Introducing the 3M™ Cold Shrink T-Body – an innovative application for field-proven Cold Shrink technology, pioneered by 3M

- Reliable and proven cold shrink technology
- Quick and easy installation
- Integrated design
- Your trusted partner for on-time project delivery and execution

Connect with Confidence
Cold shrink technology has been used by the power industry since 3M introduced it over 40 years ago, providing an easily installed, safe and reliable sealing solution for splices and terminations. Now, 3M introduces an innovative application for this field-proven technology, in the form of a differentiated separable connector (also called a deadbreak or T-Body).

This unique, separable connector is engineered for fast, economical installation and trouble-free performance in the field. 3M Cold Shrink T-Body 7706 Series is used for splicing, live end seal and connecting to dead-front equipment such as transformers, switches and switchgears with 600-Amp bushings. It is designed for 35 kV-rated cables and meets the requirements of ANSI/IEEE Standard 386, “Separable Insulated Connector Systems.”

The use of cold shrink technology virtually eliminates issues with cable adapters, and makes grounding and connector alignment easier – significantly reducing installation time and improving reliability. And every T-body that leaves our plant is 100% factory tested, to give you more confidence in your connections.

- One-step installation, sealing and grounding
- Easier and more ergonomic installation – no force-fitting required
- Conforms to the sweep of the cable
- More consistent connector/bushing interface alignment

The 3M™ Shearbolt Lug QLS Series offer easy installation without crimp tools or dies and meets the ANSI C119.4, Class 2 (partial tension) 40% pull out force requirements. They connect copper and/or aluminum conductors.
A technology breakthrough, designed to give you:

**Safer & more reliable operation**
- Designed to reduce common failure modes of push-on bodies
- Eliminates extra electrical interface between adapter and body
- Minimizes environmental exposure and risk of surface contamination
- Direct grounding system which eliminates bleed wire and provides strong ground connection to body
- Silicone materials conform to cable bends
- Excellent resistance to moisture, temperature extremes, chemicals and UV exposure

**Simplified handling**
- Simpler design means fewer components to stock and install
- Eliminates need for separate environmental seal
- Modular design allows custom splicing functions and configurations, including multiple taps, sectionalizing, dead-ending and adding-on

**Quick & easy installation**
- Simpler installation helps reduce errors for more reliable performance
- Faster installation saves time and helps keep project on track
- Installs without force, reducing ergonomic issues
- Insulating plug can be tightened with torque wrench and one-inch socket
- Easier lug alignment reduces chance of cross-threading
- T-body fits over lug and self-aligns on cable jacket
- Bolt-together components allow dead-break disconnecting and reuse of connecting components

**The Problem with Push-Ons**
Standard push-on 600-Amp deadbreak separable connectors require up to 15 cable adapters, a separate environmental seal and a shell grounding tab. Installation is time-consuming and labor-intensive. Cable adapters and T-bodies must be forcibly fit together, and misalignment problems are common.

Unlike push-on adapters and bodies, 3M™ Cold Shrink T-Body Connector 7706 Series installs without force. That means less time and energy spent wrestling components into position, and less risk of misalignment or other installation errors. At the same time, the cold shrink connector provides a better environmental seal and eliminates the need for bleed wires and many cable adapters.

**The integrated, simpler design of 3M™ Cold Shrink T-Body Connector 7706 Series replaces three conventional push-on parts.**
3M™ Cold Shrink T-Body Connector 7706 Series 600-Amp/35 kV

<table>
<thead>
<tr>
<th>Kit Number</th>
<th>Primary Cable Installation O.D. Range in (mm)</th>
<th>Max Jacket O.D. Range in (mm)</th>
<th>Conductor Size Range kcmil</th>
<th>Shielding Type</th>
<th>Lug Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>7706-35TC-D2E-A</td>
<td>1.01–1.50 (25.7–38.1)</td>
<td>1.80 (45.7)</td>
<td>1/0–250</td>
<td>JCN</td>
<td>Compression Connector</td>
</tr>
<tr>
<td>7706-35TC-D2E</td>
<td>1.31–2.00 (33.3–50.8)</td>
<td>2.30 (58.4)</td>
<td>350–1000</td>
<td>JCN</td>
<td>Compression Connector</td>
</tr>
<tr>
<td>7706-35TC-D2E-G</td>
<td>1.31–2.00 (33.3–50.8)</td>
<td>2.30 (58.4)</td>
<td>350–1000</td>
<td>TS</td>
<td>Compression Connector</td>
</tr>
<tr>
<td>7706-35TC-D2E-B</td>
<td>1.35–2.30 (34.2–58.4)</td>
<td>2.80 (71.1)</td>
<td>500–1250</td>
<td>JCN</td>
<td>Compression Connector</td>
</tr>
<tr>
<td>7706-35TC-D2E-B-XB</td>
<td>1.31–2.30 (33.3–58.4)</td>
<td>2.80 (71.1)</td>
<td>350–1250</td>
<td>JCN used in Cross-Bond Applications</td>
<td>Compression Connector</td>
</tr>
<tr>
<td>7706-35TC-D2E-A-SB</td>
<td>1.01–1.50 (25.7–38.1)</td>
<td>1.80 (45.7)</td>
<td>1/0–250</td>
<td>JCN</td>
<td>Shearbolt Connector</td>
</tr>
<tr>
<td>7706-35TC-D2E-SB</td>
<td>1.31–2.00 (33.3–50.8)</td>
<td>2.30 (58.4)</td>
<td>350–750</td>
<td>JCN</td>
<td>Shearbolt Connector</td>
</tr>
<tr>
<td>7706-35TC-D2E-G-SB</td>
<td>1.31–2.00 (33.3–50.8)</td>
<td>2.30 (58.4)</td>
<td>350–1000</td>
<td>TS</td>
<td>Shearbolt Connector</td>
</tr>
<tr>
<td>7706-35TC-D2E-B-SB</td>
<td>1.35–2.00 (34.2–50.8)</td>
<td>2.80 (71.1)</td>
<td>750–1250</td>
<td>JCN</td>
<td>Shearbolt Connector</td>
</tr>
<tr>
<td>7706-35TC-D2E-B-XB-SB</td>
<td>1.31–2.30 (33.3–58.4)</td>
<td>2.80 (71.1)</td>
<td>350–1250</td>
<td>JCN used in Cross-Bond Applications</td>
<td>Shearbolt Connector</td>
</tr>
<tr>
<td>7706-35TC-D2E-A-G-SB</td>
<td>1.01–1.50 (25.7–38.1)</td>
<td>1.80 (45.7)</td>
<td>1/0–250</td>
<td>TS</td>
<td>Shearbolt Connector</td>
</tr>
<tr>
<td>7706-35TC-D2E-A-G</td>
<td>1.01–1.50 (25.7–38.1)</td>
<td>1.80 (45.7)</td>
<td>1/0–250</td>
<td>TS</td>
<td>Compression Connector</td>
</tr>
</tbody>
</table>

Support from start to finish

3M is your trusted partner in cable connections. Our portfolio of innovative electrical products is backed by a network of technical support, sales and supply chain specialists. Their expertise is always available to help you select the best solution for your requirements – with training, installation assistance, custom configurations and more.

For more information or to schedule a field trial, call 1-800-245-3573 or visit us online at www.3M.com/electrical.

3M is a trademark of 3M Company.

Important Notice

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

Warranty; Limited Remedy; Limited Liability.

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

3M Electrical Markets Division
6801 River Place Blvd.
Austin, TX 78726-9000
800 245 3573
FAX 800 245 0329
www.3m.com/electrical

Please recycle. Printed in USA.
© 3M 2014. All rights reserved.
Issued: 10/14 9994HB
80-6016-0462-4