



3M Science.
Applied to Life.™

3M™ Cold Shrink Solutions

**Quick and Reliable
Low Voltage Insulation.**

Use the right stuff.

3M™ Cold Shrink Low Voltage Insulators and Cable Accessories

3M Cold Shrink insulators and accessories offer a safe, easy to install method of insulating, sealing and protecting connectors, hoses, fittings, conduit and cable. They are well suited for in-field applications because they require no special tools or heat to install.

The unique 3M cold shrink delivery system ensures consistent installation and long term reliability. With 3M cold shrink insulators and accessories you get a water resistant seal without heat, torches or adhesive; simply unwind the core to install. It's that simple.

Why move to 3M Cold Shrink Technology?

- ▶ No flame required
- ▶ Less chance of damaging cable material
- ▶ No cooling time needed before energising
- ▶ Constant radial pressure for optimised environmental performance
- ▶ Easier to use in enclosed areas
- ▶ No special site permits needed
- ▶ Fast, straightforward installation

3M™ Cold Shrink End Caps EC-Series

3M cold shrink End Caps EC-Series are close-ended, tubular rubber sleeves that are factory expanded and loaded onto a removable core. When positioned over the end of a cable or other cylindrical object, the core is removed to provide a reliable environmental seal. Four different end caps are available to accommodate a wide range of sizes. They are easily installed and can be removed cleanly.

Applications

- ▶ Environmentally seal and mechanically protect exposed cable ends using no tools, mastics or tapes
- ▶ Protect cables and pipes from exposure to moisture, contamination, corrosion, ozone, ultra-violet radiation and other environmental hazards

Product Range Includes:



Cable End Caps



Cold Shrink Tubes



Inline Joint Kits

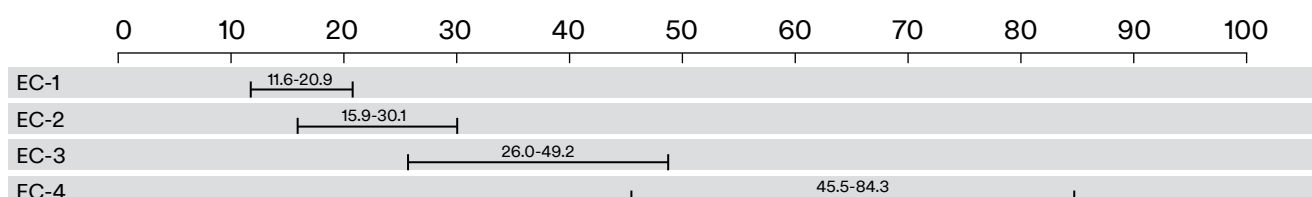


Cable Abandonment Kits



Product	3M Order Code	Colour	Cable Diameter
EC-1	7100014223	Black	11.6 - 20.9 mm
EC-2	7000138640	Black	15.9 - 30.1 mm
EC-3	7100016661	Black	26.0 - 49.2 mm
EC-4	7100014622	Black	45.5 - 84.3 mm

Cable Diameter (mm)



3M™ Cold Shrink Connector Insulators 8420 and 8430 Series

3M cold shrink Connector Insulators 8420 and 8430 Series are designed using 3M's unique cold shrink delivery system. Products are supplied pre-stretched on a removable core for efficiency and ease of installation. Removal of the core (unwinding) after positioning the joint allows the product to shrink into position forming a moisture-tight seal. The live memory action of the specially formulated EPDM material promotes a permanent and durable environmental seal, and insulation, with a typical operating temperature range from -40°C to 90°C.

Important: Use cable insulation/jacket diameters and connector outer diameter for final sizing confirmation.

Applications

- ▶ Primary electrical insulation for all solid dielectric (rubber and plastic) insulated wire and cable jointing rated to 1000 V
- ▶ Good for repairs and environmental sealing for communication and other non-electrical applications



Product	3M Order Code	Minimum Cable Diameter for Seal	Maximum Diameter (Cable or Connector)	Maximum Connector Length	Relaxed Tube Length
8423-6	7000058442	7.8 mm	14.3 mm	51 mm	152 mm
8424-8	7000006124	2.54 mm	20.9 mm	76 mm	203 mm
8425-8	7000031605	10.1 mm	20.9 mm	76 mm	203 mm
8426-9	7000006132	13.9 mm	30.1 mm	127 mm	229 mm
8426-11	7000006133	13.9 mm	30.1 mm	178 mm	279 mm
8427-6*	7000132443	16.8 mm	35.1 mm	51 mm	152 mm
8427-12	7000005943	16.8 mm	35.1 mm	203 mm	305 mm
8427-16	7100010774	16.8 mm	35.1 mm	305 mm	406 mm
8428-6*	Code Available Later	24 mm	49.3 mm	51 mm	152 mm
8428-8	7100014045	24 mm	49.3 mm	76 mm	203 mm
8428-12	7000005950	24 mm	49.3 mm	203 mm	305 mm
8428-18	7000005944	24 mm	49.3 mm	356 mm	457 mm
8429-6*	Code Available Later	32.2 mm	67.8 mm	51 mm	152 mm
8429-9	7000145516	32.2 mm	67.8 mm	127 mm	229 mm
8429-12	Code Available Later	32.2 mm	67.8 mm	203 mm	305 mm
8429-15	Code Available Later	32.2 mm	67.8 mm	280 mm	381 mm
8429-18	7000031458	32.2 mm	67.8 mm	356 mm	457 mm
8430-9*	Code Available Later	42.6 mm	93.7 mm	127 mm	229 mm
8430-18	7000031603	42.6 mm	93.7 mm	356 mm	457 mm

Note: Insulation, connector and/or jacket can be overwrapped with Scotch® Rubber Mastic Tape 2228 to build up diameter if required.

* These sizes are not designed to be used as primary insulation. These shorter length tubes are for conduit sealing and breakouts 8424-8 contains range-extending adaptors

For 8420 and 8430 Series cold shrink tubes continuously exposed to high levels of UV radiation, 3M recommends overwrapping with Scotch® Super 33+™ Vinyl Electrical Tape or Scotch® Self Fusing Silicone Rubber Tape 70. Other sizes of cold shrink tubes are available on request – please contact 3M.

3M™ Low Voltage Inline Joint Kits

5732-5735 Series

These kits are suitable for indoor and outdoor installations, including direct burial, aerial and submersible applications. For use with three core armoured cable up to 1000 V. Connectors are not included, pre-insulated crimp connectors preferred.



Product	3M Order Code	Cable Size	Cable Diameter
5732	Code Available Later	35 - 50 mm ²	24 - 61 mm
5733	Code Available Later	70 - 120 mm ²	29 - 84 mm
5734	Code Available Later	120 - 240 mm ²	39 - 102 mm
5735	Code Available Later	240 - 400 mm ²	39 - 102 mm

Note: If increased structural integrity is required, the joint can be overwrapped with two-half lapped layers of 3M™ Armocast Structural Material (purchased separately). For 3 metre long rolls, use the following number of rolls per kit: 5732 (2 rolls), 5733 & 5734 (3 rolls) and 5735 (5 rolls).

3M™ Cold Shrink Cable

Abandonment Kits CSCAK Series

3M cold shrink Cable Abandonment Kits are a complete solution to abandon low voltage polymeric cables either temporarily or permanently. Environmental sealing and mechanical protection is provided using 3M cold shrink technology, eliminating the need for heat and special tools, making a quick, simple and reliable installation.

Applications

- ▶ Single and multi core low voltage polymeric power cables up to and including 1.9/3.3 kV (with or without lead sheath and/or armour)

Kit Contents

- ▶ Cold shrink end cap
- ▶ Cold shrink tube
- ▶ Self-amalgamating insulating tape
- ▶ Armour/earth connection components
- ▶ Full installation instructions



Product	3M Order Code	Cable Diameter
CSCAK/1	7000099392	12 - 18 mm
CSCAK/2	7000099393	18 - 25 mm
CSCAK/3	7000099394	25 - 42 mm
CSCAK/4	7000099395	42 - 55 mm
CSCAK/5	7000099396	56 - 81 mm

Medium voltage (up to 33 kV) joints and terminations using cold shrink technology are available from 3M. Please contact your 3M representative for details.

Important Notice: The information may not be valid for any use not referred to in this document or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

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