobic properties. The complete assembly is prestretched and loaded onto a removable core which can be recycled. The kits are designed for terminating jacketed concentric neutral (JCN) and concentric neutral (CN) power cables rated 5–35 kV. Each kit contains sufficient quantities of material to make one single-phase termination. Lugs need to be ordered separately.



|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Number of Conductors   | Single Conductor                                              |
| Shielding Type         | Jacketed Concentric Neutral (JCN),<br>Concentric Neutral (CN) |
| Indoor/Outdoor         | Outdoor                                                       |
| Breakout Boot          | No                                                            |
| Insulation Rejacketing | No                                                            |
| Voltage                | 5 kV, 8 kV, 15 kV, 25/28 kV, 35 kV                            |
| Packaging              | 1 kit per case (one termination per kit)                      |

| Order No. | UPC          | Skirts | BIL    | Max. Installed Length | Insulation O.D. Range      | Cond. Size 5 kV   | Cond. Size 8 kV   | Cond. Size 15 kV                | Cond. Size 25/28 kV            | Cond. Size 35 kV               |
|-----------|--------------|--------|--------|-----------------------|----------------------------|-------------------|-------------------|---------------------------------|--------------------------------|--------------------------------|
| 7642-S-2  | 054007-42011 | 2      | 110 kV | 9.80" (249 mm)        | 0.64"-1.08" (16,3-27,4 mm) | 4/0 AWG-400 kcmil | 3/0 AWG-300 kcmil | 2-4/0 AWG (35-120 mm²)          | -                              | -                              |
| 7652-S-4  | 054007-42178 | 4      | 150 kV | 12.25" (311 mm)       | 0.64"-1.08" (16,3-27,4 mm) | 4/0 AWG-400 kcmil | 3/0 AWG-300 kcmil | 2-4/0 AWG (35-120 mm²)          | 2-1/0 AWG (35-50 mm²)          | -                              |
| 7653-S-4  | 054007-42192 | 4      | 150 kV | 12.25" (311 mm)       | 0.72"-1.29" (18,3-32,8 mm) | 300-500 kcmil     | 250-500 kcmil     | 2/0 AWG-300 kcmil (70-150 mm²)  | 2-4/0 AWG (35-120 mm²)         | -                              |
| 7654-S-4  | 054007-42203 | 4      | 150 kV | 12.25" (311 mm)       | 0.83"-1.53" (21,1-38,9 mm) | 500-750 kcmil     | 350-700 kcmil     | 4/0 AWG-500 kcmil (120-240 mm²) | 2/0 AWG-250 kcmil (70-150 mm²) | -                              |
| 7655-S-4  | 054007-42208 | 4      | 150 kV | 12.25" (311 mm)       | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil    | 600-1250 kcmil    | 500-1000 kcmil (240-500 mm²)    | 250-800 kcmil (150-400 mm²)    | -                              |
| 7656-S-4  | 054007-42210 | 4      | 150 kV | 13.25" (337 mm)       | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil   | 1500-2000 kcmil   | 1250-2000 kcmil (625-1000 mm²)  | 900-1750 kcmil (500-800 mm²)   | -                              |
| 7663-S-8  | 054007-42433 | 8      | 200 kV | 20.50" (521 mm)       | 0.72"-1.29" (18,3-32,8 mm) | 300-500 kcmil     | 250-500 kcmil     | 2/0 AWG-300 kcmil (70-150 mm²)  | 2-4/0 AWG (35-120 mm²)         | 2-2/0 AWG (35-70 mm²)          |
| 7664-S-8  | 054007-42447 | 8      | 200 kV | 20.50" (521 mm)       | 0.83"-1.53" (21,1-38,9 mm) | 500-750 kcmil     | 350-700 kcmil     | 4/0 AWG-500 kcmil (120-240 mm²) | 2/0 AWG-250 kcmil (70-150 mm²) | 2-4/0 AWG (35-120 mm²)         |
| 7665-S-8  | 054007-42461 | 8      | 200 kV | 20.50" (521 mm)       | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil    | 600-1250 kcmil    | 500-1000 kcmil (240-500 mm²)    | 250-800 kcmil (150-400 mm²)    | 3/0 AWG-600 kcmil (95-325 mm²) |
| 7666-S-8  | 054007-42463 | 8      | 200 kV | 21.50" (546 mm)       | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil   | 1500-2000 kcmil   | 1250-2000 kcmil (625-1000 mm²)  | 900-1750 kcmil (500-800 mm²)   | 700-1500 kcmil (400-725 mm²)   |

## JCN and CN Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

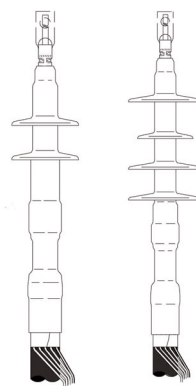
### 3M™ Cold Shrink QT-III Termination Kit with Jumper Wire Top Insulator 7640-S & 7650-S Series for 5-25/28 kV

3M™ Cold Shrink QT-III Silicone Rubber Termination Kit with Jumper Wire Top Insulator\* 7640-S & 7650-S Series offer easy installation and reliable performance when terminating indoor and outdoor medium voltage cable. The unique step-core design combined with the built in Hi-K stress control and environmental sealing compounds means simpler installation on all types of cable. It has UV stability and track and erosion resistance. Plus its Hi-K stress control design delivers excellent BIL performance and lower surface stress resulting in a more compact termination. Through excellent engineering, 3M™ Cold Shrink QT-III Outdoor Terminations deliver maximum performance.

Each kit contains sufficient quantities of material to make one termination. Lugs need to be ordered separately.

\*Top insulator is a cold shrink silicone rubber tube provided on a removable core for easy installation on a jumper wire. Provides additional circuit protection against animal damage (i.e. squirrels) and environmental corrosion.

|                                     |                                                               |
|-------------------------------------|---------------------------------------------------------------|
| Number of Conductors                | Single Conductor                                              |
| Shielding Type                      | Jacketed Concentric Neutral (JCN),<br>Concentric Neutral (CN) |
| Indoor/Outdoor                      | Outdoor                                                       |
| Breakout Boot                       | No                                                            |
| Insulation Rejacketing              | No                                                            |
| Voltage                             | 5 kV, 8 kV, 15 kV, 25/28 kV                                   |
| Lug Included in Kit (Cu Cond. Only) | No (for Al conductor), Yes (for Cu conductor)                 |
| Packaging                           | 1 kit per case (one termination per kit)                      |



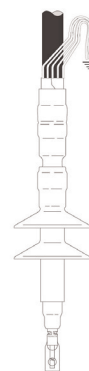
| Order No.   | UPC          | Skirts | BIL    | Max. Installed Length | Insulation O.D. Range      | Jacket O.D.                | Connector & Drop Wire O.D. | Cond. Size 5 kV   | Cond. Size 8 kV   | Cond. Size 15 kV                | Cond. Size 25/28 kV            |
|-------------|--------------|--------|--------|-----------------------|----------------------------|----------------------------|----------------------------|-------------------|-------------------|---------------------------------|--------------------------------|
| 7642-S-2-TI | 051128-54114 | 2      | 110 kV | 15.8" (401 mm)        | 0.64"-1.08" (16,3-27,4 mm) | 0.97"-1.48" (24,6-37,6 mm) | 0.22"-1.31" (5,6-33,3 mm)  | 4/0 AWG-400 kcmil | 3/0 AWG-300 kcmil | 2-4/0 AWG (35-120 mm²)          | -                              |
| 7652-S-4-TI | 054007-43409 | 4      | 150 kV | 12.25" (311 mm)       | 0.64"-1.08" (16,3-27,4 mm) | 0.97"-1.48" (24,6-37,6 mm) | 0.22"-1.31" (5,6-33,3 mm)  | 4/0 AWG-400 kcmil | 3/0 AWG-300 kcmil | 2-4/0 AWG (35-120 mm²)          | 2-1/0 AWG (35-50 mm²)          |
| 7653-S-4-TI | 054007-43410 | 4      | 150 kV | 12.25" (311 mm)       | 0.72"-1.29" (18,3-32,8 mm) | 1.04"-1.60" (26,4-40,6 mm) | 0.22"-1.31" (5,6-33,3 mm)  | 300-500 kcmil     | 250-500 kcmil     | 2/0 AWG-300 kcmil (70-150 mm²)  | 2-4/0 AWG (35-120 mm²)         |
| 7654-S-4-TI | 054007-43411 | 4      | 150 kV | 12.25" (311 mm)       | 0.83"-1.53" (21,1-38,9 mm) | 1.12"-1.87" (28,4-47,5 mm) | 0.24"-1.60" (6,1-40,6 mm)  | 500-750 kcmil     | 350-700 kcmil     | 4/0 AWG-500 kcmil (120-240 mm²) | 2/0 AWG-250 kcmil (70-150 mm²) |
| 7655-S-4-TI | 054007-43412 | 4      | 150 kV | 12.25" (311 mm)       | 1.05"-1.80" (26,7-45,7 mm) | 1.39"-2.40" (35,3-61,0 mm) | 0.32"-2.20" (8,1-55,9 mm)  | 700-1500 kcmil    | 600-1250 kcmil    | 500-1000 kcmil (240-500 mm²)    | 250-800 kcmil (150-400 mm²)    |
| 7656-S-4-TI | 054007-43413 | 4      | 150 kV | 13.25" (337 mm)       | 1.53"-2.32" (38,9-58,9 mm) | 1.84"-2.80" (46,8-71,1 mm) | 0.60"-2.80" (15,2-71,1 mm) | 1750-2000 kcmil   | 1500-2000 kcmil   | 1250-2000 kcmil (630-1000 mm²)  | 900-1750 kcmil (500-800 mm²)   |

## 3M™ Cold Shrink QT-III Inverted Termination Kits 7640-S-INV & 7650-S-INV Series for 5-35 kV

For applications where the cable will be mounted pointing down, the 3M™ Cold Shrink QT-III Inverted Termination Kits 7640-S-INV and 7650-S-INV Series offer easy installation and reliable performance when terminating indoor and outdoor medium voltage cable. The unique step-core design combined with the built in Hi-K stress control and environmental sealing compounds means simpler installation on all types of cable. It has UV stability and track and erosion resistance. Plus its Hi-K stress control design delivers excellent BIL performance and lower surface stress resulting in a more compact termination. Through excellent engineering, 3M™ Cold Shrink QT-III terminations deliver maximum performance. Designed for terminating jacketed concentric neutral (JCN) and concentric neutral (CN) power cables rated 5–35 kV.

Each kit makes one termination. Lugs need to be ordered separately.

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| <b>Number of Conductors</b>   | Single Conductor                                           |
| <b>Shielding Type</b>         | Concentric Neutral (CN), Jacketed Concentric Neutral (JCN) |
| <b>Indoor/Outdoor</b>         | Outdoor                                                    |
| <b>Breakout Boot</b>          | No                                                         |
| <b>Insulation Rejacketing</b> | No                                                         |
| <b>Voltage</b>                | 5 kV, 8 kV, 15 kV, 25/28 kV, 35 kV                         |
| <b>Packaging</b>              | 1 kit per case (one termination per kit)                   |



| Order No.    | UPC          | Skirts | BIL    | Max. Installed Length | Insulation O.D. Range      | Conductor Size 5 kV | Conductor Size 8 kV | Conductor Size 15 kV           | Conductor Size 25/28 kV      | Conductor Size 35 kV           |
|--------------|--------------|--------|--------|-----------------------|----------------------------|---------------------|---------------------|--------------------------------|------------------------------|--------------------------------|
| 7642-S-INV-2 | 054007-04622 | 2      | 110 kV | 12.0" (305 mm)        | 0.64"-1.08" (16,3-27,4 mm) | 4/0 AWG-400 kcmil   | 3/0 AWG-300 kcmil   | 2-4/0 AWG (35-120 mm²)         | -                            | -                              |
| 7653-S-INV-4 | 054007-04625 | 4      | 200 kV | 16.0" (406 mm)        | 0.72"-1.29" (18,3-32,8 mm) | 300-500 kcmil       | 250-500 kcmil       | 2/0 AWG-300 kcmil (70-150 mm²) | 2-4/0 AWG (35-120 mm²)       | 2-2/0 AWG (35-70 mm²)          |
| 7655-S-INV-4 | 054007-04623 | 4      | 200 kV | 16.0" (406 mm)        | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil      | 600-1250 kcmil      | 500-1000 kcmil (240-500 mm²)   | 250-800 kcmil (150-400 mm²)  | 3/0 AWG-600 kcmil (95-325 mm²) |
| 7656-S-INV-4 | 054007-04624 | 4      | 200 kV | 16.0" (406 mm)        | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil     | 1500-2000 kcmil     | 1250-2000 kcmil (625-1000 mm²) | 900-1750 kcmil (500-800 mm²) | 700-1500 kcmil (400-725 mm²)   |

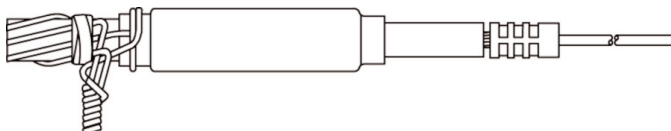
## JCN and CN Cable, 5–35 kV: 3M™ Cold Shrink QT-II Terminations: Indoor

## 3M™ Cold Shrink QT-II Termination Kits 5670 Series for 15 kV

3M™ Cold Shrink QT-II Silicone Rubber Termination Kits 5671 and 5672 are one piece, 15 kV, non-skirted terminations classified as IEEE Standard 48, Class 3 Terminations. They consist of a High-K (high dielectric constant) stress control tube insulated with a silicone rubber insulator, pre-stretched together onto a removable cold-shrink core. The kits are designed for terminating 15 kV rated concentric neutral (CN) or jacketed concentric neutral (JCN) power cables.

Each kit contains sufficient quantities of material to make one termination. Lugs must be ordered separately.

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Number of Conductors   | Single Conductor                                              |
| Shielding Type         | Jacketed Concentric Neutral (JCN),<br>Concentric Neutral (CN) |
| Indoor/Outdoor         | Indoor                                                        |
| Breakout Boot          | No                                                            |
| Insulation Rejacketing | No                                                            |
| No. Skirts             | 0                                                             |
| Voltage                | 15 kV                                                         |
| Packaging              | 10 kits per case (one termination<br>per kit)                 |



| Order No. | UPC          | BIL    | Max. Installed Length | Insulation O.D. Range         | Conductor Size 15 kV                         | Lug/Stem Connector Included in Kit |
|-----------|--------------|--------|-----------------------|-------------------------------|----------------------------------------------|------------------------------------|
| 5671      | 054007-33798 | 110 kV | 6.25"<br>(159 mm)     | 0.64"-1.12"<br>(16,2-28,4 mm) | 2 AWG-250 kcmil<br>(35-120 mm <sup>2</sup> ) | No                                 |
| 5672      | 054007-33799 | 110 kV | 6.5"<br>(165 mm)      | 0.94"-1.81"<br>(23,8-46,0 mm) | 250-1000 kcmil<br>(150-500 mm <sup>2</sup> ) | No                                 |

## 3M™ Cold Shrink QT-II Termination Kit 5640 & 5650 Series - 4-Skirt, for 15 kV

3M™ Cold Shrink QT-II Silicone Rubber Termination Kits 5640 and 5650 are one-piece cold shrink terminations for jacketed concentric neutral (JCN) power cable. They meet the requirements of IEEE Standard 48, for Class 1 terminations. The 3M QT-II consists of a high dielectric constant (High-K) stress control tube insulated with a molded silicone skirted insulator. This four skirt design is rated 15 kV.

Each kit contains sufficient material to make one termination. Lugs may, or may not, be included in a specific kit. Details are provided regarding lug/connector contents.

|                        |                                          |
|------------------------|------------------------------------------|
| Number of Conductors   | Single Conductor                         |
| Shielding Type         | Jacketed Concentric Neutral (JCN)        |
| Indoor/Outdoor         | Outdoor                                  |
| Breakout Boot          | No                                       |
| Insulation Rejacketing | No                                       |
| No. Skirts             | 4                                        |
| Voltage                | 15 kV                                    |
| Packaging              | 1 kit per case (one termination per kit) |



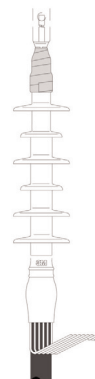
| Order No.    | UPC          | BIL    | Max. Installed Length | Insulation O.D. Range      | Cable Jacket O.D.          | Conductor Size 15 kV                        | Lug/Stem Connector Included in Kit | Additional Kit Contents                             |
|--------------|--------------|--------|-----------------------|----------------------------|----------------------------|---------------------------------------------|------------------------------------|-----------------------------------------------------|
| 5641         | 054007-11963 | 110 kV | 10.0" (254 mm)        | 0.64"-1.12" (16,3-28,4 mm) | 0.93"-1.35" (23,6-34,3 mm) | 2-2/0 AWG (35-60 mm <sup>2</sup> )          | No                                 | -                                                   |
| 5641-1/0     | 054007-11964 | 110 kV | 10.0" (254 mm)        | 0.64"-1.12" (16,2-28,4 mm) | 0.93"-1.35" (23,6-34,3 mm) | 1/0 AWG                                     | Yes                                | (1) SC0010 Stem Connector                           |
| 5641-1/0-MB3 | 054007-70501 | 110 kV | 10.0" (254 mm)        | 0.64"-1.12" (16,3-28,4 mm) | 0.93"-1.35" (23,6-34,3 mm) | 1/0 AWG                                     | Yes                                | (1) SC0010 Stem Connector, (1) MB3 Mounting Bracket |
| 5641-2/0     | 054007-11967 | 110 kV | 10.0" (254 mm)        | 0.64"-1.12" (16,3-28,4 mm) | 0.93"-1.35" (23,6-34,3 mm) | 2/0 AWG                                     | Yes                                | (1) SC0020 Stem Connector                           |
| 5641-2       | 054007-11965 | 110 kV | 10.0" (254 mm)        | 0.64"-1.12" (16,3-28,4 mm) | 0.93"-1.35" (23,6-34,3 mm) | 2 AWG                                       | Yes                                | (1) SC0001 Stem Connector                           |
| 5641-22      | 054007-11968 | 110 kV | 10.0" (254 mm)        | 0.64"-1.12" (16,3-28,4 mm) | 0.93"-1.35" (23,6-34,3 mm) | 2 AWG Solid<br>4 AWG Stranded               | Yes                                | (1) SC0002 Stem Connector                           |
| 5642         | 054007-11970 | 110 kV | 10.0" (254 mm)        | 0.84"-1.38" (21,3-35,1 mm) | 1.19"-1.72" (30,2-43,7 mm) | 3/0 AWG-350 kcmil (95-180 mm <sup>2</sup> ) | No                                 | -                                                   |
| 5642-4/0     | 054007-11971 | 110 kV | 10.0" (254 mm)        | 0.84"-1.38" (21,3-35,1 mm) | 1.19"-1.72" (30,2-43,7 mm) | 4/0 AWG                                     | Yes                                | (1) SC0040 Stem Connector                           |
| 5643         | 054007-11972 | 110 kV | 11.0" (279 mm)        | 1.08"-1.80" (27,4-45,7 mm) | 1.37"-2.02" (34,8-51,3 mm) | 400-600 kcmil (240-325 mm <sup>2</sup> )    | No                                 | -                                                   |
| 5644         | 054007-11973 | 110 kV | 11.25" (286 mm)       | 1.31"-2.10" (33,3-53,3 mm) | 1.62"-2.55" (41,2-64,8 mm) | 700-1500 kcmil (400-725 mm <sup>2</sup> )   | No                                 | -                                                   |

## 3M™ Cold Shrink QT-II Termination Kit 5640 & 5650 Series - 6-Skirt, for 15-25/28 kV

3M™ Cold Shrink QT-II Silicone Rubber Termination Kits 5640 and 5650 are one-piece cold shrink terminations for jacketed concentric neutral (JCN) power cable. They meet the requirements of IEEE Standard 48, for Class 1 terminations. The 3M QT-II termination consists of a high dielectric constant (High-K) stress control tube insulated with a molded silicone skirted insulator. This six skirt design is rated 25/28 kV.

Each kit contains sufficient material to make one termination. Lugs may, or may not, be included in a specific kit. Details are provided regarding lug/connector contents.

|                        |                                          |
|------------------------|------------------------------------------|
| Number of Conductors   | Single Conductor                         |
| Shielding Type         | Jacketed Concentric Neutral (JCN)        |
| Indoor/Outdoor         | Outdoor                                  |
| Breakout Boot          | No                                       |
| Insulation Rejacketing | No                                       |
| No. Skirts             | 6                                        |
| Voltage                | 15 kV, 25/28 kV                          |
| Packaging              | 1 kit per case (one termination per kit) |



| Order No. | UPC          | BIL    | Max. Installed Length | Insulation O.D. Range      | Cable Jacket O.D.          | Conductor Size 15 kV           | Conductor Size 25/28 kV        | Additional Kit Contents   |
|-----------|--------------|--------|-----------------------|----------------------------|----------------------------|--------------------------------|--------------------------------|---------------------------|
| 5651      | 054007-09132 | 150 kV | 13.0" (330 mm)        | 0.64"-1.12" (16,3-28,4 mm) | 0.93"-1.35" (23,6-34,3 mm) | 2-2/0 AWG (35-60 mm²)          | 2-1/0 AWG (35-50 mm²)          | —                         |
| 5651-1/0  | 054007-70527 | 150 kV | 13.0" (330 mm)        | 0.64"-1.12" (16,3-28,4 mm) | 0.93"-1.35" (23,6-34,3 mm) | 1/0 AWG                        | 1/0 AWG                        | (1) SC0010 Stem Connector |
| 5651-2    | 054007-70528 | 150 kV | 13.0" (330 mm)        | 0.64"-1.12" (16,3-28,4 mm) | 0.93"-1.35" (23,6-34,3 mm) | 2 AWG                          | 2 AWG                          | (1) SC0001 Stem Connector |
| 5652      | 054007-69791 | 150 kV | 13.0" (330 mm)        | 0.84"-1.38" (21,3-35,1 mm) | 1.19"-1.72" (30,2-43,6 mm) | 3/0 AWG-350 kcmil (95-150 mm²) | 1/0 AWG-250 kcmil (60-120 mm²) | —                         |
| 5652-1/0  | 054007-04818 | 150 kV | 13.0" (330 mm)        | 0.84"-1.38" (21,3-35,1 mm) | 1.19"-1.72" (30,2-43,6 mm) | —                              | 1/0 AWG                        | (1) SC0010 Stem Connector |
| 5652-4/0  | 054007-50757 | 150 kV | 13.0" (330 mm)        | 0.84"-1.38" (21,3-35,1 mm) | 1.19"-1.72" (30,2-43,6 mm) | 4/0 AWG                        | 4/0 AWG                        | (1) SC0040 Stem Connector |
| 5653      | 054007-69792 | 150 kV | 14.5" (368 mm)        | 1.08"-1.80" (27,4-45,7 mm) | 1.37"-2.02" (34,8-51,3 mm) | 400-700 kcmil (240-325 mm²)    | 250-500 kcmil (150-250 mm²)    | —                         |
| 5654      | 054007-69793 | 150 kV | 14.75" (375 mm)       | 1.31"-2.10" (33,3-53,3 mm) | 1.62"-2.55" (41,2-64,8 mm) | 750-1500 kcmil (400-725 mm²)   | 500-1250 kcmil (300-625 mm²)   | —                         |

## JCN and CN Cable, 5–35 kV: 3M™ Cold Shrink QT-II Terminations: Outdoor Skirted

## 3M™ Cold Shrink QT-II Termination Kit 5640 &amp; 5650 Series - 8-Skirt, for 15-35 kV

3M™ Cold Shrink QT-II Silicone Rubber Termination Kits 5640 and 5650 are one-piece cold shrink terminations for jacketed concentric neutral (JCN) power cable. They meet the requirements of IEEE Standard 48, for Class 1 terminations. The 3M QT-II termination consists of a high dielectric constant (High-K) stress control tube insulated with a molded silicone skirted insulator. This eight skirt design is rated 35 kV.

Each kit contains sufficient material to make one termination. Lugs may, or may not, be included in a specific kit. Details are provided regarding lug/connector contents.

\* Shielding type for kit QT-II 5649 is tape shield.

|                        |                                                    |
|------------------------|----------------------------------------------------|
| Number of Conductors   | Single Conductor                                   |
| Shielding Type         | Jacketed Concentric Neutral (JCN),<br>*Tape Shield |
| Indoor/Outdoor         | Outdoor                                            |
| Breakout Boot          | No                                                 |
| Insulation Rejacketing | No                                                 |
| No. Skirts             | 8                                                  |
| Voltage                | 15 kV, 25/28 kV, 35 kV                             |
| Packaging              | 1 kit per case (one termination per kit)           |



| Order No.    | UPC          | Shielding Type | BIL    | Max. Installed Length | Insulation O.D. Range      | Cable Jacket O.D.          | Conductor Size 15 kV                        | Conductor Size 25/28 kV                     | Conductor Size 35 kV                         | Additional Kit Contents                               |
|--------------|--------------|----------------|--------|-----------------------|----------------------------|----------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------------|-------------------------------------------------------|
| 5646         | 054007-11975 | JCN            | 200 kV | 17.5" (444 mm)        | 0.84"-1.38" (21,3-35,1 mm) | 1.19"-1.72" (30,2-43,6 mm) | 3/0 AWG-350 kcmil (95-150 mm <sup>2</sup> ) | 1/0 AWG-250 kcmil (60-120 mm <sup>2</sup> ) | 1-3/0 AWG (50-80 mm <sup>2</sup> )           | —                                                     |
| 5646-1/0     | 054007-70507 | JCN            | 200 kV | 17.5" (444 mm)        | 0.84"-1.38" (21,3-35,1 mm) | 1.19"-1.72" (30,2-43,6 mm) | —                                           | 1/0 AWG                                     | 1/0 AWG                                      | (1) SC0010 Stem Connector                             |
| 5646-1/0-MB4 | 054007-70508 | JCN            | 200 kV | 17.5" (444 mm)        | 0.84"-1.38" (21,3-35,1 mm) | 1.19"-1.72" (30,2-43,6 mm) | —                                           | 1/0 AWG                                     | 1/0 AWG                                      | (1) SC0010 Stem Connector<br>(1) MB4 Mounting Bracket |
| 5647         | 054007-11976 | JCN            | 200 kV | 19.5" (495 mm)        | 1.08"-1.80" (27,4-45,7 mm) | 1.37"-2.02" (34,8-51,3 mm) | 400-700 kcmil (240-325 mm <sup>2</sup> )    | 250-500 kcmil (150-250 mm <sup>2</sup> )    | 4/0 AWG-300 kcmil (120-150 mm <sup>2</sup> ) | —                                                     |
| 5647-4/0     | 054007-70512 | JCN            | 200 kV | 19.5" (495 mm)        | 1.08"-1.80" (27,4-45,7 mm) | 1.37"-2.02" (34,8-51,3 mm) | —                                           | —                                           | 4/0 AWG                                      | (1) SC0040 Stem Connector                             |
| 5648         | 054007-11977 | JCN            | 200 kV | 19.75" (501 mm)       | 1.31"-2.10" (33,3-53,3 mm) | 1.62"-2.55" (41,2-64,8 mm) | 750-1500 kcmil (400-725 mm <sup>2</sup> )   | 500-1250 kcmil (300-625 mm <sup>2</sup> )   | 350-1000 kcmil (185-500 mm <sup>2</sup> )    | —                                                     |
| 5649*        | 054007-09958 | Tape Shield    | 200 kV | 21.0" (533 mm)        | 1.80"-2.30" (45,7-58,4 mm) | 2.10"-2.75" (53,4-69,8 mm) | —                                           | —                                           | 1000-1500 kcmil (600-725 mm <sup>2</sup> )   | —                                                     |

## JCN and CN Cable, 5–35 kV: 3M™ Cold Shrink QT-II Terminations: Outdoor Skirted Non-Jacketed Concentric Neutral (CN) Kits

### 3M™ Cold Shrink QT-II Termination Kit 5600 & 5680 Series – 4 Skirt, for 5-15 kV

The 3M™ Cold Shrink QT-II Outdoor Termination Kits 5600 and 5680 contain one-piece silicone rubber terminations designed for concentric neutral (CN) cable. They meet the requirements of IEEE Standard 48, for Class 1 terminations. The 3M termination consists of a high dielectric-constant (High-K) stress control tube insulated with a molded silicone skirted insulator.

Each kit makes one termination. Lugs may, or may not, be included in a specific kit. Details are provided regarding lug/connector contents.

|                               |                                          |
|-------------------------------|------------------------------------------|
| <b>Number of Conductors</b>   | Single Conductor                         |
| <b>Shielding Type</b>         | Concentric Neutral (CN)                  |
| <b>Indoor/Outdoor</b>         | Outdoor                                  |
| <b>Breakout Boot</b>          | No                                       |
| <b>Insulation Rejacketing</b> | No                                       |
| <b>No. Skirts</b>             | 4                                        |
| <b>Voltage</b>                | 5 kV, 8 kV, 15 kV                        |
| <b>Packaging</b>              | 1 kit per case (one termination per kit) |



| Order No. | UPC          | BIL    | Max. Installed Length | Insulation O.D. Range      | Conductor Size 5 kV 100%                    | Conductor Size 5 kV 133% / 8 kV 100%        | Conductor Size 8 kV 133%                    | Conductor Size 15 kV                      | Additional Kit Contents   |
|-----------|--------------|--------|-----------------------|----------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------------------|---------------------------|
| 5601      | 054007-02427 | 110 kV | 8.50" (216 mm)        | 0.64"-1.12" (16,3-28,4 mm) | 3/0 AWG-500 kcmil (95-250 mm <sup>2</sup> ) | 2/0 AWG-500 kcmil (70-250 mm <sup>2</sup> ) | 1/0 AWG-350 kcmil (60-150 mm <sup>2</sup> ) | 2-4/0 AWG (35-100 mm <sup>2</sup> )       | -                         |
| 5601-1/0  | 054007-02422 | 110 kV | 8.50" (216 mm)        | 0.64"-1.12" (16,3-28,4 mm) | -                                           | -                                           | 1/0 AWG                                     | 1/0 AWG                                   | (1) SC0010 Stem Connector |
| 5601-2    | 054007-13550 | 110 kV | 8.50" (216 mm)        | 0.64"-1.12" (16,3-28,4 mm) | -                                           | -                                           | -                                           | 2 AWG                                     | (1) SC0001 Stem Connector |
| 5601-2/0  | 054007-02423 | 110 kV | 8.50" (216 mm)        | 0.64"-1.12" (16,3-28,4 mm) | -                                           | 2/0 AWG                                     | 2/0 AWG                                     | 2/0 AWG                                   | (1) SC0020 Stem Connector |
| 5601-4/0  | 054007-13544 | 110 kV | 8.50" (216 mm)        | 0.64"-1.12" (16,3-28,4 mm) | 4/0 AWG                                     | 4/0 AWG                                     | 4/0 AWG                                     | 4/0 AWG                                   | (1) SC0040 Stem Connector |
| 5602      | 054007-11882 | 110 kV | 8.50" (216 mm)        | 0.84"-1.38" (21,3-35,1 mm) | 350-750 kcmil (185-325 mm <sup>2</sup> )    | 350-750 kcmil (185-325 mm <sup>2</sup> )    | 250-750 kcmil (150-325 mm <sup>2</sup> )    | 250-500 kcmil (150-250 mm <sup>2</sup> )  | -                         |
| 5603      | 054007-11885 | 110 kV | 9.50" (241 mm)        | 1.08"-1.80" (27,4-45,7 mm) | 750-1000 kcmil (400-500 mm <sup>2</sup> )   | 750-1500 kcmil (400-725 mm <sup>2</sup> )   | 500-1250 kcmil (300-625 mm <sup>2</sup> )   | 500-1250 kcmil (300-625 mm <sup>2</sup> ) | -                         |

## JCN and CN Cable, 5–35 kV: 3M™ Cold Shrink QT-II Terminations: Outdoor Skirted Non-Jacketed Concentric Neutral (CN) Kits

### 3M™ Cold Shrink QT-II Termination Kit 5600 & 5680 Series – 6 Skirt, for 5-35 kV

The 3M™ Cold Shrink QT-II Outdoor Termination Kits 5600 and 5680 contain one-piece silicone rubber terminations designed for concentric neutral (CN) cable. They meet the requirements of IEEE Standard 48, for Class 1 terminations. The 3M termination consists of a high dielectric-constant (High-K) stress control tube insulated with a molded silicone skirted insulator.

Each kit has sufficient material to make one termination. Lugs may, or may not, be included in a specific kit. Details are provided regarding lug/connector contents.

|                               |                                          |
|-------------------------------|------------------------------------------|
| <b>Number of Conductors</b>   | Single Conductor                         |
| <b>Shielding Type</b>         | Concentric Neutral (CN)                  |
| <b>Indoor/Outdoor</b>         | Outdoor                                  |
| <b>Breakout Boot</b>          | No                                       |
| <b>Insulation Rejacketing</b> | No                                       |
| <b>No. Skirts</b>             | 6                                        |
| <b>Voltage</b>                | 5 kV, 8 kV, 15 kV, 25/28 kV, 35 kV       |
| <b>Packaging</b>              | 1 kit per case (one termination per kit) |



|                                     | 5681                           | 5681-1/0                        | 5681-2                        |
|-------------------------------------|--------------------------------|---------------------------------|-------------------------------|
| UPC                                 | 054007-09133                   | 054007-70491                    | 054007-70492                  |
| BIL                                 | 150 kV                         | 150 kV                          | 150 kV                        |
| Max. Installed Length               | 11.50" (292 mm)                | 11.50" (292 mm)                 | 11.50" (292 mm)               |
| Insulation O.D. Range               | 0.64"-1.12" (16,3-28,4 mm)     | 0.64"-1.12" (16,3-28,4 mm)      | 0.64"-1.12" (16,3-28,4 mm)    |
| Conductor Size 5 kV 100%            | 3/0 AWG-500 kcmil (95-250 mm²) | -                               | -                             |
| Conductor Size 5 kV 133%: 8 kV 100% | 2/0 AWG-500 kcmil (70-250 mm²) | -                               | -                             |
| Conductor Size 8 kV 133%            | 1/0 AWG-350 kcmil (60-150 mm²) | 1/0 AWG                         | -                             |
| Conductor Size 15 kV                | 4-4/0 AWG (22-100 mm²)         | 1/0 AWG                         | 2 AWG                         |
| Conductor Size 25/28 kV             | 4-2/0 AWG (22-60 mm²)          | 1/0 AWG                         | 2 AWG                         |
| Conductor Size 35 kV                | -                              | -                               | -                             |
| Additional Kit Contents             | -                              | (1) SC0010 Stem Connector       | (1) SC0001 Stem Connector     |
|                                     | 5682                           | 5683                            | 5684                          |
| UPC                                 | 054007-69794                   | 054007-69795                    | 054007-69796                  |
| BIL                                 | 150 kV                         | 150 kV                          | 150 kV                        |
| Max. Installed Length               | 11.50" (292 mm)                | 13.00" (330 mm)                 | 13.25" (337 mm)               |
| Insulation O.D. Range               | 0.84"-1.38" (21,3-35,1 mm)     | 1.08"-1.80" (27,4-45,7 mm)      | 1.31"-2.10" (33,3-53,3 mm)    |
| Conductor Size 5 kV 100%            | 350-750 kcmil (185-325 mm²)    | 750-1000 kcmil (400-500 mm²)    | -                             |
| Conductor Size 5 kV 133%: 8 kV 100% | 350-750 kcmil (185-325 mm²)    | 750-1500 kcmil (400-725 mm²)    | -                             |
| Conductor Size 8 kV 133%            | 250-750 kcmil (150-325 mm²)    | 500-1250 kcmil (300-625 mm²)    | -                             |
| Conductor Size 15 kV                | 250-500 kcmil (150-250 mm²)    | 500-1250 kcmil (300-625 mm²)    | 1000-1750 kcmil (500-850 mm²) |
| Conductor Size 25/28 kV             | 1/0 AWG-350 kcmil (60-150 mm²) | 350-750 kcmil (185-325 mm²)     | 750-1500 kcmil (400-725 mm²)  |
| Conductor Size 35 kV                | 1-4/0 AWG (50-100 mm²)         | 4/0 AWG-500 kcmil (120-250 mm²) | 500-1250 kcmil (300-625 mm²)  |
| Additional Kit Contents             | -                              | -                               | -                             |

## JCN and CN Cable, 5–35 kV: 3M™ Cold Shrink QT-II Terminations: Outdoor Skirted Non-Jacketed Concentric Neutral (CN) Kits

### 3M™ Cold Shrink QT-II Termination Kit 5600 & 5680 Series – 8 Skirt, for 5-35 kV

The 3M™ Cold Shrink QT-II Outdoor Termination Kits 5600 and 5680 contain one-piece silicone rubber terminations designed for concentric neutral (CN) cable. They meet the requirements of IEEE Standard 48, for Class 1 terminations. The 3M termination consists of a high dielectric-constant (High-K) stress control tube insulated with a molded silicone skirted insulator.

Each kit contains sufficient material to make one termination. Lugs must be ordered separately.

|                               |                                          |
|-------------------------------|------------------------------------------|
| <b>Number of Conductors</b>   | Single Conductor                         |
| <b>Shielding Type</b>         | Concentric Neutral (CN)                  |
| <b>Indoor/Outdoor</b>         | Outdoor                                  |
| <b>Breakout Boot</b>          | No                                       |
| <b>Insulation Rejacketing</b> | No                                       |
| <b>No. Skirts</b>             | 8                                        |
| <b>Voltage</b>                | 5 kV, 8 kV, 15 kV, 25/28 kV, 35 kV       |
| <b>Packaging</b>              | 1 kit per case (one termination per kit) |



|                                        | 5604                              | 5605                              | 5606                               |
|----------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
| UPC                                    | 054007-08002                      | 054007-11888                      | 054007-11893                       |
| BIL                                    | 200 kV                            | 200 kV                            | 200 kV                             |
| Max. Installed Length                  | 16.00" (406 mm)                   | 16.00" (406 mm)                   | 18.00" (457 mm)                    |
| Insulation O.D. Range                  | 0.64"-1.12"<br>(16,3-28,4 mm)     | 0.84"-1.38"<br>(21,3-35,1 mm)     | 1.08"-1.80"<br>(27,4-45,7 mm)      |
| Conductor Size 5 kV<br>100%            | 3/0 AWG-500 kcmil<br>(95-250 mm²) | 350-750 kcmil<br>(185-325 mm²)    | 750-1000 kcmil<br>(400-500 mm²)    |
| Conductor Size 5 kV<br>133%: 8 kV 100% | 2/0 AWG-500 kcmil<br>(70-250 mm²) | 350-750 kcmil<br>(185-325 mm²)    | 750-1500 kcmil<br>(400-725 mm²)    |
| Conductor Size 8 kV<br>133%            | 1/0 AWG-350 kcmil<br>(60-150 mm²) | 250-750 kcmil<br>(150-325 mm²)    | 500-1250 kcmil<br>(300-625 mm²)    |
| Conductor Size 15 kV                   | 4-4/0 AWG<br>(22-100 mm²)         | 250-500 kcmil<br>(150-250 mm²)    | 500-1250 kcmil<br>(300-625 mm²)    |
| Conductor Size 25/28<br>kV             | 4-2/0 AWG<br>(22-60 mm²)          | 1/0 AWG-350 kcmil<br>(60-150 mm²) | 350-750 kcmil<br>(185-325 mm²)     |
| Conductor Size 35 kV                   | 2-1/0 AWG<br>(30-50 mm²)          | 1-4/0 AWG<br>(50-100 mm²)         | 4/0 AWG-500 kcmil<br>(120-250 mm²) |
|                                        | 5607                              | 5608                              |                                    |
| UPC                                    | 054007-11897                      | 054007-09168                      |                                    |
| BIL                                    | 200 kV                            | 200 kV                            |                                    |
| Max. Installed Length                  | 18.25" (464 mm)                   | 19.50" (495 mm)                   |                                    |
| Insulation O.D. Range                  | 1.31"-2.10"<br>(33,3-53,3 mm)     | 1.80"-2.75"<br>(45,7-69,8 mm)     |                                    |
| Conductor Size 5 kV<br>100%            | -                                 | -                                 |                                    |
| Conductor Size 5 kV<br>133%: 8 kV 100% | -                                 | -                                 |                                    |
| Conductor Size 8 kV<br>133%            | -                                 | -                                 |                                    |
| Conductor Size 15 kV                   | 1000-1750 kcmil<br>(600-850 mm²)  | 1500-2000 kcmil<br>(800-1000 mm²) |                                    |
| Conductor Size 25/28<br>kV             | 750-1500 kcmil<br>(325-725 mm²)   | 1250-2000 kcmil<br>(725-1000 mm²) |                                    |
| Conductor Size 35 kV                   | 500-1250 kcmil<br>(300-625 mm²)   | 1000-2000 kcmil<br>(600-1000 mm²) |                                    |

# 3M™ Medium Voltage Terminations for PILC Cable, 15 kV – 25/28 kV

| Section                                                                   | Page    |
|---------------------------------------------------------------------------|---------|
| PILC Cable, 15–25/28 kV .....                                             | 260-261 |
| 3M™ Cold Shrink QT-II Terminations .....                                  | 260-261 |
| Outdoor Skirted Kits (can be used for indoor applications also) .....     | 260-261 |
| 3M™ PILC Termination Kits 5800-Pb Series – 4 Skirt, for 15 kV .....       | 260     |
| 3M™ PILC Termination Kits 5800-Pb Series – 6 Skirt, for 15-25/28 kV ..... | 261     |

PILC Cable, 15–25/28 kV: 3M™ Cold Shrink QT-II Terminations: Outdoor Skirted Kits (can be used for indoor applications also)

## 3M™ PILC Termination Kits 5800-Pb Series – 4 Skirt, for 15 kV

The 3M™ PILC Silicone Rubber Termination Kits 5800-Pb Series are designed for oil/paper insulated power cable. They meet the requirements of IEEE Standard 48, for Class 1 terminations and applicable sections of IEEE 404. The 3M QT-II termination consists of a high dielectric constant (High-K) stress control tube insulated with a molded silicone skirted insulator. There is a four-skirt design rated 15 kV and a six-skirt design rated 25/28 kV. To ensure a positive oil seal and to conform with pressure test requirements, a sealed terminal lug or connector must be used with the 5800-Pb series kits.

Each kit contains sufficient quantities of material to make one termination. These kits can be specified with or without sealed copper lugs (see selection table).

|                        |                                          |
|------------------------|------------------------------------------|
| Number of Conductors   | Single Conductor                         |
| Shielding Type         | Paper Insulated Lead Covered (PILC)      |
| Indoor/Outdoor         | Outdoor                                  |
| Breakout Boot          | No                                       |
| Insulation Rejacketing | No                                       |
| No. Skirts             | 4                                        |
| Voltage                | 15 kV                                    |
| Packaging              | 1 kit per case (one termination per kit) |



| Order No.   | UPC          | BIL    | Max. Installed Length | Insulation O.D. Range      | Conductor Size 15 kV           | Conductor Size Stranded | Conductor Size Solid | Lug/Stem Connector Included in Kit |
|-------------|--------------|--------|-----------------------|----------------------------|--------------------------------|-------------------------|----------------------|------------------------------------|
| 5801-Pb     | 054007-50448 | 110 kV | 17.25" (438 mm)       | 0.59"-0.90" (14,9-22,9 mm) | 4-2/0 AWG (22-60 mm²)          | -                       | -                    | -                                  |
| 5801-Pb-2   | 054007-50451 | 110 kV | 17.25" (438 mm)       | 0.59"-0.90" (14,9-22,9 mm) | -                              | 2 AWG                   | 1 AWG                | OS-0001 (1-Hole)                   |
| 5801-Pb-1/0 | 054007-50449 | 110 kV | 17.25" (438 mm)       | 0.59"-0.90" (14,9-22,9 mm) | -                              | 1/0 AWG                 | 2/0 AWG              | OS-0010 (1-Hole)                   |
| 5801-Pb-2/0 | 054007-50450 | 110 kV | 17.25" (438 mm)       | 0.59"-0.90" (14,9-22,9 mm) | -                              | 2/0 AWG                 | 3/0 AWG              | OS-0020 (1-Hole)                   |
| 5802-Pb     | 054007-50452 | 110 kV | 17.25" (438 mm)       | 0.71"-1.01" (18,0-25,6 mm) | 2/0 AWG-250 kcmil (70-120 mm²) | -                       | -                    | -                                  |
| 5802-Pb-4/0 | 054007-50454 | 110 kV | 17.25" (438 mm)       | 0.71"-1.01" (18,0-25,6 mm) | -                              | 4/0 AWG                 | 250 kcmil            | OS-0040 (1-Hole)                   |
| 5802-Pb-250 | 054007-50455 | 110 kV | 17.25" (438 mm)       | 0.71"-1.01" (18,0-25,6 mm) | -                              | 250 kcmil               | -                    | OS-0250 (2-Hole)                   |
| 5803-Pb     | 054007-50456 | 110 kV | 18.25" (464 mm)       | 0.94"-1.36" (23,9-34,5 mm) | 350-600 kcmil (185-300 mm²)    | -                       | -                    | -                                  |
| 5803-Pb-350 | 054007-50457 | 110 kV | 18.25" (464 mm)       | 0.94"-1.36" (23,9-34,5 mm) | -                              | 350 kcmil               | -                    | OS-0350 (2-Hole)                   |
| 5803-Pb-500 | 054007-50458 | 110 kV | 18.25" (464 mm)       | 0.94"-1.36" (23,9-34,5 mm) | -                              | 500 kcmil               | -                    | OS-0500 (2-Hole)                   |
| 5804-Pb     | 054007-50459 | 110 kV | 18.50" (464 mm)       | 1.20"-1.90" (30,5-48,2 mm) | 750-1250 kcmil (400-625 mm²)   | -                       | -                    | -                                  |

PILC Cable, 15–25/28 kV: 3M™ Cold Shrink QT-II Terminations: Outdoor Skirted Kits (can be used for indoor applications also)

## 3M™ PILC Termination Kits 5800-Pb Series – 6 Skirt, for 15-25/28 kV

The 3M™ PILC Silicone Rubber Termination Kits 5800-Pb Series are designed for oil/paper insulated power cable. They meet the requirements of IEEE Standard 48, for Class 1 terminations and applicable sections of IEEE 404. The 3M QT-II termination consists of a high dielectric constant (High-K) stress control tube insulated with a molded silicone skirted insulator. There is a four-skirt design rated 15 kV and a six-skirt design rated 25/28 kV. To ensure a positive oil seal and to conform with pressure test requirements, a sealed terminal lug or connector must be used with the 5800-Pb series kits.

Each kit contains sufficient quantities of material to make one termination. These kits can be specified with or without sealed copper lugs (see selection table).

Note: Because of the various factors which affect cable primary insulation O.D. and cable jacket O.D. (e.g. types of conductor, insulation thickness), the cable sizes in the charts are guidelines. Confirm that cable insulation O.D. fits range specified for the termination. For three conductor applications, consult your 3M sales representative.



|                        |                                          |
|------------------------|------------------------------------------|
| Number of Conductors   | Single Conductor                         |
| Shielding Type         | Paper Insulated Lead Covered (PILC)      |
| Indoor/Outdoor         | Outdoor                                  |
| Breakout Boot          | No                                       |
| Insulation Rejacketing | No                                       |
| No. Skirts             | 6                                        |
| Voltage                | 15 kV, 25/28 kV                          |
| Packaging              | 1 kit per case (one termination per kit) |

| Order No.   | UPC          | BIL    | Max. Installed Length | Insulation O.D. Range      | Conductor Size 15 kV           | Conductor Size 25/28 kV        | Conductor Size 25/28 kV Stranded | Conductor Size 25/28 kV Solid | Lug/Stem Connector Included in Kit |
|-------------|--------------|--------|-----------------------|----------------------------|--------------------------------|--------------------------------|----------------------------------|-------------------------------|------------------------------------|
| 5806-Pb     | 054007-50460 | 150 kV | 20.25" (514 mm)       | 0.71"-1.01" (18,0-25,6 mm) | 2/0 AWG-250 kcmil (70-120 mm²) | 2-1/0 AWG (35-50 mm²)          | -                                | -                             | -                                  |
| 5806-Pb-2   | 054007-50462 | 150 kV | 20.25" (514 mm)       | 0.71"-1.01" (18,0-25,6 mm) | -                              | -                              | 2 AWG                            | 1 AWG                         | OS-0001 (1-Hole)                   |
| 5806-Pb-1/0 | 054007-50461 | 150 kV | 20.25" (514 mm)       | 0.71"-1.01" (18,0-25,6 mm) | -                              | -                              | 1/0 AWG                          | -                             | OS-0010 (1-Hole)                   |
| 5807-Pb     | 054007-50463 | 150 kV | 21.75" (553 mm)       | 0.94"-1.36" (23,9-34,5 mm) | 350-600 kcmil (185-300 mm²)    | 2/0 AWG-250 kcmil (70-120 mm²) | -                                | -                             | -                                  |
| 5807-Pb-2/0 | 054007-50464 | 150 kV | 21.75" (553 mm)       | 0.94"-1.36" (23,9-34,5 mm) | -                              | -                              | 2/0 AWG                          | 3/0 AWG                       | OS-0020 (1-Hole)                   |
| 5807-Pb-3/0 | 054007-50465 | 150 kV | 21.75" (553 mm)       | 0.94"-1.36" (23,9-34,5 mm) | -                              | -                              | 3/0 AWG                          | 4/0 AWG                       | OS-0030 (1-Hole)                   |
| 5807-Pb-250 | 054007-50467 | 150 kV | 21.75" (553 mm)       | 0.94"-1.36" (23,9-34,5 mm) | -                              | -                              | 250 kcmil                        | -                             | OS-0250 (2-Hole)                   |
| 5808-Pb     | 054007-50468 | 150 kV | 21.75" (553 mm)       | 1.20"-1.90" (30,5-48,2 mm) | 750-1250 kcmil (400-625 mm²)   | 350-1000 kcmil (185-500 mm²)   | -                                | -                             | -                                  |
| 5808-Pb-350 | 054007-50469 | 150 kV | 21.75" (553 mm)       | 1.20"-1.90" (30,5-48,2 mm) | -                              | -                              | 350 kcmil                        | -                             | OS-0350 (2-Hole)                   |
| 5808-Pb-500 | 054007-50470 | 150 kV | 21.75" (553 mm)       | 1.20"-1.90" (30,5-48,2 mm) | -                              | -                              | 500 kcmil                        | -                             | OS-0500 (2-Hole)                   |
| 5808-Pb-750 | 054007-41909 | 150 kV | 21.75" (553 mm)       | 1.20"-1.90" (30,5-48,2 mm) | 750 kcmil                      | -                              | 750 kcmil                        | -                             | OS-0750 (2-Hole)                   |

# 3M™ Medium Voltage Terminations for Single Core Tape Shield, Wire Shield and UniShield® Cable, 5 kV – 46 kV

| Section                                                                                  | Page    |
|------------------------------------------------------------------------------------------|---------|
| Single Core Tape Shield, Wire Shield & UniShield® Cable, 5–46 kV ...                     | 263-271 |
| 3M™ Cold Shrink QT-III Terminations .....                                                | 263-265 |
| Indoor Kits .....                                                                        | 263     |
| 3M™ Cold Shrink QT-III Termination Kit 7620-T & 7690-T Series for 5-35 kV .....          | 263     |
| Outdoor Skirted Kits .....                                                               | 264-265 |
| 3M™ Cold Shrink QT-III Termination Kit 7620-S, 7680-S & 7690-S Series for 5-35 kV .....  | 264-265 |
| 3M™ Cold Shrink QT-III Inverted Termination Kit 7620-S & 7690-S Series for 5-35 kV ..... | 265     |
| 3M™ Cold Shrink QT-II Terminations .....                                                 | 266-271 |
| Indoor Kits .....                                                                        | 266-267 |
| 3M™ Cold Shrink QT-II Termination Kit 5620K Series for 5-15 kV .....                     | 266     |
| 3M™ Cold Shrink QT-II Termination Kit 6020K Series for 15-25/28 kV .....                 | 267     |
| Outdoor Skirted Kits .....                                                               | 268-271 |
| 3M™ Cold Shrink QT-II Termination Kit 5630K Series – 4 Skirt, for 5-15 kV .....          | 268     |
| 3M™ Cold Shrink QT-II Termination Kit 5690K Series – 6 Skirt, for 15-25/28 kV .....      | 269     |
| 3M™ Cold Shrink QT-II Termination Kit 5690K Series – 8 Skirt, for 15-35 kV .....         | 270     |
| 3M™ Cold Shrink QT-II Termination Kit QT-II 4604 & 4605 Series for 46 kV .....           | 271     |

## 3M™ Cold Shrink QT-III Termination Kit 7620-T & 7690-T Series for 5-35 kV

3M™ Cold Shrink QT-III Silicone Rubber Termination Kit 7620-T and 7690-T Series contain one-piece, non-skirted, silicone rubber terminations, qualified as IEEE Standard 48 Class 1 for indoor and weather-protected applications. The termination assemblies consist of a tubular insulator, high dielectric constant (Hi-K) stress control tube (7620-T designed and assembled with stress controlling compound only), conformable Hi-K stress controlling compound, and built-in environmental top seal. The insulator is made of a dark gray silicone rubber with advanced tracking resistant and hydrophobic properties. The complete assembly is prestretched and loaded onto a removable core which can be recycled. The kits are designed for terminating solid dielectric shielded power cable rated 5–35 kV, with tape shield, wire shield and UniShield® constructions.

Each kit contains sufficient quantities of material to make three single-phase terminations. Lugs need to be ordered separately.

|                        |                                                          |
|------------------------|----------------------------------------------------------|
| Number of Conductors   | Single Conductor                                         |
| Shielding Type         | Tape Shield, Wire Shield, UniShield®                     |
| Indoor/Outdoor         | Indoor                                                   |
| Breakout Boot          | No                                                       |
| Insulation Rejacketing | No                                                       |
| No. Skirts             | 0                                                        |
| Voltage                | 5 kV, 8 kV, 15 kV, 25/28 kV, 35 kV                       |
| Packaging              | 1 kit per case (three single-phase terminations per kit) |



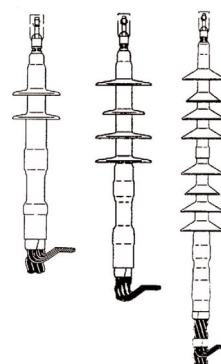
| Order No.  | UPC          | BIL    | Max. Installed Length | Insulation O.D. Range      | Conductor Size 5 kV | Conductor Size 8 kV | Conductor Size 15 kV            | Conductor Size 25/28 kV      | Conductor Size 35 kV           |
|------------|--------------|--------|-----------------------|----------------------------|---------------------|---------------------|---------------------------------|------------------------------|--------------------------------|
| 7620-T-95  | 054007-41758 | 95 kV  | 8.5" (216 mm)         | 0.32"-0.59" (8,1-15,0 mm)  | 8-4 AWG             | 8-6 AWG             | -                               | -                            | -                              |
| 7621-T-95  | 054007-41759 | 95 kV  | 8.5" (216 mm)         | 0.44"-0.89" (11,2-22,6 mm) | 2-3/0 AWG           | 4-2/0 AWG           | -                               | -                            | -                              |
| 7622-T-95  | 051128-57483 | 95 kV  | 8.5" (216 mm)         | 0.64"-1.08" (16,3-27,4 mm) | 4/0 AWG-400 kcmil   | 3/0 AWG-300 kcmil   | -                               | -                            | -                              |
| 7622-T-110 | 054007-41760 | 110 kV | 12.0" (305 mm)        | 0.64"-1.08" (16,3-27,4 mm) | 4/0 AWG-400 kcmil   | 3/0 AWG-300 kcmil   | 2-4/0 AWG (35-120 mm²)          | -                            | -                              |
| 7624-T-95  | 051128-57484 | 95 kV  | 8.5" (216 mm)         | 0.83"-1.53" (21,1-38,9 mm) | 500-750 kcmil       | 350-700 kcmil       | -                               | -                            | -                              |
| 7624-T-110 | 054007-41761 | 110 kV | 12.0" (305 mm)        | 0.83"-1.53" (21,1-38,9 mm) | 500-750 kcmil       | 350-700 kcmil       | 4/0 AWG-500 kcmil (120-240 mm²) | -                            | -                              |
| 7625-T-95  | 051128-57485 | 95 kV  | 8.5" (216 mm)         | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil      | 600-1250 kcmil      | -                               | -                            | -                              |
| 7625-T-110 | 054007-41762 | 110 kV | 12.0" (305 mm)        | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil      | 600-1250 kcmil      | 500-1000 kcmil (240-500 mm²)    | -                            | -                              |
| 7626-T-110 | 054007-41763 | 110 kV | 12.0" (305 mm)        | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil     | 1500-2000 kcmil     | 1250-2000 kcmil (500-1000 mm²)  | -                            | -                              |
| 7693-T-150 | 054007-41778 | 150 kV | 16.0" (406 mm)        | 0.72"-1.29" (18,3-32,8 mm) | 300-500 kcmil       | 250-500 kcmil       | 2/0 AWG-300 kcmil (70-150 mm²)  | 2-4/0 AWG (35-120 mm²)       | 2-2/0 AWG (35-70 mm²)          |
| 7695-T-150 | 054007-41779 | 150 kV | 16.0" (406 mm)        | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil      | 600-1250 kcmil      | 500-1000 kcmil (240-500 mm²)    | 250-800 kcmil (150-400 mm²)  | 3/0 AWG-600 kcmil (95-325 mm²) |
| 7696-T-150 | 054007-41780 | 150 kV | 16.0" (406 mm)        | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil     | 1500-2000 kcmil     | 1250-2000 kcmil (625-1000 mm²)  | 900-1750 kcmil (500-800 mm²) | 700-1500 kcmil (400-725 mm²)   |

## Single Core Tape Shield, Wire Shield & UniShield® Cable, 5-46 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

### 3M™ Cold Shrink QT-III Termination Kit 7620-S, 7680-S & 7690-S Series for 5-35 kV

3M™ Cold Shrink QT-III Silicone Rubber Termination Kit 7620-S, 7680-S and 7690-S Series contain one-piece, skirted, silicone rubber terminations, qualified as IEEE Standard 48 Class 1 for outdoor weather-exposed applications. The termination assemblies consist of a skirted insulator, high-dielectric constant (Hi-K) stress control tube (7620-S is designed and assembled with stress controlling compound only) conformable Hi-K stress controlling compound and built-in environmental top seal. The insulator is made of a dark gray silicone rubber with excellent tracking resistance and hydrophobic properties. The complete assembly is prestretched and loaded onto a removable core which can be recycled. The kits are designed for terminating solid dielectric shielded power cables rated 5-35 kV, with tape shield, wire shield and UniShield® constructions. Each kit makes 3 terminations. Lugs need to be ordered separately.

|                               |                                             |
|-------------------------------|---------------------------------------------|
| <b>Number of Conductors</b>   | Single Conductor                            |
| <b>Shielding Type</b>         | Tape Shield, Wire Shield, UniShield®        |
| <b>Indoor/Outdoor</b>         | Outdoor                                     |
| <b>Breakout Boot</b>          | No                                          |
| <b>Insulation Rejacketing</b> | No                                          |
| <b>Voltage</b>                | 5 kV, 8 kV, 15 kV, 25/28 kV, 35 kV          |
| <b>Packaging</b>              | 1 kit per case (three terminations per kit) |



| Order No. | UPC          | Skirts | BIL    | Max. Installed Length | Insulation O.D. Range      | Cond. Size 5 kV   | Cond. Size 8 kV   | Cond. Size 15 kV                | Cond. Size 25/28 kV            | Cond. Size 35 kV               |
|-----------|--------------|--------|--------|-----------------------|----------------------------|-------------------|-------------------|---------------------------------|--------------------------------|--------------------------------|
| 7620-S-2  | 054007-42168 | 2      | 95 kV  | 10.50" (267 mm)       | 0.32"-0.59" (8,1-15,0 mm)  | 8-4 AWG           | 8-6 AWG           | -                               | -                              | -                              |
| 7621-S-2  | 054007-42169 | 2      | 95 kV  | 10.50" (267 mm)       | 0.44"-0.89" (11,2-22,6 mm) | 2-3/0 AWG         | 4-2/0 AWG         | -                               | -                              | -                              |
| 7622-S-2  | 054007-42170 | 2      | 110 kV | 9.80" (249 mm)        | 0.64"-1.08" (16,3-27,4 mm) | 4/0 AWG-400 kcmil | 3/0 AWG-300 kcmil | 2-4/0 AWG (35-120 mm²)          | -                              | -                              |
| 7692-S-4  | 054007-42211 | 4      | 150 kV | 12.25" (311 mm)       | 0.64"-1.08" (16,3-27,4 mm) | 4/0 AWG-400 kcmil | 3/0 AWG-300 kcmil | 2-4/0 AWG (35-120 mm²)          | 2-1/0 AWG (35-50 mm²)          | -                              |
| 7693-S-4  | 054007-42212 | 4      | 150 kV | 12.25" (311 mm)       | 0.72"-1.29" (18,3-32,8 mm) | 300-500 kcmil     | 250-500 kcmil     | 2/0 AWG-300 kcmil (70-150 mm²)  | 2-4/0 AWG (35-120 mm²)         | -                              |
| 7694-S-4  | 054007-42213 | 4      | 150 kV | 12.25" (311 mm)       | 0.83"-1.53" (21,1-38,9 mm) | 500-750 kcmil     | 350-700 kcmil     | 4/0 AWG-500 kcmil (120-240 mm²) | 2/0 AWG-250 kcmil (70-150 mm²) | -                              |
| 7695-S-4  | 054007-42214 | 4      | 150 kV | 12.25" (311 mm)       | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil    | 600-1250 kcmil    | 500-1000 kcmil (240-500 mm²)    | 250-800 kcmil (150-400 mm²)    | -                              |
| 7696-S-4  | 054007-42215 | 4      | 150 kV | 13.25" (336 mm)       | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil   | 1500-2000 kcmil   | 1250-2000 kcmil (625-1000 mm²)  | 900-1750 kcmil (500-800 mm²)   | -                              |
| 7683-S-8  | 054007-42465 | 8      | 200 kV | 20.50" (521 mm)       | 0.72"-1.29" (18,3-32,8 mm) | 300-500 kcmil     | 250-500 kcmil     | 2/0 AWG-300 kcmil (70-150 mm²)  | 2-4/0 AWG (35-120 mm²)         | 2-2/0 AWG (35-70 mm²)          |
| 7684-S-8  | 054007-42466 | 8      | 200 kV | 20.50" (521 mm)       | 0.83"-1.53" (21,1-38,9 mm) | 500-750 kcmil     | 350-700 kcmil     | 4/0 AWG-500 kcmil (120-240 mm²) | 2/0 AWG-250 kcmil (70-150 mm²) | 2-4/0 AWG (35-120 mm²)         |
| 7685-S-8  | 054007-42467 | 8      | 200 kV | 20.50" (521 mm)       | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil    | 600-1250 kcmil    | 500-1000 kcmil (240-500 mm²)    | 250-800 kcmil (125-400 mm²)    | 3/0 AWG-600 kcmil (95-325 mm²) |

Single Core Tape Shield, Wire Shield & UniShield® Cable, 5–46 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

## 3M™ Cold Shrink QT-III Termination Kit 7620-S, 7680-S & 7690-S Series for 5-35 kV (continued)

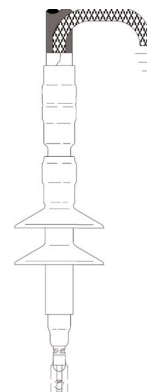
| Order No. | UPC          | Skirts | BIL    | Max. Installed Length | Insulation O.D. Range      | Cond. Size 5 kV | Cond. Size 8 kV | Cond. Size 15 kV               | Cond. Size 25/28 kV          | Cond. Size 35 kV             |
|-----------|--------------|--------|--------|-----------------------|----------------------------|-----------------|-----------------|--------------------------------|------------------------------|------------------------------|
| 7686-S-8  | 054007-42468 | 8      | 200 kV | 21.50" (546 mm)       | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil | 1500-2000 kcmil | 1250-2000 kcmil (625-1000 mm²) | 900-1750 kcmil (500-800 mm²) | 700-1500 kcmil (400-725 mm²) |

## 3M™ Cold Shrink QT-III Inverted Termination Kit 7620-S & 7690-S Series for 5-35 kV

For applications where the cable will be mounted pointing down, the 3M™ Cold Shrink QT-III Inverted Terminations offer easy installation and reliable performance when terminating indoor and outdoor medium voltage cable. The unique step-core design combined with the built-in Hi-K stress control and environmental sealing compounds means simpler installation on all types of cable. It has UV stability, track and erosion resistance. Plus its Hi-K stress control design delivers excellent BIL performance and lower surface stress resulting in a more compact termination. Through excellent engineering, 3M Cold Shrink QT-III terminations deliver maximum performance. The kits are designed for terminating solid dielectric shielded power cables rated 5–35 kV with tape shield, wire shield, and UniShield® constructions.

Each kit makes three terminations. Lugs need to be ordered separately.

|                        |                                             |
|------------------------|---------------------------------------------|
| Number of Conductors   | Single Conductor                            |
| Shielding Type         | Tape Shield, Wire Shield, UniShield®        |
| Indoor/Outdoor         | Outdoor                                     |
| Breakout Boot          | No                                          |
| Insulation Rejacketing | No                                          |
| Voltage                | 5 kV, 8 kV, 15 kV, 25/28 kV, 35 kV          |
| Packaging              | 1 kit per case (three terminations per kit) |



| Order No.    | UPC          | Skirts | BIL    | Max. Installed Length | Insulation O.D. Range      | Cond. Size 5 kV   | Cond. Size 8 kV   | Cond. Size 15 kV               | Cond. Size 25/28 kV          | Cond. Size 35 kV               |
|--------------|--------------|--------|--------|-----------------------|----------------------------|-------------------|-------------------|--------------------------------|------------------------------|--------------------------------|
| 7622-S-INV-2 | 054007-43016 | 2      | 110 kV | 12.0" (305 mm)        | 0.64"-1.08" (16,3-27,4 mm) | 4/0 AWG-400 kcmil | 3/0 AWG-300 kcmil | 2-4/0 AWG (35-120 mm²)         | -                            | -                              |
| 7693-S-INV-4 | 054007-43017 | 4      | 200 kV | 16.0" (406 mm)        | 0.72"-1.29" (18,3-32,8 mm) | 300-500 kcmil     | 250-500 kcmil     | 2/0 AWG-300 kcmil (70-150 mm²) | 2-4/0 AWG (35-120 mm²)       | 2-2/0 AWG (35-70 mm²)          |
| 7695-S-INV-4 | 054007-43018 | 4      | 200 kV | 16.0" (406 mm)        | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil    | 600-1250 kcmil    | 350-1000 kcmil (185-500 mm²)   | 250-800 kcmil (150-400 mm²)  | 3/0 AWG-600 kcmil (95-325 mm²) |
| 7696-S-INV-4 | 054007-43019 | 4      | 200 kV | 16.0" (406 mm)        | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil   | 1500-2000 kcmil   | 1250-2000 kcmil (625-1000 mm²) | 900-1750 kcmil (500-800 mm²) | 700-1500 kcmil (400-725 mm²)   |

## Single Core Tape Shield, Wire Shield &amp; UniShield® Cable, 5–46 kV: 3M™ Cold Shrink QT-II Terminations: Indoor Kits

## 3M™ Cold Shrink QT-II Termination Kit 5620K Series for 5-15 kV

3M™ Cold Shrink QT-II Silicone Rubber Termination Kits 5620K Series contain one-piece, nonskirted, silicone rubber terminations, qualified as IEEE Standard 48 Class I for weather-protected applications. Termination assemblies consist of a high dielectric constant (Hi-K) stress control tube insulated with a nontracking silicone rubber insulator, prestretched and loaded together onto a removable core. The kits are designed for terminating solid dielectric shielded power cable rated 5–15 kV, with tape shield, wire shield and UniShield® constructions.

Each kit contains sufficient material to make 3 single-phase terminations. Lugs must be ordered separately.

|                        |                                                          |
|------------------------|----------------------------------------------------------|
| Number of Conductors   | Single Conductor                                         |
| Shielding Type         | Tape Shield, Wire Shield, UniShield®                     |
| Indoor/Outdoor         | Indoor                                                   |
| Breakout Boot          | No                                                       |
| Insulation Rejacketing | No                                                       |
| No. Skirts             | 0                                                        |
| Voltage                | 5 kV, 8 kV, 15 kV                                        |
| Packaging              | 1 kit per case (three single-phase terminations per kit) |



| Order No. | UPC          | BIL    | Max. Installed Length | Insul. O.D. Range          | Cond. Size 5 kV 100%           | Cond. Size 5 kV 133% / 8 kV 100% | Cond. Size 8 kV 133%            | Cond. Size 15 kV 100%          | Cond. Size 15 kV 133%        |
|-----------|--------------|--------|-----------------------|----------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|------------------------------|
| 5621K     | 054007-12250 | 110 kV | 9.5" (241 mm)         | 0.32"-0.46" (8,1-11,7 mm)  | 8-4 AWG (10-16 mm²)            | 8-6 AWG (10-14 mm²)              | 8 AWG (10 mm²)                  | -                              | -                            |
| 5622K     | 054007-12251 | 110 kV | 9.5" (241 mm)         | 0.44"-0.65" (11,2-16,5 mm) | 2-2/0 AWG (35-60 mm²)          | 4-1/0 AWG (22-50 mm²)            | 6-1 AWG (14-38 mm²)             | -                              | -                            |
| 5623K     | 054007-12252 | 110 kV | 11.0" (279 mm)        | 0.56"-0.87" (14,2-22,1 mm) | 2/0 AWG-250 kcmil (70-120 mm²) | 1/0-4/0 AWG (60-100 mm²)         | 1-3/0 AWG (50-80 mm²)           | 4-2/0 AWG (22-60 mm²)          | 4-1 AWG (22-38 mm²)          |
| 5624K     | 054007-12254 | 110 kV | 11.0" (279 mm)        | 0.78"-1.30" (19,8-33,0 mm) | 300-750 kcmil (185-325 mm²)    | 250-750 kcmil (150-325 mm²)      | 4/0 AWG-600 kcmil (120-300 mm²) | 2/0 AWG-500 kcmil (70-250 mm²) | 1 AWG-350 kcmil (50-150 mm²) |
| 5625K     | 054007-12255 | 110 kV | 11.0" (279 mm)        | 1.09"-1.80" (27,7-45,7 mm) | 600-1500 kcmil (325-725 mm²)   | 600-1500 kcmil (325-725 mm²)     | 500-1250 kcmil (300-625 mm²)    | 500-1250 kcmil (300-625 mm²)   | 350-1000 kcmil (185-500 mm²) |

## 3M™ Cold Shrink QT-II Termination Kit 6020K Series for 15-25/28 kV

3M™ Cold Shrink QT-II Silicone Rubber Termination Kit 6020K Series provide easy installation for a broad spectrum of indoor and outdoor applications. The Cold Shrink QT-II termination is based on specially formulated, track-resistant silicone rubber insulators with built-in Hi-K stress relief. The insulators are prestretched around a spiral -wound, plastic core. When the terminator is slipped over a properly prepared cable and the core is removed, the terminator immediately shrinks to the cable's dimensions. The result is a void-free, flexible seal without special tools or torches. The kits are designed for terminating solid dielectric shielded power cable rated 15–25/28 kV, with tape shield, wire shield and UniShield® constructions.

Each kit has sufficient material to make 3 terminations. Lugs must be ordered separately.

|                        |                                             |
|------------------------|---------------------------------------------|
| Number of Conductors   | Single Conductor                            |
| Shielding Type         | Tape Shield, Wire Shield, UniShield®        |
| Indoor/Outdoor         | Indoor                                      |
| Breakout Boot          | No                                          |
| Insulation Rejacketing | No                                          |
| No. Skirts             | 0                                           |
| Voltage                | 15 kV, 25/28 kV                             |
| Packaging              | 1 kit per case (three terminations per kit) |



| Order No. | UPC          | BIL    | Max. Installed Length | Insulation O.D. Range      | Cable Jacket O.D.          | Cond. Size 15 kV 100%          | Cond. Size 15 kV 133%          | Cond. Size 25/28 kV          |
|-----------|--------------|--------|-----------------------|----------------------------|----------------------------|--------------------------------|--------------------------------|------------------------------|
| 6022K     | 054007-49934 | 125 kV | 21.8" (554 mm)        | 0.64"-0.90" (16,3-22,9 mm) | 0.80"-1.20" (20,3-30,5 mm) | 2-3/0 AWG (35-80 mm²)          | 4-2/0 AWG (22-60 mm²)          | 2-1 AWG (35-38 mm²)          |
| 6023K     | 054007-49935 | 125 kV | 21.8" (554 mm)        | 0.84"-1.33" (21,3-33,8 mm) | 1.00"-1.60" (25,4-40,6 mm) | 3/0 AWG-500 kcmil (95-250 mm²) | 2/0 AWG-350 kcmil (70-150 mm²) | 1 AWG-250 kcmil (38-125 mm²) |
| 6024K     | 054007-49936 | 125 kV | 21.8" (554 mm)        | 1.10"-1.65" (27,9-41,9 mm) | 1.30"-1.90" (33,0-48,3 mm) | 500-750 kcmil (300-325 mm²)    | 350-700 kcmil (180-325 mm²)    | 250-600 kcmil (125-300 mm²)  |
| 6025K     | 054007-49937 | 125 kV | 22.25" (565 mm)       | 1.30"-1.95" (33,0-49,5 mm) | 1.50"-2.40" (38,1-61,0 mm) | 750-1750 kcmil (400-850 mm²)   | 700-1500 kcmil (400-750 mm²)   | 600-1250 kcmil (325-625 mm²) |

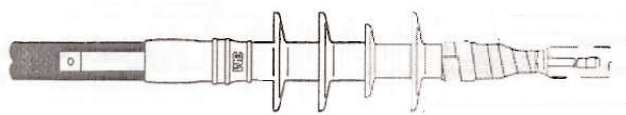
## Single Core Tape Shield, Wire Shield & UniShield® Cable, 5–46 kV: 3M™ Cold Shrink QT-II Terminations: Outdoor Skirted Kits

### 3M™ Cold Shrink QT-II Termination Kit 5630K Series – 4 Skirt, for 5-15 kV

The 3M™ Cold Shrink QT-II Outdoor Termination Kits 5630K Series are one-piece cold shrink terminations for tape shield, wire shield, and Unishield® power cables. They meet the requirements of IEEE Standard 48, for Class 1 terminations. The 3M QT-II termination consists of a high dielectric-constant (High-K) stress control tube insulated with a molded silicone skirted insulator. Each insulator design incorporates an extended base feature which when combined with mastic ensures a seal at the cable jacket end where the termination ground strap is brought out.

Each kit contains sufficient material to make 3 terminations. Lugs must be ordered separately.

|                               |                                             |
|-------------------------------|---------------------------------------------|
| <b>Number of Conductors</b>   | Single Conductor                            |
| <b>Shielding Type</b>         | Tape Shield, Wire Shield, UniShield®        |
| <b>Indoor/Outdoor</b>         | Outdoor                                     |
| <b>Breakout Boot</b>          | No                                          |
| <b>Insulation Rejacketing</b> | No                                          |
| <b>No. Skirts</b>             | 4                                           |
| <b>Voltage</b>                | 5 kV, 8 kV, 15 kV                           |
| <b>Packaging</b>              | 1 kit per case (three terminations per kit) |



| Order No. | UPC          | BIL    | Max. Installed Length | Insulation O.D. Range      | Cond. Size 5 kV 100%           | Cond. Size 5 kV 133% / 8 kV 100% | Cond. Size 8 kV 133%         | Cond. Size 15 kV 100%          | Cond. Size 15 kV 133%          |
|-----------|--------------|--------|-----------------------|----------------------------|--------------------------------|----------------------------------|------------------------------|--------------------------------|--------------------------------|
| 5632K     | 054007-49681 | 110 kV | 13.25" (337 mm)       | 0.33"-0.69" (8,4-17,5 mm)  | 8-2/0 AWG (10-60 mm²)          | 8-1/0 AWG (10-50 mm²)            | 8-1 AWG (10-38 mm²)          | 8-4 AWG (10-16 mm²)            | 8-6 AWG (10-14 mm²)            |
| 5633K     | 054007-12256 | 110 kV | 12.0" (305 mm)        | 0.64"-0.90" (16,3-22,9 mm) | 3/0 AWG-300 kcmil (95-150 mm²) | 2/0 AWG-250 kcmil (70-120 mm²)   | 1/0-4/0 AWG (60-100 mm²)     | 2-3/0 AWG (35-80 mm²)          | 4-1/0 AWG (22-50 mm²)          |
| 5635K     | 054007-12257 | 110 kV | 12.0" (305 mm)        | 0.84"-1.33" (21,3-33,8 mm) | 350-750 kcmil (185-325 mm²)    | 300-750 kcmil (185-325 mm²)      | 250-600 kcmil (150-300 mm²)  | 3/0 AWG-500 kcmil (95-250 mm²) | 2/0 AWG-350 kcmil (70-150 mm²) |
| 5636K     | 054007-12258 | 110 kV | 13.5" (343 mm)        | 1.10"-1.65" (27,9-41,9 mm) | 750-1500 kcmil (400-725 mm²)   | 750-1250 kcmil (400-625 mm²)     | 600-1000 kcmil (325-500 mm²) | 500-1000 kcmil (300-500 mm²)   | 350-750 kcmil (185-325 mm²)    |
| 5637K     | 054007-12259 | 110 kV | 13.75" (349 mm)       | 1.30"-1.95" (33,0-49,5 mm) | 1000-2000 kcmil (600-1000 mm²) | 1000-2000 kcmil (600-1000 mm²)   | 800-1750 kcmil (500-850 mm²) | 750-1750 kcmil (400-850 mm²)   | 600-1500 kcmil (325-725 mm²)   |

## Single Core Tape Shield, Wire Shield & UniShield® Cable, 5–46 kV: 3M™ Cold Shrink QT-II Terminations: Outdoor Skirted Kits

### 3M™ Cold Shrink QT-II Termination Kit 5690K Series – 6 Skirt, for 15-25/28 kV

3M™ Cold Shrink QT-II Silicone Rubber Termination Kit 5690K Series are one-piece cold shrink terminations for tape shield, wire shield and UniShield® power cables. They meet the requirements of IEEE Standard 48, for Class 1 terminations. The 3M QT-II termination consists of a high dielectric constant (High-K) stress control tube insulated with a molded silicone skirted insulator.

Each kit contains sufficient material to make three terminations. Lugs must be ordered separately.

|                               |                                             |
|-------------------------------|---------------------------------------------|
| <b>Number of Conductors</b>   | Single Conductor                            |
| <b>Shielding Type</b>         | Tape Shield, Wire Shield, UniShield®        |
| <b>Indoor/Outdoor</b>         | Outdoor                                     |
| <b>Breakout Boot</b>          | No                                          |
| <b>Insulation Rejacketing</b> | No                                          |
| <b>No. Skirts</b>             | 6                                           |
| <b>Voltage</b>                | 15 kV, 25/28 kV                             |
| <b>Packaging</b>              | 1 kit per case (three terminations per kit) |



| Order No. | UPC          | BIL    | Max. Installed Length<br>A: Tape & Wire Shield<br>B: UniShield® | Insulation O.D.<br>Range      | Cable Jacket O.D.             | Conductor<br>Size 15 kV<br>100%      | Conductor<br>Size 15 kV<br>133%      | Conductor<br>Size 25/28<br>kV        |
|-----------|--------------|--------|-----------------------------------------------------------------|-------------------------------|-------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| 5691K     | 054007-49395 | 150 kV | 15.0" (381 mm)<br>14.5" (368 mm)                                | 0.64"-0.90"<br>(16,3-22,9 mm) | 0.80"-1.20"<br>(20,3-30,5 mm) | 2-3/0 AWG<br>(35-80 mm²)             | 2-1/0 AWG<br>(35-50 mm²)             | 2-1 AWG<br>(35-38 mm²)               |
| 5692K     | 054007-49396 | 150 kV | 15.0" (381 mm)<br>14.5" (368 mm)                                | 0.84"-1.33"<br>(21,3-33,8 mm) | 1.00"-1.60"<br>(25,4-40,6 mm) | 3/0 AWG-400<br>kcmil<br>(95-200 mm²) | 2/0 AWG-350<br>kcmil<br>(70-150 mm²) | 1/0 AWG-250<br>kcmil<br>(60-120 mm²) |
| 5693K     | 054007-49397 | 150 kV | 16.5" (419 mm)<br>16.0" (406 mm)                                | 1.10"-1.65"<br>(27,9-41,9 mm) | 1.30"-1.90"<br>(33,0-48,3 mm) | 500-750<br>kcmil<br>(300-325 mm²)    | 400-750<br>kcmil<br>(240-325 mm²)    | 300-500<br>kcmil<br>(185-250 mm²)    |
| 5694K     | 054007-49398 | 150 kV | 16.75" (425 mm)<br>16.25" (413 mm)                              | 1.30"-1.95"<br>(33,0-49,5 mm) | 1.50"-2.40"<br>(38,1-61,0 mm) | 800-1750<br>kcmil<br>(500-850 mm²)   | 800-1500<br>kcmil<br>(500-725 mm²)   | 600-1250<br>kcmil<br>(325-625 mm²)   |

## Single Core Tape Shield, Wire Shield & UniShield® Cable, 5–46 kV: 3M™ Cold Shrink QT-II Terminations: Outdoor Skirted Kits

### 3M™ Cold Shrink QT-II Termination Kit 5690K Series – 8 Skirt, for 15-35 kV

3M™ Cold Shrink QT-II Silicone Rubber Termination Kits 5690K are one-piece cold shrink terminations for tape shield, wire shield and UniShield® power cables. They meet the requirements of IEEE Standard 48, for Class 1 terminations. The 3M QT-II termination consists of a high dielectric constant (High-K) stress control tube insulated with a molded silicone skirted insulator.

Each kit contains sufficient material to make three terminations. Lugs must be ordered separately.

|                               |                                             |
|-------------------------------|---------------------------------------------|
| <b>Number of Conductors</b>   | Single Conductor                            |
| <b>Shielding Type</b>         | Tape Shield, Wire Shield, UniShield®        |
| <b>Indoor/Outdoor</b>         | Outdoor                                     |
| <b>Breakout Boot</b>          | No                                          |
| <b>Insulation Rejacketing</b> | No                                          |
| <b>No. Skirts</b>             | 8                                           |
| <b>Voltage</b>                | 15 kV, 25/28 kV, 35 kV                      |
| <b>Packaging</b>              | 1 kit per case (three terminations per kit) |



| Order No. | UPC          | BIL    | Max. Installed Length<br>A: Tape & Wire Shield<br>B: UniShield® | Insulation<br>O.D. Range      | Cable Jacket<br>O.D.          | Conductor<br>Size 15 kV<br>100%      | Conductor<br>Size 15 kV<br>133%      | Conductor<br>Size 25/28<br>kV        | Conductor Size<br>35 kV               |
|-----------|--------------|--------|-----------------------------------------------------------------|-------------------------------|-------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|
| 5696K     | 054007-49399 | 200 kV | 19.5" (495 mm)<br>19.0" (483 mm)                                | 0.84"-1.33"<br>(21,3-33,8 mm) | 1.00"-1.60"<br>(25,4-40,6 mm) | 3/0 AWG-400<br>kcmil<br>(95-200 mm²) | 2/0 AWG-350<br>kcmil<br>(70-150 mm²) | 1/0 AWG-250<br>kcmil<br>(60-120 mm²) | 2-3/0 AWG<br>(35-80 mm²)              |
| 5697K     | 054007-49400 | 200 kV | 21.5" (546 mm)<br>21.0" (533 mm)                                | 1.10"-1.65"<br>(27,9-41,9 mm) | 1.30"-1.90"<br>(33,0-48,2 mm) | 500-750<br>kcmil<br>(300-325 mm²)    | 400-750<br>kcmil<br>(240-325 mm²)    | 300-500<br>kcmil<br>(185-250 mm²)    | 4/0 AWG-400<br>kcmil<br>(120-200 mm²) |
| 5698K     | 054007-49401 | 200 kV | 21.75" (552 mm)<br>21.25" (540 mm)                              | 1.30"-1.95"<br>(33,0-49,5 mm) | 1.50"-2.40"<br>(38,1-61,0 mm) | 800-1750<br>kcmil<br>(500-850 mm²)   | 800-1500<br>kcmil<br>(500-725 mm²)   | 600-1250<br>kcmil<br>(325-625 mm²)   | 500-1000 kcmil<br>(300-500 mm²)       |

## Single Core Tape Shield, Wire Shield & UniShield® Cable, 5–46 kV: 3M™ Cold Shrink QT-II Terminations: Outdoor Skirted Kits

### 3M™ Cold Shrink QT-II Termination Kit QT-II 4604 & 4605 Series for 46 kV

3M™ Cold Shrink QT-II Silicone Rubber Termination Kit 4604 and 4605 are three-piece cold shrink terminations for tape shield, wire shield and longitudinally corrugated (LC) power cables. They meet the requirements of IEEE Standard 48, for Class 1 terminations. The 3M QT-II termination consists of a high dielectric constant (High-K) stress control tube insulated with a molded silicone skirted insulator. The 4600-series termination is a twelve-skirt design incorporating a one-piece base termination assembly, a four-skirt extension insulator, and a silicone rubber jacket-sealing cold shrink tube assembly.

Each kit contains sufficient material to make one termination. Lugs must be ordered separately.

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| <b>Number of Conductors</b>   | Single Conductor                                         |
| <b>Shielding Type</b>         | Tape Shield, Wire Shield, Longitudinally Corrugated (LC) |
| <b>Indoor/Outdoor</b>         | Outdoor                                                  |
| <b>Breakout Boot</b>          | No                                                       |
| <b>Insulation Rejacketing</b> | No                                                       |
| <b>No. Skirts</b>             | 12                                                       |
| <b>Voltage</b>                | 46 kV                                                    |
| <b>Packaging</b>              | 1 kit per case (one termination per kit)                 |



| Order No. | UPC          | BIL    | Max. Installed Length | Creepage Distance | Arcing Distance   | Insulation O.D. Range         | Conductor Size                     |
|-----------|--------------|--------|-----------------------|-------------------|-------------------|-------------------------------|------------------------------------|
| 4604      | 054007-50192 | 250 kV | 28.0"<br>(711 mm)     | 46.0"<br>(1,17 m) | 30.0"<br>(762 mm) | 1.31"-2.10"<br>(33,2-53,4 mm) | 4/0 AWG-600 kcmil<br>(120-300 mm²) |
| 4605      | 054007-50193 | 250 kV | 28.0"<br>(711 mm)     | 46.0"<br>(1,17 m) | 30.0"<br>(762 mm) | 1.80"-2.60"<br>(45,7-66,1 mm) | 600-1500 kcmil<br>(325-725 mm²)    |

# 3M™ Medium Voltage Terminations for Three Core Tape Shield, Wire Shield and UniShield® Cable, 5 kV – 35 kV

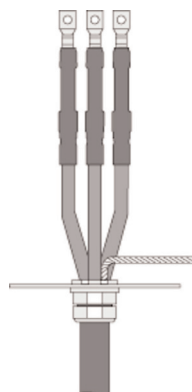
| Section                                                                                             | Page    |
|-----------------------------------------------------------------------------------------------------|---------|
| Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV....                                 | 273-287 |
| 3M™ Cold Shrink QT-III Terminations .....                                                           | 273-287 |
| Indoor Kits .....                                                                                   | 273-278 |
| 3M™ Cold Shrink QT-III Termination Kit 7600-T-3-RJS Series for 5-35 kV.....                         | 273-274 |
| 3M™ Cold Shrink QT-III Termination Kit 7600-T-3G Series for 5-35 kV .....                           | 275-276 |
| 3M™ Cold Shrink QT-III Termination Kit 7600-T-3W Series for 5-35 kV .....                           | 277-278 |
| Outdoor Skirted Kits .....                                                                          | 279-287 |
| 3M™ Cold Shrink QT-III Termination Kit 7600-S-3W Series for 5-35 kV.....                            | 279-280 |
| 3M™ Cold Shrink QT-III Termination Kit 7600-S-3G Series for 5-35 kV .....                           | 281-282 |
| 3M™ Cold Shrink QT-III Termination Kit 7600-S-3RJS Series for 5-35 kV.....                          | 283-284 |
| 3M™ Cold Shrink QT-III Inverted Termination Kit 7600-S-INV-3W Series - 4 Skirt, for 5-25/28 kV..... | 285     |
| 3M™ Cold Shrink QT-III Inverted Termination Kit 7600-S-INV-3RJS Series for 5-25/28 kV .....         | 286     |
| 3M™ Cold Shrink QT-III Inverted Termination Kit 7600-S-4-INV-3G Series for 5-25 kV .....            | 287     |

## 3M™ Cold Shrink QT-III Termination Kit 7600-T-3-RJS Series for 5-35 kV

3M™ Cold Shrink QT-III Termination Kit 7600-T-3-RJS Series are designed for cabinet-mount installations and can be used on cables with, or without, internal ground wires. Each termination kit has all of the materials required to make one 3-conductor termination. Lugs must be ordered separately.

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

|                               |                                                                     |
|-------------------------------|---------------------------------------------------------------------|
| <b>Number of Conductors</b>   | Three Conductor                                                     |
| <b>Shielding Type</b>         | Tape Shield (Armored or Unarmored),<br>Wire Shield*, UniShield®*    |
| <b>Indoor/Outdoor</b>         | Indoor                                                              |
| <b>Breakout Boot</b>          | No                                                                  |
| <b>Insulation Rejacketing</b> | Yes                                                                 |
| <b>No. Skirts</b>             | 0                                                                   |
| <b>Voltage</b>                | 3.3 kV, 5 kV, 6.6 kV, 8 kV, 10 kV, 15 kV,<br>20 kV, 25/28 kV, 35 kV |
| <b>Packaging</b>              | 1 kit per case (one three-phase termination per kit)                |



|                                        | 7620-T-95-3-RJS            | 7621-T-95-3-RJS            | 7623-T-95-3-RJS             | 7624-T-95-3-RJS             |
|----------------------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|
| UPC                                    | 054007-04810               | 054007-04586               | 054007-04707                | 054007-04708                |
| BIL                                    | 95 kV                      | 95 kV                      | 95 kV                       | 95 kV                       |
| Max. Installed Length                  | 8.5" (216 mm)              | 8.5" (216 mm)              | 8.5" (216 mm)               | 8.5" (216 mm)               |
| Insulation O.D. Range                  | 0.33"-0.50" (8,4-12,7 mm)  | 0.50"-0.70" (12,7-17,8 mm) | 0.70"-0.92" (17,8-23,4 mm)  | 0.92"-1.18" (23,4-30,0 mm)  |
| Conductor Size 3.3 kV 100% - IEC (JIS) | 16-35 mm² (8-22 mm²)       | 50-95 mm² (38-60 mm²)      | 120-185 mm² (100-150 mm²)   | 240-300 mm² (200-250 mm²)   |
| Conductor Size 5.0 kV 100% - AEIC      | 8-2 AWG                    | 1-3/0 AWG                  | 4/0 AWG-400 kcmil           | 500-750 kcmil               |
| Conductor Size 6.6 kV 100% - IEC (JIS) | 16-25 mm² ( - )            | 35-70 mm² ( - )            | 95-150 mm² ( - )            | 185-300 mm² ( - )           |
| Conductor Size 8 kV 100% - AEIC        | 6-4 AWG                    | 2-2/0 AWG                  | 3/0 AWG-350 kcmil           | 400-600 kcmil               |
| Conductor Size 10 kV 100% - IEC        | -                          | 10-50 mm²                  | 70-150 mm²                  | 185-300 mm²                 |
| Conductor Size 15 kV 100% - IEC (AEIC) | - ( - )                    | 16-25 mm² ( - )            | 35-95 mm² ( - )             | 120-185 mm² ( - )           |
| Conductor Size 20 kV 100% - IEC        | -                          | -                          | -                           | -                           |
| Conductor Size 25/28 kV 100% - AEIC    | -                          | -                          | -                           | -                           |
| Conductor Size 35 kV 100% - AEIC       | -                          | -                          | -                           | -                           |
|                                        | 7621-T-110-3-RJS           | 7622-T-110-3-RJS           | 7624-T-110-3-RJS            | 7625-T-110-3-RJS            |
| UPC                                    | 054007-04710               | 054007-04711               | 054007-04712                | 054007-04713                |
| BIL                                    | 110 kV                     | 110 kV                     | 110 kV                      | 110 kV                      |
| Max. Installed Length                  | 12.0" (305 mm)             | 12.0" (305 mm)             | 12.0" (305 mm)              | 12.0" (305 mm)              |
| Insulation O.D. Range                  | 0.50"-0.70" (12,7-17,8 mm) | 0.70"-0.92" (17,8-23,4 mm) | 0.92"-1.18" (23,4-30,0 mm)  | 1.18"-1.52" (30,0-38,6 mm)  |
| Conductor Size 3.3 kV 100% - IEC (JIS) | 50-95 mm² (38-60 mm²)      | 120-185 mm² (100-150 mm²)  | 240-300 mm² (200-250 mm²)   | - (300-325 mm²)             |
| Conductor Size 5.0 kV 100% - AEIC      | 1-3/0 AWG                  | 4/0 AWG-400 kcmil          | 500-750 kcmil               | 800-1000 kcmil              |
| Conductor Size 6.6 kV 100% - IEC (JIS) | 35-70 mm² (14-38 mm²)      | 95-150 mm² (60-100 mm²)    | 185-300 mm² (150-250 mm²)   | - (300-325 mm²)             |
| Conductor Size 8 kV 100% - AEIC        | 2-2/0 AWG                  | 3/0 AWG-350 kcmil          | 400-600 kcmil               | 750-1000 kcmil              |
| Conductor Size 10 kV 100% - IEC        | 10-50 mm²                  | 70-150 mm²                 | 185-300 mm²                 | -                           |
| Conductor Size 15 kV 100% - IEC (AEIC) | 16-25 mm² (2-1 AWG)        | 35-95 mm² (1/0-4/0 AWG)    | 120-185 mm² (250-450 kcmil) | 200-325 mm² (500-750 kcmil) |
| Conductor Size 20 kV 100% - IEC        | -                          | -                          | -                           | -                           |
| Conductor Size 25/28 kV 100% - AEIC    | -                          | -                          | -                           | -                           |
| Conductor Size 35 kV 100% - AEIC       | -                          | -                          | -                           | -                           |

## 3M™ Cold Shrink QT-III Termination Kit 7600-T-3-RJS Series for 5-35 kV (continued)

|                                        | 7622-T-125-3-RJS                                   | 7624-T-125-3-RJS                                   | 7625-T-125-3-RJS                        | 7693-T-150-3-RJS                                   |
|----------------------------------------|----------------------------------------------------|----------------------------------------------------|-----------------------------------------|----------------------------------------------------|
| UPC                                    | 054007-04714                                       | 054007-04715                                       | 054007-04716                            | 054007-04717                                       |
| BIL                                    | 125 kV                                             | 125 kV                                             | 125 kV                                  | 150 kV                                             |
| Max. Installed Length                  | 10.5" (267 mm)                                     | 10.5" (267 mm)                                     | 10.5" (267 mm)                          | 16.0" (406 mm)                                     |
| Insulation O.D. Range                  | 0.70"-0.92" (17,8-23,4 mm)                         | 0.92"-1.18" (23,4-30,0 mm)                         | 1.18"-1.52" (30,0-38,6 mm)              | 0.70"-0.92" (17,8-23,4 mm)                         |
| Conductor Size 3.3 kV 100% - IEC (JIS) | 120-185 mm <sup>2</sup> (100-150 mm <sup>2</sup> ) | 240-300 mm <sup>2</sup> (200-250 mm <sup>2</sup> ) | - (300-325 mm <sup>2</sup> )            | 120-185 mm <sup>2</sup> (100-150 mm <sup>2</sup> ) |
| Conductor Size 5.0 kV 100% - AEIC      | 4/0 AWG-400 kcmil                                  | 500-750 kcmil                                      | 800-1000 kcmil                          | 4/0 AWG-400 kcmil                                  |
| Conductor Size 6.6 kV 100% - IEC (JIS) | 95-150 mm <sup>2</sup> (60-100 mm <sup>2</sup> )   | 185-300 mm <sup>2</sup> (150-250 mm <sup>2</sup> ) | - (300-325 mm <sup>2</sup> )            | 95-150 mm <sup>2</sup> (60-100 mm <sup>2</sup> )   |
| Conductor Size 8 kV 100% - AEIC        | 3/0 AWG-350 kcmil                                  | 400-600 kcmil                                      | 750-1000 kcmil                          | 3/0 AWG-350 kcmil                                  |
| Conductor Size 10 kV 100% - IEC        | 70-150 mm <sup>2</sup>                             | 185-300 mm <sup>2</sup>                            | -                                       | 70-150 mm <sup>2</sup>                             |
| Conductor Size 15 kV 100% - IEC (AEIC) | 35-95 mm <sup>2</sup> (1/0-4/0 AWG)                | 120-185 mm <sup>2</sup> (250-450 kcmil)            | 200-325 mm <sup>2</sup> (500-750 kcmil) | 35-95 mm <sup>2</sup> (1/0-4/0 AWG)                |
| Conductor Size 20 kV 100% - IEC        | 25-70 mm <sup>2</sup>                              | 95-185 mm <sup>2</sup>                             | 240-300 mm <sup>2</sup>                 | 25-70 mm <sup>2</sup>                              |
| Conductor Size 25/28 kV 100% - AEIC    | -                                                  | -                                                  | -                                       | 2-1/0 AWG                                          |
| Conductor Size 35 kV 100% - AEIC       | -                                                  | -                                                  | -                                       | -                                                  |
|                                        | 7694-T-150-3-RJS                                   | 7695-T-150-3-RJS                                   | 7696-T-150-3-RJS                        |                                                    |
| UPC                                    | 054007-04718                                       | 054007-04719                                       | 051128-59533                            |                                                    |
| BIL                                    | 150 kV                                             | 150 kV                                             | 150 kV                                  |                                                    |
| Max. Installed Length                  | 16.0" (406 mm)                                     | 16.0" (406 mm)                                     | 16.0" (406 mm)                          |                                                    |
| Insulation O.D. Range                  | 0.92"-1.18" (23,4-30,0 mm)                         | 1.18"-1.52" (30,0-38,6 mm)                         | 1.53"-1.81" (38,4-46,0 mm)              |                                                    |
| Conductor Size 3.3 kV 100% - IEC (JIS) | 240-300 mm <sup>2</sup> (200-250 mm <sup>2</sup> ) | - (300-325 mm <sup>2</sup> )                       | -                                       |                                                    |
| Conductor Size 5.0 kV 100% - AEIC      | 500-750 kcmil                                      | 800-1000 kcmil                                     | -                                       |                                                    |
| Conductor Size 6.6 kV 100% - IEC (JIS) | 185-300 mm <sup>2</sup> (150-250 mm <sup>2</sup> ) | - (300-325 mm <sup>2</sup> )                       | -                                       |                                                    |
| Conductor Size 8 kV 100% - AEIC        | 400-600 kcmil                                      | 750-1000 kcmil                                     | -                                       |                                                    |
| Conductor Size 10 kV 100% - IEC        | 185-300 mm <sup>2</sup>                            | -                                                  | -                                       |                                                    |
| Conductor Size 15 kV 100% - IEC (AEIC) | 120-185 mm <sup>2</sup> (250-450 kcmil)            | 200-325 mm <sup>2</sup> (500-750 kcmil)            | -                                       |                                                    |
| Conductor Size 20 kV 100% - IEC        | 95-185 mm <sup>2</sup>                             | 240-300 mm <sup>2</sup>                            | -                                       |                                                    |
| Conductor Size 25/28 kV 100% - AEIC    | 2/0 AWG-250 kcmil                                  | 300-500 kcmil                                      | 750 kcmil                               |                                                    |
| Conductor Size 35 kV 100% - AEIC       | 1/0-3/0 AWG                                        | 4/0 AWG-500 kcmil                                  | 500-750 kcmil                           |                                                    |

## Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Indoor Kits

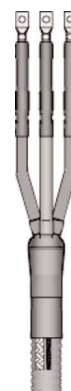
### 3M™ Cold Shrink QT-III Termination Kit 7600-T-3G Series for 5-35 kV

3M™ Cold Shrink QT-III Silicone Rubber Three-Conductor Cable Termination Kits 7600-T-3G Series are designed to accommodate medium voltage 3/C shielded power cables rated up to 35 kV. They are designed for cables with internal ground wires for indoor applications. Each termination kit is supplied with all the materials required for terminating one three conductor cable. All main termination components are produced from color-matched dark gray silicone rubber.

Each kit has the necessary materials to make one 3-conductor termination. Lugs need to be ordered separately.

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

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| Number of Conductors   | Three Conductor                                                  |
| Shielding Type         | Tape Shield (Armored or Unarmored),<br>Wire Shield*, UniShield®* |
| Indoor/Outdoor         | Indoor                                                           |
| Breakout Boot          | Yes                                                              |
| Insulation Rejacketing | Yes                                                              |
| No. Skirts             | 0                                                                |
| Voltage                | 5 kV, 8 kV, 15 kV, 25/28 kV, 35 kV                               |
| Packaging              | 1 kit per case (one three-phase termination per kit)             |



| Order No.     | UPC          | BIL    | Max. Installed Length | Insul. O.D. Range          | Max. Cable O.D.  | Cond. Size 5 kV 100% (133%)           | Cond. Size 8 kV 100% (133%)           | Cond. Size 15 kV 100% (133%)      | Cond. Size 25/28 kV 100% (133%) | Cond. Size 35 kV 100% (133%) |
|---------------|--------------|--------|-----------------------|----------------------------|------------------|---------------------------------------|---------------------------------------|-----------------------------------|---------------------------------|------------------------------|
| 7620-T-95-3G  | 054007-43664 | 95 kV  | 8.5" (216 mm)         | 0.33"-0.50" (8,4-12,7 mm)  | 2.20" (55,9 mm)  | 8-2 AWG (6-4 AWG)                     | 6-4 AWG (6-4 AWG)                     | -                                 | -                               | -                            |
| 7621-T-95-3G  | 054007-43665 | 95 kV  | 8.5" (216 mm)         | 0.50"-0.70" (12,7-17,8 mm) | 2.80" (71,1 mm)  | 1-3/0 AWG (2-2/0 AWG)                 | 2-2/0 AWG (2-2/0 AWG)                 | -                                 | -                               | -                            |
| 7623-T-95-3G  | 054007-43666 | 95 kV  | 8.5" (216 mm)         | 0.70"-0.92" (17,8-23,4 mm) | 3.30" (83,8 mm)  | 4/0 AWG-350 kcmil (3/0 AWG-350 kcmil) | 3/0 AWG-350 kcmil (3/0 AWG-350 kcmil) | -                                 | -                               | -                            |
| 7624-T-95-3G  | 054007-43667 | 95 kV  | 8.5" (216 mm)         | 0.92"-1.18" (23,4-30,0 mm) | 3.90" (99,1 mm)  | 400-500 kcmil (400-500 kcmil)         | 400-500 kcmil (400-500 kcmil)         | -                                 | -                               | -                            |
| 7625-T-95-3G  | 054007-43668 | 95 kV  | 8.5" (216 mm)         | 1.18"-1.52" (30,0-38,4 mm) | 4.50" (114,3 mm) | 700-1000 kcmil (700-1000 kcmil)       | 700-1000 kcmil (700-1000 kcmil)       | -                                 | -                               | -                            |
| 7621-T-110-3G | 054007-43669 | 110 kV | 12.0" (305 mm)        | 0.50"-0.70" (12,7-17,8 mm) | 2.80" (71,1 mm)  | 1-3/0 AWG (2-2/0 AWG)                 | 2-2/0 AWG (2-2/0 AWG)                 | 2-1 AWG (-)                       | -                               | -                            |
| 7622-T-110-3G | 054007-43670 | 110 kV | 12.0" (305 mm)        | 0.70"-0.92" (17,8-23,4 mm) | 3.30" (83,8 mm)  | 4/0 AWG-350 kcmil (3/0 AWG-350 kcmil) | 3/0 AWG-350 kcmil (3/0 AWG-350 kcmil) | 1/0-4/0 AWG (2-3/0 AWG)           | -                               | -                            |
| 7624-T-110-3G | 054007-43671 | 110 kV | 12.0" (305 mm)        | 0.92"-1.18" (23,4-30,0 mm) | 3.90" (99,1 mm)  | 400-500 kcmil (400-500 kcmil)         | 400-500 kcmil (400-500 kcmil)         | 250-350 kcmil (4/0 AWG-350 kcmil) | -                               | -                            |
| 7625-T-110-3G | 054007-43673 | 110 kV | 12.0" (305 mm)        | 1.18"-1.52" (30,0-38,4 mm) | 4.50" (114,3 mm) | 700-1000 kcmil (700-1000 kcmil)       | 700-1000 kcmil (700-1000 kcmil)       | 500-750 kcmil (500-750 kcmil)     | -                               | -                            |

## 3M™ Cold Shrink QT-III Termination Kit 7600-T-3G Series for 5-35 kV (continued)

| Order No.     | UPC          | BIL    | Max. Installed Length | Insul. O.D. Range          | Max. Cable O.D.  | Cond. Size 5 kV 100% (133%)           | Cond. Size 8 kV 100% (133%)           | Cond. Size 15 kV 100% (133%)      | Cond. Size 25/28 kV 100% (133%) | Cond. Size 35 kV 100% (133%)          |
|---------------|--------------|--------|-----------------------|----------------------------|------------------|---------------------------------------|---------------------------------------|-----------------------------------|---------------------------------|---------------------------------------|
| 7693-T-150-3G | 054007-43674 | 150 kV | 16.0" (406 mm)        | 0.70"-0.92" (17,8-23,4 mm) | 3.30" (83,8 mm)  | 4/0 AWG-350 kcmil (3/0 AWG-350 kcmil) | 3/0 AWG-350 kcmil (3/0 AWG-350 kcmil) | 1/0-4/0 AWG (2-3/0 AWG)           | 1-1/0 AWG ( - )                 | -                                     |
| 7694-T-150-3G | 054007-43676 | 150 kV | 16.0" (406 mm)        | 0.92"-1.18" (23,4-30,0 mm) | 3.90" (99,1 mm)  | 400-500 kcmil (400-500 kcmil)         | 400-500 kcmil (400-500 kcmil)         | 250-350 kcmil (4/0 AWG-350 kcmil) | 2/0 AWG-250 kcmil (1-4/0 AWG)   | 1/0-3/0 AWG ( - )                     |
| 7695-T-150-3G | 054007-43675 | 150 kV | 16.0" (406 mm)        | 1.18"-1.52" (30,0-38,4 mm) | 4.50" (114,3 mm) | 700-1000 kcmil (700-1000 kcmil)       | 700-1000 kcmil (700-1000 kcmil)       | 500-750 kcmil (500-750 kcmil)     | 350-500 kcmil (250-500 kcmil)   | 4/0 AWG-500 kcmil (1/0 AWG-350 kcmil) |
| 7696-T-150-3G | 051128-59532 | 150 kV | 16.0" (406 mm)        | 1.53"-1.81" (38,8-46,0 mm) | 5.40" (137,2 mm) | -                                     | -                                     | - (1000 kcmil)                    | 750 kcmil (500-750 kcmil)       | 500-750 kcmil (350-750 kcmil)         |

## 3M™ Cold Shrink QT-III Termination Kit 7600-T-3W Series for 5-35 kV

3M™ Cold Shrink QT-III Silicone Rubber Three-Conductor Cable Termination Kit 7600-T-3W Series is designed to accommodate medium-voltage 3/C shielded power cables without ground wires. Each termination kit is supplied with all the materials required for terminating one 3/C cable. Terminal and lugs must be ordered separately.

The one-piece, skirted silicone rubber terminations come with factory-applied, pre-positioned Hi-K stress control layers underneath the insulator. Its short installed length is excellent for installations in limited spaces, such as those with motors, starters, switchgear, variable speed drives, transformers and similar connections – often reducing the need to add auxiliary boxes. Kits are designed for a range of cable types including tape shield, wire shield and UniShield® constructions.

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

|                               |                                                                     |
|-------------------------------|---------------------------------------------------------------------|
| <b>Number of Conductors</b>   | Three Conductor                                                     |
| <b>Shielding Type</b>         | Tape Shield (Armored or Unarmored),<br>Wire Shield*, UniShield®*    |
| <b>Indoor/Outdoor</b>         | Indoor                                                              |
| <b>Breakout Boot</b>          | Yes                                                                 |
| <b>Insulation Rejacketing</b> | Yes                                                                 |
| <b>No. Skirts</b>             | 0                                                                   |
| <b>Voltage</b>                | 3.3 kV, 5 kV, 6.6 kV, 8 kV, 10 kV, 15 kV,<br>20 kV, 25/28 kV, 35 kV |
| <b>Packaging</b>              | 1 kit per case (one three-phase termination per kit)                |



|                                 | 7620-T-95-3W                                  | 7621-T-95-3W                                   | 7623-T-95-3W                                       | 7624-T-95-3W                                       |
|---------------------------------|-----------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| UPC                             | 054007-04731                                  | 054007-04732                                   | 054007-04733                                       | 054007-04734                                       |
| BIL                             | 95 kV                                         | 95 kV                                          | 95 kV                                              | 95 kV                                              |
| Max. Installed Length           | 8.5" (216 mm)                                 | 8.5" (216 mm)                                  | 8.5" (216 mm)                                      | 8.5" (216 mm)                                      |
| Insulation O.D. Range           | 0.33"-0.50" (8,4-12,7 mm)                     | 0.50"-0.70" (12,7-17,8 mm)                     | 0.70"-0.92" (17,8-23,4 mm)                         | 0.92"-1.18" (23,4-30,0 mm)                         |
| Conductor Size 3.3 kV IEC (JIS) | 16-35 mm <sup>2</sup> (8-22 mm <sup>2</sup> ) | 50-95 mm <sup>2</sup> (38-60 mm <sup>2</sup> ) | 120-185 mm <sup>2</sup> (100-150 mm <sup>2</sup> ) | 240-300 mm <sup>2</sup> (200-250 mm <sup>2</sup> ) |
| Conductor Size 5.0 kV AEIC      | 8-2 AWG                                       | 1-3/0 AWG                                      | 4/0 AWG-400 kcmil                                  | 500-750 kcmil                                      |
| Conductor Size 6.6 kV IEC (JIS) | - (16-25 mm <sup>2</sup> )                    | - (35-70 mm <sup>2</sup> )                     | - (95-150 mm <sup>2</sup> )                        | - (185-300 mm <sup>2</sup> )                       |
| Conductor Size 8 kV AEIC        | 6-4 AWG                                       | 2-2/0 AWG                                      | 3/0 AWG-350 kcmil                                  | 400-600 kcmil                                      |
| Conductor Size 10 kV IEC        | -                                             | 10-50 mm <sup>2</sup>                          | 70-150 mm <sup>2</sup>                             | 185-300 mm <sup>2</sup>                            |
| Conductor Size 15 kV IEC (AEIC) | -                                             | 16-25 mm <sup>2</sup> ( - )                    | 35-95 mm <sup>2</sup> ( - )                        | 120-185 mm <sup>2</sup> ( - )                      |
| Conductor Size 20 kV IEC        | -                                             | -                                              | -                                                  | -                                                  |
| Conductor Size 25/28 kV AEIC    | -                                             | -                                              | -                                                  | -                                                  |
| Conductor Size 35 kV AEIC       | -                                             | -                                              | -                                                  | -                                                  |
|                                 | 7625-T-95-3W                                  | 7621-T-110-3W                                  | 7622-T-110-3W                                      | 7624-T-110-3W                                      |
| UPC                             | 054007-04735                                  | 054007-04736                                   | 054007-04737                                       | 054007-04738                                       |
| BIL                             | 95 kV                                         | 110 kV                                         | 110 kV                                             | 110 kV                                             |
| Max. Installed Length           | 8.5" (216 mm)                                 | 12.0" (305 mm)                                 | 12.0" (305 mm)                                     | 12.0" (305 mm)                                     |
| Insulation O.D. Range           | 1.18"-1.52" (30,0-38,6 mm)                    | 0.50"-0.70" (12,7-17,8 mm)                     | 0.70"-0.92" (17,8-23,4 mm)                         | 0.92"-1.18" (23,4-30,0 mm)                         |
| Conductor Size 3.3 kV IEC (JIS) | - (300-325 mm <sup>2</sup> )                  | 50-95 mm <sup>2</sup> (38-60 mm <sup>2</sup> ) | 120-185 mm <sup>2</sup> (100-150 mm <sup>2</sup> ) | 240-300 mm <sup>2</sup> (200-250 mm <sup>2</sup> ) |
| Conductor Size 5.0 kV AEIC      | 800-1000 kcmil                                | 1-3/0 AWG                                      | 4/0 AWG-400 kcmil                                  | 500-750 kcmil                                      |
| Conductor Size 6.6 kV IEC (JIS) | -                                             | 14-38 mm <sup>2</sup> (35-70 mm <sup>2</sup> ) | 60-100 mm <sup>2</sup> (95-150 mm <sup>2</sup> )   | 150-250 mm <sup>2</sup> (185-300 mm <sup>2</sup> ) |
| Conductor Size 8 kV AEIC        | 750-1000 kcmil                                | 2-2/0 AWG                                      | 3/0 AWG-350 kcmil                                  | 400-600 kcmil                                      |
| Conductor Size 10 kV IEC        | -                                             | 10-50 mm <sup>2</sup>                          | 70-150 mm <sup>2</sup>                             | 185-300 mm <sup>2</sup>                            |
| Conductor Size 15 kV IEC (AEIC) | 200-325 mm <sup>2</sup> ( - )                 | 16-25 mm <sup>2</sup> (2-1 AWG)                | 35-95 mm <sup>2</sup> (1/0-4/0 AWG)                | 120-185 mm <sup>2</sup> (250-450 kcmil)            |
| Conductor Size 20 kV IEC        | -                                             | -                                              | -                                                  | -                                                  |
| Conductor Size 25/28 kV AEIC    | -                                             | -                                              | -                                                  | -                                                  |
| Conductor Size 35 kV AEIC       | -                                             | -                                              | -                                                  | -                                                  |

Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Indoor Kits

## 3M™ Cold Shrink QT-III Termination Kit 7600-T-3W Series for 5-35 kV (continued)

|                                 | 7625-T-110-3W                           | 7625-T-125-3W                           | 7693-T-150-3W                                      | 7694-T-150-3W                                      |
|---------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------------------|----------------------------------------------------|
| UPC                             | 054007-04739                            | 054007-04742                            | 054007-04743                                       | 054007-04744                                       |
| BIL                             | 110 kV                                  | 125 kV                                  | 150 kV                                             | 150 kV                                             |
| Max. Installed Length           | 12.0" (305 mm)                          | 10.5" (267 mm)                          | 16.00" (406 mm)                                    | 16.00" (406 mm)                                    |
| Insulation O.D. Range           | 1.18"-1.52" (30,0-38,6 mm)              | 1.18"-1.52" (30,0-38,6 mm)              | 0.70"-0.92" (17,8-23,4 mm)                         | 0.92"-1.18" (23,4-30,0 mm)                         |
| Conductor Size 3.3 kV IEC (JIS) | - (300-325 mm <sup>2</sup> )            | - (300-325 mm <sup>2</sup> )            | 120-185 mm <sup>2</sup> (100–150 mm <sup>2</sup> ) | 240-300 mm <sup>2</sup> (200–250 mm <sup>2</sup> ) |
| Conductor Size 5.0 kV AEIC      | 800-1000 kcmil                          | 800-1000 kcmil                          | 4/0 AWG-400 kcmil                                  | 500-750 kcmil                                      |
| Conductor Size 6.6 kV IEC (JIS) | 300-325 mm <sup>2</sup> ( - )           | 300-325 mm <sup>2</sup> ( - )           | 60-100 mm <sup>2</sup> (95–150 mm <sup>2</sup> )   | 150-250 mm <sup>2</sup> (185–300 mm <sup>2</sup> ) |
| Conductor Size 8 kV AEIC        | 750-1000 kcmil                          | 750-1000 kcmil                          | 3/0 AWG-350 kcmil                                  | 400-600 kcmil                                      |
| Conductor Size 10 kV IEC        | -                                       | -                                       | 70-150 mm <sup>2</sup>                             | 185-300 mm <sup>2</sup>                            |
| Conductor Size 15 kV IEC (AEIC) | 200-325 mm <sup>2</sup> (500-750 kcmil) | 200-325 mm <sup>2</sup> (500-750 kcmil) | 35-95 mm <sup>2</sup> (1/0-4/0 AWG)                | 120-185 mm <sup>2</sup> (250-450 kcmil)            |
| Conductor Size 20 kV IEC        | -                                       | 240-300 mm <sup>2</sup>                 | 25-70 mm <sup>2</sup>                              | 95-185 mm <sup>2</sup>                             |
| Conductor Size 25/28 kV AEIC    | -                                       | -                                       | 2-1/0 AWG                                          | 2/0 AWG-250 kcmil                                  |
| Conductor Size 35 kV AEIC       | -                                       | -                                       | -                                                  | 1/0–3/0 AWG                                        |
| 7695-T-150-3W                   |                                         |                                         |                                                    |                                                    |
| UPC                             | 054007-04745                            |                                         |                                                    |                                                    |
| BIL                             | 150 kV                                  |                                         |                                                    |                                                    |
| Max. Installed Length           | 16.00" (406 mm)                         |                                         |                                                    |                                                    |
| Insulation O.D. Range           | 1.18"-1.52" (30,0-38,6 mm)              |                                         |                                                    |                                                    |
| Conductor Size 3.3 kV IEC (JIS) | - (300-325 mm <sup>2</sup> )            |                                         |                                                    |                                                    |
| Conductor Size 5.0 kV AEIC      | 800-1000 kcmil                          |                                         |                                                    |                                                    |
| Conductor Size 6.6 kV IEC (JIS) | 300-325 mm <sup>2</sup> ( - )           |                                         |                                                    |                                                    |
| Conductor Size 8 kV AEIC        | 750-1000 kcmil                          |                                         |                                                    |                                                    |
| Conductor Size 10 kV IEC        | -                                       |                                         |                                                    |                                                    |
| Conductor Size 15 kV IEC (AEIC) | 200-325 mm <sup>2</sup> (500-750 kcmil) |                                         |                                                    |                                                    |
| Conductor Size 20 kV IEC        | 240-300 mm <sup>2</sup>                 |                                         |                                                    |                                                    |
| Conductor Size 25/28 kV AEIC    | 300-500 kcmil                           |                                         |                                                    |                                                    |
| Conductor Size 35 kV AEIC       | 4/0 AWG-500 kcmil                       |                                         |                                                    |                                                    |

## Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

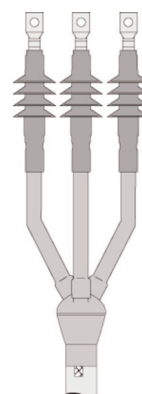
### 3M™ Cold Shrink QT-III Termination Kit 7600-S-3W Series for 5-35 kV

3M™ Cold Shrink QT-III Silicone Rubber Three-Conductor Cable Termination Kit 7600-S-3W Series is designed to accommodate medium-voltage 3/C shielded power cables without ground wires. Each termination kit is supplied with all the materials required for terminating one three-conductor cable. Terminal and lugs must be ordered separately.

The one-piece, skirted silicone rubber terminations come with factory-applied, pre-positioned Hi-K stress control layers underneath the insulator. Its short installed length is excellent for installations in limited spaces, such as those with motors, starters, switchgear, variable speed drives, transformers and similar connections -- often reducing the need to add auxiliary boxes. Kits are designed for a range of cable types including tape shield, wire shield and UniShield® constructions.

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

|                               |                                                                     |
|-------------------------------|---------------------------------------------------------------------|
| <b>Number of Conductors</b>   | Three Conductor                                                     |
| <b>Shielding Type</b>         | Tape Shield (Armored or Unarmored),<br>Wire Shield*, UniShield®*    |
| <b>Indoor/Outdoor</b>         | Outdoor                                                             |
| <b>Breakout Boot</b>          | Yes                                                                 |
| <b>Insulation Rejacketing</b> | Yes                                                                 |
| <b>Voltage</b>                | 3.3 kV, 5 kV, 6.6 kV, 8 kV, 10 kV, 15 kV,<br>20 kV, 25/28 kV, 35 kV |
| <b>Packaging</b>              | 1 kit per case (one three-phase termination per kit)                |



|                                 | 7620-S-2-3W                                   | 7621-S-2-3W                                    | 7622-S-2-3W                                        | 7691-S-4-3W                                    |
|---------------------------------|-----------------------------------------------|------------------------------------------------|----------------------------------------------------|------------------------------------------------|
| UPC                             | 054007-04748                                  | 054007-04749                                   | 054007-04750                                       | 054007-04751                                   |
| Skirts                          | 2                                             | 2                                              | 2                                                  | 4                                              |
| BIL                             | 95 kV                                         | 95 kV                                          | 110 kV                                             | 150 kV                                         |
| Max. Installed Length           | 10.5" (267 mm)                                | 10.5" (267 mm)                                 | 9.8" (249 mm)                                      | 12.25" (311 mm)                                |
| Insulation O.D. Range           | 0.33"-0.50" (8,40-12,7 mm)                    | 0.50"-0.70" (12,7-17,8 mm)                     | 0.70"-0.92" (17,8-23,4 mm)                         | 0.50"-0.70" (12,7-17,8 mm)                     |
| Conductor Size 3.3 kV IEC (JIS) | 16-35 mm <sup>2</sup> (8-22 mm <sup>2</sup> ) | 50-95 mm <sup>2</sup> (38-60 mm <sup>2</sup> ) | 120-185 mm <sup>2</sup> (100-150 mm <sup>2</sup> ) | 50-95 mm <sup>2</sup> (38-60 mm <sup>2</sup> ) |
| Conductor Size 5.0 kV AEIC      | 8-2 AWG                                       | 1-3/0 AWG                                      | 4/0 AWG-400 kcmil                                  | 1-3/0 AWG                                      |
| Conductor Size 6.6 kV JIS (IEC) | - (16-25 mm <sup>2</sup> )                    | - (35-70 mm <sup>2</sup> )                     | 60-100 mm <sup>2</sup> (95-150 mm <sup>2</sup> )   | - (35-70 mm <sup>2</sup> )                     |
| Conductor Size 8 kV AEIC        | 6-4 AWG                                       | 2-2/0 AWG                                      | 3/0 AWG-350 kcmil                                  | 2-2/0 AWG                                      |
| Conductor Size 10 kV IEC        | -                                             | 10-50 mm <sup>2</sup>                          | 70-150 mm <sup>2</sup>                             | 10-50 mm <sup>2</sup>                          |
| Conductor Size 15 kV IEC (AEIC) | -                                             | 16-25 mm <sup>2</sup> ( - )                    | 35-95 mm <sup>2</sup> (1/0-4/0 AWG)                | 16-25 mm <sup>2</sup> ( - )                    |
| Conductor Size 20 kV IEC        | -                                             | -                                              | -                                                  | -                                              |
| Conductor Size 25/28 kV AEIC    | -                                             | -                                              | -                                                  | -                                              |
| Conductor Size 30 kV IEC        | -                                             | -                                              | -                                                  | -                                              |
| Conductor Size 35 kV AEIC       | -                                             | -                                              | -                                                  | -                                              |

Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

## 3M™ Cold Shrink QT-III Termination Kit 7600-S-3W Series for 5-35 kV (continued)

|                                 | 7692-S-4-3W                                        | 7693-S-4-3W                                        | 7695-S-4-3W                             | 7685-S-8-3W                             |
|---------------------------------|----------------------------------------------------|----------------------------------------------------|-----------------------------------------|-----------------------------------------|
| UPC                             | 054007-04752                                       | 054007-04753                                       | 054007-04754                            | 054007-04756                            |
| Skirts                          | 4                                                  | 4                                                  | 4                                       | 8                                       |
| BIL                             | 150 kV                                             | 150 kV                                             | 150 kV                                  | 200 kV                                  |
| Max. Installed Length           | 12.25" (311 mm)                                    | 12.25" (311 mm)                                    | 12.25" (311 mm)                         | 21.50" (546 mm)                         |
| Insulation O.D. Range           | 0.70"-0.92" (17,8-23,4 mm)                         | 0.92"-1.18" (23,4-30,0 mm)                         | 1.18"-1.52" (30,0-38,6 mm)              | 1.18"-1.52" (30,0-38,6 mm)              |
| Conductor Size 3.3 kV IEC (JIS) | 120-185 mm <sup>2</sup> (100-150 mm <sup>2</sup> ) | 240-300 mm <sup>2</sup> (200-250 mm <sup>2</sup> ) | - (300-325 mm <sup>2</sup> )            | - (300-325 mm <sup>2</sup> )            |
| Conductor Size 5.0 kV AEIC      | 4/0 AWG-400 kcmil                                  | 500-750 kcmil                                      | 800-1000 kcmil                          | 800-1000 kcmil                          |
| Conductor Size 6.6 kV JIS (IEC) | 60-100 mm <sup>2</sup> (95-150 mm <sup>2</sup> )   | 150-250 mm <sup>2</sup> (185-300 mm <sup>2</sup> ) | 300-325 mm <sup>2</sup> ( - )           | 300-325 mm <sup>2</sup> ( - )           |
| Conductor Size 8 kV AEIC        | 3/0 AWG-350 kcmil                                  | 400-600 kcmil                                      | 750-1000 kcmil                          | 750-1000 kcmil                          |
| Conductor Size 10 kV IEC        | 70-150 mm <sup>2</sup>                             | 185-300 mm <sup>2</sup>                            | -                                       | -                                       |
| Conductor Size 15 kV IEC (AEIC) | 35-95 mm <sup>2</sup> (1/0-4/0 AWG)                | 120-185 mm <sup>2</sup> (250-450 kcmil)            | 200-325 mm <sup>2</sup> (500-750 kcmil) | 200-325 mm <sup>2</sup> (500-750 kcmil) |
| Conductor Size 20 kV IEC        | 25-70 mm <sup>2</sup>                              | 95-185 mm <sup>2</sup>                             | 240-300 mm <sup>2</sup>                 | 240-300 mm <sup>2</sup>                 |
| Conductor Size 25/28 kV AEIC    | 2-1/0 AWG                                          | 2/0 AWG-250 kcmil                                  | 300-500 kcmil                           | 300-500 kcmil                           |
| Conductor Size 30 kV IEC        | -                                                  | -                                                  | -                                       | 95-240 mm <sup>2</sup>                  |
| Conductor Size 35 kV AEIC       | -                                                  | -                                                  | -                                       | 4/0 AWG-500 kcmil                       |

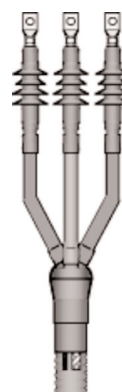
## Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

### 3M™ Cold Shrink QT-III Termination Kit 7600-S-3G Series for 5-35 kV

The 3M™ Cold Shrink QT-III Termination Kit 7600-S-3G Series kits are skirted and designed for outdoor installations and can be used on three conductor cables with internal ground wires. They are designed to terminate medium voltage power cables rated up to 35 kV. Each kit has the necessary materials to make one three-conductor termination. Lugs need to be ordered separately.

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

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| <b>Number of Conductors</b>   | Three Conductor                                                  |
| <b>Shielding Type</b>         | Tape Shield (Armored or Unarmored),<br>Wire Shield*, UniShield®* |
| <b>Indoor/Outdoor</b>         | Outdoor                                                          |
| <b>Breakout Boot</b>          | Yes                                                              |
| <b>Insulation Rejacketing</b> | Yes                                                              |
| <b>Voltage</b>                | 5 kV, 8 kV, 15 kV, 25/28 kV, 35 kV                               |
| <b>Packaging</b>              | 1 kit per case (one three-phase termination per kit)             |



|                                                      | 7620-S-2-3G                | 7621-S-2-3G                | 7622-S-2-3G                | 7691-S-4-3G                |
|------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| UPC                                                  | 054007-43679               | 054007-43680               | 054007-43681               | 054007-43682               |
| Skirts                                               | 2                          | 2                          | 2                          | 4                          |
| BIL                                                  | 95 kV                      | 95 kV                      | 110 kV                     | 150 kV                     |
| Max. Installed Length                                | 10.5" (267 mm)             | 10.5" (267 mm)             | 9.8" (249 mm)              | 12.25" (311 mm)            |
| Insulation O.D. Range                                | 0.33"-0.50" (8,4-12,7 mm)  | 0.50"-0.70" (12,7-17,8 mm) | 0.70"-0.92" (17,8-23,4 mm) | 0.50"-0.70" (12,7-17,8 mm) |
| Max. Cable O.D.                                      | 2.20" (55,9 mm)            | 2.80" (71,1 mm)            | 3.30" (83,8 mm)            | 2.80" (71,1 mm)            |
| Conductor Size AWG & kcmil<br>5 kV - 100% (133%)     | 8-2 (6-4)                  | 1-3/0 (2-2/0)              | 4/0-350 (3/0-350)          | 1-3/0 (2-2/0)              |
| Conductor Size AWG & kcmil<br>8 kV - 100% (133%)     | 6-4 (6-4)                  | 2-2/0 (2-2/0)              | 3/0-350 (3/0-350)          | 2-2/0 (2-2/0)              |
| Conductor Size AWG & kcmil<br>15 kV - 100% (133%)    | -                          | 2-1 ( - )                  | 1/0-4/0 (2-3/0)            | 2-1 ( - )                  |
| Conductor Size AWG & kcmil<br>25/28 kV - 100% (133%) | -                          | -                          | -                          | -                          |
| Conductor Size AWG & kcmil<br>35 kV - 100% (133%)    | -                          | -                          | -                          | -                          |
|                                                      | 7692-S-4-3G                | 7693-S-4-3G                | 7695-S-4-3G                | 7684-S-8-3G                |
| UPC                                                  | 054007-43683               | 054007-43684               | 054007-43685               | 054007-43686               |
| Skirts                                               | 4                          | 4                          | 4                          | 8                          |
| BIL                                                  | 150 kV                     | 150 kV                     | 150 kV                     | 200 kV                     |
| Max. Installed Length                                | 12.25" (311 mm)            | 12.25" (311 mm)            | 12.25" (311 mm)            | 20.5" (521 mm)             |
| Insulation O.D. Range                                | 0.70"-0.92" (17,8-23,4 mm) | 0.92"-1.18" (23,4-30,0 mm) | 1.18"-1.52" (30,0-38,6 mm) | 0.92"-1.18" (23,4-30,0 mm) |
| Max. Cable O.D.                                      | 3.30" (83,8 mm)            | 3.90" (99,1 mm)            | 4.50" (114,3 mm)           | 3.90" (99,1 mm)            |
| Conductor Size AWG & kcmil<br>5 kV - 100% (133%)     | 4/0-350 (3/0-350)          | 400-500 (400-500)          | 700-1000 (700-1000)        | -                          |
| Conductor Size AWG & kcmil<br>8 kV - 100% (133%)     | 3/0-350 (3/0-350)          | 400-500 (400-500)          | 700-1000 (700-1000)        | -                          |
| Conductor Size AWG & kcmil<br>15 kV - 100% (133%)    | 1/0-4/0 (2-3/0)            | 250-350 (4/0-350)          | 500-750 (500-750)          | 250-350 (4/0-350)          |
| Conductor Size AWG & kcmil<br>25/28 kV - 100% (133%) | 1-1/0 ( - )                | 2/0-250 (1-4/0)            | 350-500 (250-500)          | 2/0-250 (1-4/0)            |
| Conductor Size AWG & kcmil<br>35 kV - 100% (133%)    | -                          | -                          | -                          | 1/0-3/0 ( - )              |

Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

### 3M™ Cold Shrink QT-III Termination Kit 7600-S-3G Series for 5-35 kV (continued)

|                                                      | 7685-S-8-3G                | 7686-S-8-3G                |
|------------------------------------------------------|----------------------------|----------------------------|
| UPC                                                  | 054007-43687               | 051128-59530               |
| Skirts                                               | 8                          | 8                          |
| BIL                                                  | 200 kV                     | 200 kV                     |
| Max. Installed Length                                | 20.5" (521 mm)             | 21.5" (546 mm)             |
| Insulation O.D. Range                                | 1.18"-1.52" (30,0-38,6 mm) | 1.53"-1.81" (38,8-46,0 mm) |
| Max. Cable O.D.                                      | 4.50" (114,3 mm)           | 5.40" (137,2 mm)           |
| Conductor Size AWG & kcmil<br>5 kV - 100% (133%)     | -                          | -                          |
| Conductor Size AWG & kcmil<br>8 kV - 100% (133%)     | -                          | -                          |
| Conductor Size AWG & kcmil<br>15 kV - 100% (133%)    | 500-750 (500-750)          | - (1000)                   |
| Conductor Size AWG & kcmil<br>25/28 kV - 100% (133%) | 350-500 (250-500)          | 750 (500-750)              |
| Conductor Size AWG & kcmil<br>35 kV - 100% (133%)    | 4/0-500 (1/0-350)          | 500-750 (350-750)          |

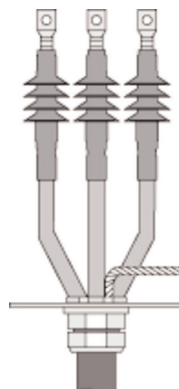
## Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

### 3M™ Cold Shrink QT-III Termination Kit 7600-S-3RJS Series for 5-35 kV

The 3M™ Cold Shrink QT-III Termination Kit 7600-S-3RJS Series are designed for cabinet-mount installations and can be used on cables with, or without, internal ground wires. Each termination kit has all of the materials required to make a three-conductor termination. Lugs must be ordered separately.

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

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| Number of Conductors   | Three Conductor                                                  |
| Shielding Type         | Tape Shield (Armored or Unarmored), Wire Shield*, UniShield®*    |
| Indoor/Outdoor         | Outdoor                                                          |
| Breakout Boot          | No                                                               |
| Insulation Rejacketing | Yes                                                              |
| Voltage                | 3.3 kV, 5 kV, 6.6 kV, 8 kV, 10 kV, 15 kV, 20 kV, 25/28 kV, 35 kV |
| Packaging              | 1 kit per case (one three-phase termination per kit)             |



|                                        | 7620-S-2-3-RJS             | 7621-S-2-3-RJS              | 7622-S-2-3-RJS              | 7691-S-4-3-RJS              |
|----------------------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| UPC                                    | 054007-04722               | 054007-04723                | 054007-04724                | 054007-04725                |
| Skirts                                 | 2                          | 2                           | 2                           | 4                           |
| BIL                                    | 95 kV                      | 95 kV                       | 110 kV                      | 150 kV                      |
| Max. Installed Length                  | 10.5" (267 mm)             | 10.5" (267 mm)              | 9.8" (249 mm)               | 12.25" (311 mm)             |
| Insulation O.D. Range                  | 0.33"-0.50" (8,4-12,7 mm)  | 0.50"-0.70" (12,7-17,8 mm)  | 0.70"-0.92" (17,8-23,4 mm)  | 0.50"-0.70" (12,7-17,8 mm)  |
| Conductor Size 3.3 kV 100% - IEC (JIS) | 16-35 mm² (8-22 mm²)       | 50-95 mm² (38-60 mm²)       | 120-185 mm² (100-150 mm²)   | 50-95 mm² (38-60 mm²)       |
| Conductor Size 5.0 kV 100% - AEIC      | 8-2 AWG                    | 1-3/0 AWG                   | 4/0 AWG-400 kcmil           | 1-3/0 AWG                   |
| Conductor Size 6.6 kV 100% - IEC (JIS) | 16-25 mm² (-)              | 35-70 mm² (-)               | 95-150 mm² (60-100 mm²)     | 35-70 mm² (-)               |
| Conductor Size 8 kV 100% - AEIC        | 6-4 AWG                    | 2-2/0 AWG                   | 3/0 AWG-350 kcmil           | 2-2/0 AWG                   |
| Conductor Size 10 kV 100% - IEC        | -                          | 10-50 mm²                   | 70-150 mm²                  | 10-50 mm²                   |
| Conductor Size 15 kV 100% - IEC (AEIC) | -                          | 16-25 mm² (-)               | 35-95 mm² (1/0-4/0 AWG)     | 16-25 mm² (2-1 AWG)         |
| Conductor Size 20 kV 100% - IEC        | -                          | -                           | -                           | -                           |
| Conductor Size 25/28 kV 100% - AEIC    | -                          | -                           | -                           | -                           |
| Conductor Size 30 kV 100% - IEC        | -                          | -                           | -                           | -                           |
| Conductor Size 35 kV 100% - AEIC       | -                          | -                           | -                           | -                           |
|                                        | 7692-S-4-3-RJS             | 7693-S-4-3-RJS              | 7695-S-4-3-RJS              | 7684-S-8-3-RJS              |
| UPC                                    | 054007-04726               | 054007-04727                | 054007-04728                | 054007-04729                |
| Skirts                                 | 4                          | 4                           | 4                           | 8                           |
| BIL                                    | 150 kV                     | 150 kV                      | 150 kV                      | 200 kV                      |
| Max. Installed Length                  | 12.25" (311 mm)            | 12.25" (311 mm)             | 12.25" (311 mm)             | 20.5" (521 mm)              |
| Insulation O.D. Range                  | 0.70"-0.92" (17,8-23,4 mm) | 0.92"-1.18" (23,4-30,0 mm)  | 1.18"-1.52" (30,0-38,6 mm)  | 0.92"-1.18" (23,4-30,0 mm)  |
| Conductor Size 3.3 kV 100% - IEC (JIS) | 120-185 mm² (100-150 mm²)  | 240-300 mm² (200-250 mm²)   | - (300-325 mm²)             | 240-300 mm² (200-250 mm²)   |
| Conductor Size 5.0 kV 100% - AEIC      | 4/0 AWG-400 kcmil          | 500-750 kcmil               | 800-1000 kcmil              | 500-750 kcmil               |
| Conductor Size 6.6 kV 100% - IEC (JIS) | 95-150 mm² (60-100 mm²)    | 185-300 mm² (150-250 mm²)   | - (300-325 mm²)             | 185-300 mm² (150-250 mm²)   |
| Conductor Size 8 kV 100% - AEIC        | 3/0 AWG-350 kcmil          | 400-600 kcmil               | 750-1000 kcmil              | 400-600 kcmil               |
| Conductor Size 10 kV 100% - IEC        | 70-150 mm²                 | 185-300 mm²                 | -                           | 185-300 mm²                 |
| Conductor Size 15 kV 100% - IEC (AEIC) | 35-95 mm² (1/0-4/0 AWG)    | 120-185 mm² (250-450 kcmil) | 200-325 mm² (500-750 kcmil) | 120-185 mm² (250-450 kcmil) |
| Conductor Size 20 kV 100% - IEC        | 25-70 mm²                  | 95-185 mm²                  | 240-300 mm²                 | 95-185 mm²                  |
| Conductor Size 25/28 kV 100% - AEIC    | 2-1/0 AWG                  | 2/0 AWG-250 kcmil           | 300-500 kcmil               | 2/0 AWG-250 kcmil           |
| Conductor Size 30 kV 100% - IEC        | -                          | -                           | -                           | 35-70 mm²                   |
| Conductor Size 35 kV 100% - AEIC       | -                          | -                           | -                           | 1/0-3/0 AWG                 |

Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

## 3M™ Cold Shrink QT-III Termination Kit 7600-S-3RJS Series for 5-35 kV (continued)

|                                        | 7685-S-8-3-RJS              | 7686-S-8-3-RJS             |
|----------------------------------------|-----------------------------|----------------------------|
| UPC                                    | 054007-04730                | 051128-59531               |
| Skirts                                 | 8                           | 8                          |
| BIL                                    | 200 kV                      | 200 kV                     |
| Max. Installed Length                  | 20.5" (521 mm)              | 21.5" (546 mm)             |
| Insulation O.D. Range                  | 1.18"-1.52" (30,0-38,6 mm)  | 1.53"-1.81" (38,8-46,0 mm) |
| Conductor Size 3.3 kV 100% - IEC (JIS) | - (300-325 mm²)             | -                          |
| Conductor Size 5.0 kV 100% - AEIC      | 800-1000 kcmil              | -                          |
| Conductor Size 6.6 kV 100% - IEC (JIS) | - (300-325 mm²)             | -                          |
| Conductor Size 8 kV 100% - AEIC        | 750-1000 kcmil              | -                          |
| Conductor Size 10 kV 100% - IEC        | -                           | -                          |
| Conductor Size 15 kV 100% - IEC (AEIC) | 200-325 mm² (500-750 kcmil) | -                          |
| Conductor Size 20 kV 100% - IEC        | 240-300 mm²                 | -                          |
| Conductor Size 25/28 kV 100% - AEIC    | 300-500 kcmil               | 750 kcmil                  |
| Conductor Size 30 kV 100% - IEC        | 95-240 mm²                  | 240-325 mm²                |
| Conductor Size 35 kV 100% - AEIC       | 4/0 AWG-500 kcmil           | 500-750 kcmil              |

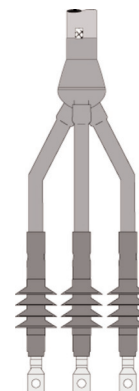
Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

## 3M™ Cold Shrink QT-III Inverted Termination Kit 7600-S-INV-3W Series - 4 Skirt, for 5-25/28 kV

3M™ Cold Shrink QT-III Inverted Termination Kit 7600-S-INV-3W Series are skirted and designed for outdoor installations and can be used on three conductor cables without internal ground wires. These kits are designed to terminate medium voltage power cables rated up to 25/28 kV. Each termination kit has all of the materials required to make a three conductor termination. Lugs must be ordered separately.

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

|                               |                                                               |
|-------------------------------|---------------------------------------------------------------|
| <b>Number of Conductors</b>   | Three Conductor                                               |
| <b>Shielding Type</b>         | Tape Shield (Armored or Unarmored), Wire Shield*, UniShield®* |
| <b>Indoor/Outdoor</b>         | Outdoor                                                       |
| <b>Breakout Boot</b>          | Yes                                                           |
| <b>Insulation Rejacketing</b> | Yes                                                           |
| <b>No. Skirts</b>             | 4                                                             |
| <b>Voltage</b>                | 3.3 kV, 5 kV, 6.6 kV, 8 kV, 10 kV, 15 kV, 20 kV, 25/28 kV     |
| <b>Packaging</b>              | 1 kit per case (one three-phase termination per kit)          |



|                                 | 7693-S-4-INV-3W                                    | 7695-S-4-INV-3W                         |
|---------------------------------|----------------------------------------------------|-----------------------------------------|
| UPC                             | 054007-04746                                       | 054007-04747                            |
| BIL                             | 200 kV                                             | 200 kV                                  |
| Max. Installed Length           | 16.0" (406 mm)                                     | 16.0" (406 mm)                          |
| Insulation O.D. Range           | 0.92"-1.18" (23,4-30,0 mm)                         | 1.18"-1.52" (30,0-38,6 mm)              |
| Conductor Size 3.3 kV IEC (JIS) | 240-300 mm <sup>2</sup> (200-250 mm <sup>2</sup> ) | - (300-325 mm <sup>2</sup> )            |
| Conductor Size 5.0 kV AEIC      | 500-750 kcmil                                      | 800-1000 kcmil                          |
| Conductor Size 6.6 kV JIS (IEC) | 150-250 mm <sup>2</sup> (185-300 mm <sup>2</sup> ) | 300-325 mm <sup>2</sup> ( - )           |
| Conductor Size 8 kV AEIC        | 400-600 kcmil                                      | 750-1000 kcmil                          |
| Conductor Size 10 kV IEC        | 185-300 mm <sup>2</sup>                            | -                                       |
| Conductor Size 15 kV IEC (AEIC) | 120-185 mm <sup>2</sup> (250-450 kcmil)            | 200-325 mm <sup>2</sup> (500-750 kcmil) |
| Conductor Size 20 kV IEC        | 95-185 mm <sup>2</sup>                             | 240-300 mm <sup>2</sup>                 |
| Conductor Size 25/28 kV AEIC    | 2/0 AWG-250 kcmil                                  | 300-500 kcmil                           |

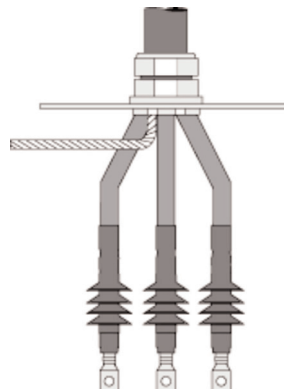
## Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

### 3M™ Cold Shrink QT-III Inverted Termination Kit 7600-S-INV-3RJS Series for 5-25/28 kV

3M™ Cold Shrink QT-III Inverted Termination Kit 7600-S-INV-3RJS Series are designed to accommodate medium voltage 3/C shielded power cable kits for 7600-3-RJS Series cabinet-mount installations and can be used on cables with or without ground wires. Each termination kit is supplied with all the materials required for terminating one three-conductor cable. Terminal and/or lug must be ordered separately.

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

|                               |                                                               |
|-------------------------------|---------------------------------------------------------------|
| <b>Number of Conductors</b>   | Three Conductor                                               |
| <b>Shielding Type</b>         | Tape Shield (Armored or Unarmored), Wire Shield*, UniShield®* |
| <b>Indoor/Outdoor</b>         | Outdoor                                                       |
| <b>Breakout Boot</b>          | No                                                            |
| <b>Insulation Rejacketing</b> | Yes                                                           |
| <b>No. Skirts</b>             | 4                                                             |
| <b>Voltage</b>                | 3.3 kV, 5 kV, 6.6 kV, 8 kV, 10 kV, 15 kV, 20 kV, 25/28 kV     |
| <b>Packaging</b>              | 1 kit per case (one three-phase termination per kit)          |



|                                 | 7693-S-4-INV-3-RJS                                 | 7695-S-4-INV-3-RJS                      |
|---------------------------------|----------------------------------------------------|-----------------------------------------|
| UPC                             | 054007-04720                                       | 054007-04721                            |
| BIL                             | 200 kV                                             | 200                                     |
| Max. Installed Length           | 16.0" (406 mm)                                     | 16.0" (406 mm)                          |
| Insulation O.D. Range           | 0.92"-1.18" (23,4-30,0 mm)                         | 1.18-1.52" (30,0-38,6 mm)               |
| Conductor Size 3.3 kV IEC (JIS) | 240-300 mm <sup>2</sup> (200-250 mm <sup>2</sup> ) | - (300-325 mm <sup>2</sup> )            |
| Conductor Size 5.0 kV AEIC      | 500-750 kcmil                                      | 800-1000 kcmil                          |
| Conductor Size 6.6 kV IEC (JIS) | 185-300 mm <sup>2</sup> (150-250 mm <sup>2</sup> ) | - (300-325 mm <sup>2</sup> )            |
| Conductor Size 8 kV AEIC        | 400-600 kcmil                                      | 750-1000 kcmil                          |
| Conductor Size 10 kV IEC        | 185-300 mm <sup>2</sup>                            | -                                       |
| Conductor Size 15 kV IEC (AEIC) | 120-185 mm <sup>2</sup> (250-450 kcmil)            | 200-325 mm <sup>2</sup> (500-750 kcmil) |
| Conductor Size 20 kV IEC        | 95-185 mm <sup>2</sup>                             | 240-300 mm <sup>2</sup>                 |
| Conductor Size 25/28 kV AEIC    | 2/0 AWG-250 kcmil                                  | 300-500 kcmil                           |

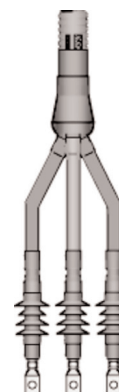
## Three Core Tape Shield, Wire Shield & UniShield® Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

### 3M™ Cold Shrink QT-III Inverted Termination Kit 7600-S-4-INV-3G Series for 5-25 kV

The 3M™ Cold Shrink QT-III Inverted Termination Kit 7600-S-4-INV-3G Series are skirted and designed for outdoor installations and can be used on three conductor cables with internal ground wires. They are designed to terminate medium voltage power cables rated up to 25 kV. Each termination kit has sufficient material to make a one three-conductor termination. Lugs must be ordered separately.

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

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| <b>Number of Conductors</b>   | Three Conductor                                                  |
| <b>Shielding Type</b>         | Tape Shield (Armored or Unarmored),<br>Wire Shield*, UniShield®* |
| <b>Indoor/Outdoor</b>         | Outdoor                                                          |
| <b>Breakout Boot</b>          | Yes                                                              |
| <b>Insulation Rejacketing</b> | Yes                                                              |
| <b>No. Skirts</b>             | 4                                                                |
| <b>Voltage</b>                | 5 kV, 8 kV, 15 kV, 25/28 kV                                      |
| <b>Packaging</b>              | 1 kit per case (one three-phase termination per kit)             |



| Order No.       | UPC          | BIL    | Max. Installed Length | Insulation O.D. Range      | Cable O.D.       | Conductor Size 5 kV 100% (133%) | Conductor Size 8 kV 100% (133%) | Conductor Size 15 kV 100% (133%)  | Conductor Size 25/28 kV 100% (133%) |
|-----------------|--------------|--------|-----------------------|----------------------------|------------------|---------------------------------|---------------------------------|-----------------------------------|-------------------------------------|
| 7693-S-4-INV-3G | 054007-43677 | 200 kV | 16.0" (406 mm)        | 0.92"-1.18" (23,4-30,0 mm) | 3.90" (99,1 mm)  | 400-500 kcmil (400-500 kcmil)   | 400-500 kcmil (400-500 kcmil)   | 250-350 kcmil (4/0 AWG-350 kcmil) | 2/0 AWG-250 kcmil (1-4/0 AWG)       |
| 7695-S-4-INV-3G | 054007-43678 | 200 kV | 16.0" (406 mm)        | 1.18"-1.52" (30,0-38,4 mm) | 4.50" (114,3 mm) | 700-1000 kcmil (700-1000 kcmil) | 700-1000 kcmil (700-1000 kcmil) | 500-750 kcmil (500-750 kcmil)     | 350-500 kcmil (250-500 kcmil)       |

# 3M™ Medium Voltage Terminations for Single Core Tape Shield, Wire-Over-Tape Shield and Longitudinally Corrugated (LC) Shield Cable, 5 kV - 35 kV

| Section                                                                                                                   | Page    |
|---------------------------------------------------------------------------------------------------------------------------|---------|
| Single Core Tape Shield, Wire-Over-Tape Shield & LC Shield Cable,<br>5–35 kV .....                                        | 289-293 |
| 3M™ Cold Shrink QT-III Terminations .....                                                                                 | 289-293 |
| Indoor Kits .....                                                                                                         | 289     |
| 3M™ Cold Shrink QT-III Termination 7640-T-HSG & 7650-T-HSG Series for 5-35 kV .....                                       | 289     |
| Outdoor Skirted Kits .....                                                                                                | 290-293 |
| 3M™ Cold Shrink QT-III High Fault Current Termination Kit 7650-S-HSG & 7660-S-HSG Series for 5-35 kV .....                | 290-291 |
| 3M™ Cold Shrink QT-III High Fault Current Termination Kit 7650-S-HSG & 7660-S-HSG Series (w/ Connector) for 5-35 kV ..... | 292-293 |

## Single Core Tape Shield, Wire-Over-Tape Shield & LC Shield Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Indoor Kits

### 3M™ Cold Shrink QT-III Termination 7640-T-HSG & 7650-T-HSG Series for 5-35 kV

3M™ Cold Shrink QT-III Silicone Rubber Termination 7640-T-HSG and 7650-T-HSG Series are designed for applications requiring a high-ampacity ground. Each kit contains a one-piece, non-skirted, silicone rubber termination with high-ampacity ground assembly and is qualified as IEEE Standard 48 Class 1 for indoor and weather-protected applications. The termination assembly consists of a tubular insulator, high-dielectric constant (Hi-K) stress control tube, conformable Hi-K stress controlling compound and built-in environmental top seal. The insulator is made of a dark gray silicone rubber with excellent tracking resistance and hydrophobic properties. The complete assembly is pre-stretched and loaded onto a removable core which can be recycled. The kits are designed for terminating solid dielectric shielded power cable rated 5–35 kV, with tape shield, wire-over-tape shield and longitudinally corrugated (LC) shield constructions.

Each kit contains sufficient quantities of material to make one termination. Lugs need to be ordered separately.

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| Number of Conductors   | Single Conductor                                                          |
| Shielding Type         | Tape Shield, Wire-Over-Tape Shield, Longitudinally Corrugated (LC) Shield |
| Indoor/Outdoor         | Indoor                                                                    |
| Breakout Boot          | No                                                                        |
| Insulation Rejacketing | No                                                                        |
| No. Skirts             | 0                                                                         |
| Voltage                | 5 kV, 8 kV, 15 kV, 25/28 kV, 35 kV                                        |
| Packaging              | 1 kit per case (one termination per kit)                                  |



| Order No.      | UPC          | BIL    | Max. Installed Length | Insulation O.D. Range      | Conductor Size 5 kV | Conductor Size 8 kV | Conductor Size 15 kV            | Conductor Size 25/28 kV      | Conductor Size 35 kV           |
|----------------|--------------|--------|-----------------------|----------------------------|---------------------|---------------------|---------------------------------|------------------------------|--------------------------------|
| 7642-T-HSG-110 | 054007-41765 | 110 kV | 12.0" (305 mm)        | 0.64"-1.08" (16,3-27,4 mm) | 4/0 AWG-400 kcmil   | 3/0 AWG-300 kcmil   | 2-4/0 AWG (35-120 mm²)          | -                            | -                              |
| 7644-T-HSG-110 | 054007-41767 | 110 kV | 12.0" (305 mm)        | 0.83"-1.53" (21,1-38,9 mm) | 500-750 kcmil       | 350-700 kcmil       | 4/0 AWG-500 kcmil (120-240 mm²) | -                            | -                              |
| 7645-T-HSG-110 | 054007-41769 | 110 kV | 12.0" (305 mm)        | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil      | 600-1250 kcmil      | 500-1000 kcmil (240-500 mm²)    | -                            | -                              |
| 7646-T-HSG-110 | 054007-41771 | 110 kV | 12.0" (305 mm)        | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil     | 1500-2000 kcmil     | 1250-2000 kcmil (625-1000 mm²)  | -                            | -                              |
| 7653-T-HSG-150 | 054007-41773 | 150 kV | 16.0" (406 mm)        | 0.72"-1.29" (18,3-32,8 mm) | 300-500 kcmil       | 250-500 kcmil       | 2/0-300 kcmil (70-150 mm²)      | 2-4/0 AWG (35-120 mm²)       | 2-2/0 AWG (35-70 mm²)          |
| 7655-T-HSG-150 | 054007-41775 | 150 kV | 16.0" (406 mm)        | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil      | 600-1250 kcmil      | 500-1000 kcmil (240-500 mm²)    | 250-800 kcmil (150-400 mm²)  | 3/0 AWG-600 kcmil (95-325 mm²) |
| 7656-T-HSG-150 | 054007-41777 | 150 kV | 16.0" (406 mm)        | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil     | 1500-2000 kcmil     | 1250-2000 kcmil (625-1000 mm²)  | 900-1750 kcmil (500-800 mm²) | 700-1500 kcmil (400-725 mm²)   |

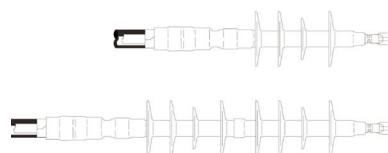
## Single Core Tape Shield, Wire-Over-Tape Shield & LC Shield Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

### 3M™ Cold Shrink QT-III High Fault Current Termination Kit 7650-S-HSG & 7660-S-HSG Series for 5-35 kV

3M™ Cold Shrink QT-III Terminations offer easy installation and reliable performance when terminating indoor and outdoor medium voltage cable. The unique step-core design combined with the built in Hi-K stress control and environmental sealing compounds means simpler installation on all types of cable. It has UV stability and track and erosion resistance. Plus its Hi-K stress control design delivers excellent BIL performance and lower surface stress resulting in a more compact termination. Through excellent engineering, 3M™ Cold Shrink QT-III terminations deliver maximum performance. The kits are designed for terminating solid dielectric shielded power cables rated 5–35 kV with tape shield, longitudinally corrugated (LC) shield, and wire-over-tape shield constructions.

Each kit contains sufficient quantities of material to make one single-phase termination. Lugs need to be ordered separately.

|                               |                                                                           |
|-------------------------------|---------------------------------------------------------------------------|
| <b>Number of Conductors</b>   | Single Conductor                                                          |
| <b>Shielding Type</b>         | Tape Shield, Wire-Over-Tape Shield, Longitudinally Corrugated (LC) Shield |
| <b>Indoor/Outdoor</b>         | Outdoor                                                                   |
| <b>Breakout Boot</b>          | No                                                                        |
| <b>Insulation Rejacketing</b> | No                                                                        |
| <b>Voltage</b>                | 5 kV, 8 kV, 15 kV, 25/28 kV, 35 kV                                        |
| <b>Packaging</b>              | 1 kit per case (one single-phase termination per kit)                     |



| Order No.    | UPC          | Skirts | BIL    | Max. Installed Length | Insulation O.D. Range      | Conductor Size 5 kV | Conductor Size 8 kV | Conductor Size 15 kV            | Conductor Size 25/28 kV        | Conductor Size 35 kV   |
|--------------|--------------|--------|--------|-----------------------|----------------------------|---------------------|---------------------|---------------------------------|--------------------------------|------------------------|
| 7652-S-HSG-4 | 054007-42171 | 4      | 150 kV | 12.25" (311 mm)       | 0.64"-1.08" (16,3-27,4 mm) | 4/0 AWG-400 kcmil   | 3/0 AWG-300 kcmil   | 2-4/0 AWG (35-120 mm²)          | 2-1/0 AWG (35-50 mm²)          | -                      |
| 7653-S-HSG-4 | 054007-42185 | 4      | 150 kV | 12.25" (311 mm)       | 0.72"-1.29" (18,3-32,8 mm) | 300-500 kcmil       | 250-500 kcmil       | 2/0 AWG-300 kcmil (70-150 mm²)  | 2-4/0 AWG (35-120 mm²)         | -                      |
| 7654-S-HSG-4 | 054007-42199 | 4      | 150 kV | 12.25" (311 mm)       | 0.83"-1.53" (21,1-38,9 mm) | 500-750 kcmil       | 350-700 kcmil       | 4/0 AWG-500 kcmil (120-240 mm²) | 2/0 AWG-250 kcmil (70-150 mm²) | -                      |
| 7655-S-HSG-4 | 054007-42207 | 4      | 150 kV | 12.25" (311 mm)       | 1.05"-1.80" (26,7-45,7 mm) | 700-1500 kcmil      | 600-1250 kcmil      | 500-1000 kcmil (240-500 mm²)    | 250-800 kcmil (150-400 mm²)    | -                      |
| 7656-S-HSG-4 | 054007-42209 | 4      | 150 kV | 13.25" (337 mm)       | 1.53"-2.32" (38,9-58,9 mm) | 1750-2000 kcmil     | 1500-2000 kcmil     | 1250-2000 kcmil (625-1000 mm²)  | 900-1750 kcmil (500-800 mm²)   | -                      |
| 7663-S-HSG-8 | 054007-42440 | 8      | 200 kV | 20.50" (521 mm)       | 0.72"-1.29" (18,3-32,8 mm) | 300-500 kcmil       | 250-500 kcmil       | 2/0 AWG-300 kcmil (70-150 mm²)  | 2-4/0 AWG (35-120 mm²)         | 2-2/0 AWG (35-70 mm²)  |
| 7664-S-HSG-8 | 054007-42454 | 8      | 200 kV | 20.50" (521 mm)       | 0.83"-1.53" (21,1-38,9 mm) | 500-750 kcmil       | 350-700 kcmil       | 4/0 AWG-500 kcmil (120-240 mm²) | 2/0 AWG-250 kcmil (70-150 mm²) | 2-4/0 AWG (35-120 mm²) |

Single Core Tape Shield, Wire-Over-Tape Shield & LC Shield Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

## 3M™ Cold Shrink QT-III High Fault Current Termination Kit 7650-S-HSG & 7660-S-HSG Series for 5-35 kV (continued)

| Order No.    | UPC          | Skirts | BIL    | Max. Installed Length | Insulation O.D. Range         | Conductor Size 5 kV | Conductor Size 8 kV | Conductor Size 15 kV                                 | Conductor Size 25/28 kV                            | Conductor Size 35 kV                                  |
|--------------|--------------|--------|--------|-----------------------|-------------------------------|---------------------|---------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| 7665-S-HSG-8 | 054007-42462 | 8      | 200 kV | 20.50"<br>(521 mm)    | 1.05"-1.80"<br>(26,7-45,7 mm) | 700-1500<br>kcmil   | 600-1250<br>kcmil   | 500-1000<br>kcmil<br>(240-500<br>mm <sup>2</sup> )   | 250-800<br>kcmil<br>(125-400<br>mm <sup>2</sup> )  | 3/0 AWG-<br>600 kcmil<br>(95-325<br>mm <sup>2</sup> ) |
| 7666-S-HSG-8 | 054007-42464 | 8      | 200 kV | 21.50"<br>(546 mm)    | 1.53"-2.32"<br>(38,9-58,9 mm) | 1750-2000<br>kcmil  | 1500-2000<br>kcmil  | 1250-2000<br>kcmil<br>(625-1000<br>mm <sup>2</sup> ) | 900-1750<br>kcmil<br>(500-800<br>mm <sup>2</sup> ) | 700-1500<br>kcmil<br>(400-725<br>mm <sup>2</sup> )    |

## Single Core Tape Shield, Wire-Over-Tape Shield & LC Shield Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

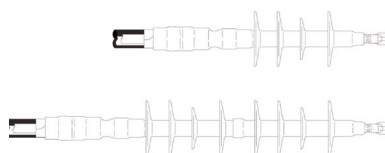
### 3M™ Cold Shrink QT-III High Fault Current Termination Kit 7650-S-HSG & 7660-S-HSG Series (w/ Connector) for 5-35 kV

3M™ Cold Shrink QT-III Terminations offer easy installation and reliable performance when terminating indoor and outdoor medium voltage cable. The unique step-core design combined with the built in Hi-K stress control and environmental sealing compounds means simpler installation on all types of cable. It has UV stability and track and erosion resistance. Plus its Hi-K stress control design delivers excellent BIL performance and lower surface stress resulting in a more compact termination. Through excellent engineering, 3M™ Cold Shrink QT-III terminations deliver maximum performance. The kits are designed for terminating solid dielectric shielded power cables rated 5–35 kV with tape shield, longitudinally corrugated (LC) shield, and wire-over-tape shield constructions.

Each kit contains sufficient quantities of material to make one single-phase termination.

NOTE: Lug or mounting bracket included. These termination kits use 3M™ Scotchlok™ Copper Lugs 30000 Series and 31000 Series, 3M™ Scotchlok™ Aluminum Lugs 40000 Series, or or 3M™ Stem Connectors SC Series. See Lugs and Connectors for more information about these accessories.

|                               |                                                                           |
|-------------------------------|---------------------------------------------------------------------------|
| <b>Number of Conductors</b>   | Single Conductor                                                          |
| <b>Shielding Type</b>         | Tape Shield, Wire-Over-Tape Shield, Longitudinally Corrugated (LC) Shield |
| <b>Indoor/Outdoor</b>         | Outdoor                                                                   |
| <b>Breakout Boot</b>          | No                                                                        |
| <b>Insulation Rejacketing</b> | Yes                                                                       |
| <b>Voltage</b>                | 5 kV, 8 kV, 15 kV, 25/28 kV, 35 kV                                        |
| <b>Packaging</b>              | 1 kit per case (one single-phase termination per kit)                     |



|                             | 7652-S-HSG-4-1/0           | 7652-S-HSG-4-2             | 7652-S-HSG-4-2/0           | 7652-S-HSG-4-3/0           |
|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| UPC                         | 054007-42172               | 054007-42173               | 054007-42174               | 054007-42176               |
| Skirts                      | 4                          | 4                          | 4                          | 4                          |
| BIL                         | 150 kV                     | 150 kV                     | 150 kV                     | 150 kV                     |
| Max. Installed Length       | 12.25" (311 mm)            | 12.25" (311 mm)            | 12.25" (311 mm)            | 12.25" (311 mm)            |
| Insulation O.D. Range       | 0.64"-1.08" (16,3-27,4 mm) | 0.64"-1.08" (16,3-27,4 mm) | 0.64"-1.08" (16,3-27,4 mm) | 0.64"-1.08" (16,3-27,4 mm) |
| Conductor Size 5 kV         | -                          | -                          | -                          | -                          |
| Conductor Size 8 kV         | -                          | -                          | -                          | 3/0 AWG (95 mm²)           |
| Conductor Size 15 kV        | 1/0 AWG (50 mm²)           | 2 AWG (35 mm²)             | 2/0 AWG (70 mm²)           | 3/0 AWG (95 mm²)           |
| Conductor Size 25/28 kV     | 1/0 AWG (50 mm²)           | 2 AWG (35 mm²)             | -                          | -                          |
| Conductor Size 35 kV        | -                          | -                          | -                          | -                          |
| Lug/Stem Connector Included | (1) SC0010 Stem Connector  | (1) SC0001 Stem Connector  | (1) SC0020 Stem Connector  | (1) SC0030 Stem Connector  |
| Mounting Bracket Included   | No                         | No                         | No                         | No                         |

Single Core Tape Shield, Wire-Over-Tape Shield & LC Shield Cable, 5–35 kV: 3M™ Cold Shrink QT-III Terminations: Outdoor Skirted Kits

## 3M™ Cold Shrink QT-III High Fault Current Termination Kit 7650-S-HSG & 7660-S-HSG Series (w/ Connector) for 5-35 kV (continued)

|                             | 7652-S-HSG-4-4/0                          | 7653-S-HSG-4-4/0               | 7654-S-HSG-4-4/0               | 7655-S-HSG-4-MB5                          |
|-----------------------------|-------------------------------------------|--------------------------------|--------------------------------|-------------------------------------------|
| UPC                         | 054007-42177                              | 054007-42191                   | 054007-42202                   | 054007-43393                              |
| Skirts                      | 4                                         | 4                              | 4                              | 4                                         |
| BIL                         | 150 kV                                    | 150 kV                         | 150 kV                         | 150 kV                                    |
| Max. Installed Length       | 12.25" (311 mm)                           | 12.25" (311 mm)                | 12.25" (311 mm)                | 12.25" (311 mm)                           |
| Insulation O.D. Range       | 0.64"-1.08" (16,3-27,4 mm)                | 0.72"-1.29" (18,3-32,8 mm)     | 0.83"-1.53" (21,1-38,9 mm)     | 1.05"-1.80" (26,7-45,7 mm)                |
| Conductor Size 5 kV         | 4/0 AWG                                   | -                              | -                              | 700-1500 kcmil                            |
| Conductor Size 8 kV         | 4/0 AWG                                   | -                              | -                              | 600-1250 kcmil                            |
| Conductor Size 15 kV        | 4/0 AWG (120 mm <sup>2</sup> )            | 4/0 AWG (120 mm <sup>2</sup> ) | 4/0 AWG (120 mm <sup>2</sup> ) | 500-1000 kcmil (240-500 mm <sup>2</sup> ) |
| Conductor Size 25/28 kV     | -                                         | 4/0 AWG (120 mm <sup>2</sup> ) | 4/0 AWG (120 mm <sup>2</sup> ) | 250-800 kcmil (150-400 mm <sup>2</sup> )  |
| Conductor Size 35 kV        | -                                         | -                              | -                              | -                                         |
| Lug/Stem Connector Included | (1) SC0040 Stem Connector                 | (1) SC0040 Stem Connector      | (1) SC0040 Stem Connector      | No                                        |
| Mounting Bracket Included   | No                                        | No                             | No                             | (1) MB5 Mounting Bracket                  |
|                             | 7655-S-HSG-4-MB6                          | 7663-S-HSG-8-1/0               |                                |                                           |
| UPC                         | 054007-44276                              | 054007-42441                   |                                |                                           |
| Skirts                      | 4                                         | 8                              |                                |                                           |
| BIL                         | 150 kV                                    | 200 kV                         |                                |                                           |
| Max. Installed Length       | 12.25" (311 mm)                           | 20.50" (520 mm)                |                                |                                           |
| Insulation O.D. Range       | 1.05"-1.80" (26,7-45,7 mm)                | 0.72"-1.29" (18,3-32,8 mm)     |                                |                                           |
| Conductor Size 5 kV         | 700-1500 kcmil                            | -                              |                                |                                           |
| Conductor Size 8 kV         | 600-1250 kcmil                            | -                              |                                |                                           |
| Conductor Size 15 kV        | 500-1000 kcmil (240-500 mm <sup>2</sup> ) | -                              |                                |                                           |
| Conductor Size 25/28 kV     | 250-800 kcmil (150-400 mm <sup>2</sup> )  | 1/0 AWG (50 mm <sup>2</sup> )  |                                |                                           |
| Conductor Size 35 kV        | -                                         | 1/0 AWG (50 mm <sup>2</sup> )  |                                |                                           |
| Lug/Stem Connector Included | No                                        | (1) SC0010 Stem Connector      |                                |                                           |
| Mounting Bracket Included   | (1) MB6 Mounting Bracket                  | No                             |                                |                                           |

# Tape Termination Kits, 5 kV – 25/28 kV

| Section                                                                | Page |
|------------------------------------------------------------------------|------|
| Tape Terminations, 5–25/28 kV .....                                    | 295  |
| Tape Shield, Wire Shield, UniShield®, and Concentric Neutral (CN)..... | 295  |
| Indoor Kits .....                                                      | 295  |
| Scotch® Tape Termination Kits 5700 Series for 5–25/28 kV .....         | 295  |

## Tape Terminations, 5–25/28 kV: Tape Shield, Wire Shield, UniShield®, and Concentric Neutral (CN): Indoor Kits

## Scotch® Tape Termination Kits 5700 Series for 5–25/28 kV

Scotch® Tape Termination Kits 5700 Series are designed to terminate solid dielectric shielded power cables rated 5–25/28 kV with tape shield, wire shield, UniShield® and concentric neutral (CN) construction in weather-protected areas. They can be upgraded to Class 1 (indoors only) with the use of Scotch® Silicone Rubber Electrical Tape 70 (see kit instructions).

Lugs are not included and must be ordered separately.

Note: For 25/28 kV applications using the 5703 termination kit, additional tapes must be purchased: (2) rolls of Scotch® High Voltage Splicing Tape 130C; (5) rolls of Scotch® Silicone Rubber Electrical Tape 70; and (1) roll of Scotch® Super 33+™ Vinyl Electrical Tape.

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Number of Conductors   | Single Conductor                                              |
| Shielding Type         | Tape Shield, Wire Shield, UniShield®, Concentric Neutral (CN) |
| Indoor/Outdoor         | Indoor                                                        |
| Breakout Boot          | No                                                            |
| Insulation Rejacketing | No                                                            |
| Number of Skirts       | 0                                                             |
| Voltage                | 5 kV, 8 kV, 15 kV, 25/28 kV                                   |
| Packaging              | 3 kits per case (three terminations per kit)                  |



| Order No. | UPC          | Max. Installed Length                                                                                                                                                                                                                                                                                                                                                                                   | Conductor Size 5 kV                | Conductor Size 8 kV                | Conductor Size 15 kV               | Conductor Size 25/28 kV            |
|-----------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| 5701      | 054007-11248 | Wire Shielded Cable, 5 kV: 12.75" (323,9 mm)<br>Wire Shielded Cable, 8 kV: 15" (381,0 mm)<br>Wire Shielded Cable, 15 kV: 20" (508,0 mm)<br>UniShield®, 5 kV: 11.25" (285,8 mm)<br>UniShield®, 8 kV: 13.5" (342,9 mm)<br>UniShield®, 15 kV: 18.5" (469,9 mm)<br>Concentric Neutral, 5 kV: 11.25" (285,8 mm)<br>Concentric Neutral, 8 kV: 13.5" (342,9 mm)<br>Concentric Neutral, 15 kV: 18.5" (469,9 mm) | 8-4/0 AWG<br>(10-100 mm²)          | 8-4/0 AWG<br>(10-100 mm²)          | 8-4/0 AWG<br>(10-100 mm²)          | -                                  |
| 5702      | 054007-11255 | Wire Shielded Cable, 5 kV: 12.75" (323,9 mm)<br>Wire Shielded Cable, 8 kV: 15" (381,0 mm)<br>Wire Shielded Cable, 15 kV: 20" (508,0 mm)<br>UniShield®, 5 kV: 11.25" (285,8 mm)<br>UniShield®, 8 kV: 13.5" (342,9 mm)<br>UniShield®, 15 kV: 18.5" (469,9 mm)<br>Concentric Neutral, 5 kV: 11.25" (285,8 mm)<br>Concentric Neutral, 8 kV: 13.5" (342,9 mm)<br>Concentric Neutral, 15 kV: 18.5" (469,9 mm) | 250-1000<br>kcmil<br>(150-500 mm²) | 250-1000<br>kcmil<br>(150-500 mm²) | 250-750 kcmil<br>(150-325 mm²)     | -                                  |
| 5703      | 054007-11263 | Wire Shielded Cable, 15 kV: 20" (508,0 mm)<br>UniShield®, 15 kV: 18.5" (469,9 mm)<br>Concentric Neutral, 15 kV: 18.5" (469,9 mm)<br>Tape Shield, 15 kV: 20" (508,0 mm)                                                                                                                                                                                                                                  | -                                  | -                                  | 800-1000<br>kcmil<br>(400-500 mm²) | 800-1000<br>kcmil<br>(400-500 mm²) |

# Non-Shielded Cable

| Section                                                                              | Page |
|--------------------------------------------------------------------------------------|------|
| Non-Shielded Cable.....                                                              | 297  |
| 3M™ Cold Shrink Termination Kits 5610-A Series for 5 & 8 kV Non-Shielded Cables..... | 297  |

## Non-Shielded Cable

## 3M™ Cold Shrink Termination Kits 5610-A Series for 5 & 8 kV Non-Shielded Cables

3M™ Cold Shrink Termination Kits 5610-A series provide an environmental seal to the terminal lug area of 5–8 kV unshielded power cable. Each kit contains material needed to seal three cable ends. Terminal lug must be ordered separately. Kits can be used for both indoor (protected) and outdoor (weather-exposed) applications.

The silicone rubber provides tracking protection for the lug ends of the cable.

|                        |                  |
|------------------------|------------------|
| Number of Conductors   | Single Conductor |
| Shielding Type         | Non-Shielded     |
| Indoor/Outdoor         | Both             |
| Breakout Boot          | No               |
| Insulation Rejacketing | No               |
| No. Skirts             | 0                |
| Voltage                | 5 kV, 8 kV       |
| Packaging              | 1 kit per case   |



| Order No. | UPC          | Max. Installed Length | Cable Insulation O.D.         | Conductor Size 5 kV & 8 kV                     |
|-----------|--------------|-----------------------|-------------------------------|------------------------------------------------|
| 5611A     | 054007-49549 | 7.5"<br>(191 mm)      | 0.31"-0.72"<br>(7,9-18,3 mm)  | 8-4 AWG<br>(10-16 mm <sup>2</sup> )            |
| 5612A     | 054007-49550 | 8.0"<br>(203 mm)      | 0.44"-0.95"<br>(11,2-24,1 mm) | 2-2/0 AWG<br>(35-60 mm <sup>2</sup> )          |
| 5613A     | 054007-49551 | 8.0"<br>(203 mm)      | 0.56"-1.18"<br>(14,2-30,0 mm) | 3/0 AWG-300 kcmil<br>(95-150 mm <sup>2</sup> ) |
| 5614A     | 054007-49552 | 8.0"<br>(203 mm)      | 0.95"-1.94"<br>(24,1-49,3 mm) | 350-1000 kcmil<br>(185-500 mm <sup>2</sup> )   |