



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

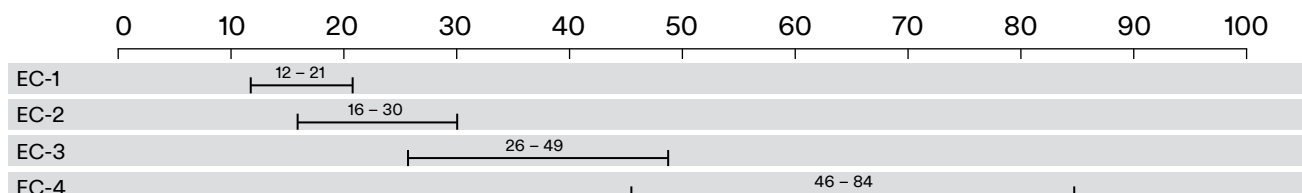


Cable Abandonment Kits



Product	3M Order Code	Colour	Cable Diameter
EC-1	XA003895001	Black	12 - 21 mm
EC-2	XA003895019	Black	16 - 30 mm
EC-3	XA003895027	Black	26 - 49 mm
EC-4	XA003895035	Black	46 - 84 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	Typical Cable Size	Minimum Cable Diameter for Seal	Maximum Diameter (Cable or Connector)	Maximum Connector Length	Relaxed Tube Length
8423-6	80610839484	14 - 16 mm ²	7.8 mm	14 mm	51 mm	152 mm
8424-8	80610921928	6 - 50 mm ²	2.5 mm	21 mm	76 mm	203 mm
8425-8	80610921936	35 - 50 mm ²	10 mm	21 mm	76 mm	203 mm
8426-9	80610927669	70 - 125 mm ²	14 mm	30 mm	127 mm	229 mm
8426-11	80610927677	70 - 125 mm ²	14 mm	30 mm	178 mm	279 mm
8427-6*	80610456164	-	17 mm	35 mm	51 mm	152 mm
8427-12	80610134035	125 - 200 mm ²	17 mm	35 mm	203 mm	305 mm
8427-16	80610134043	125 - 200 mm ²	17 mm	35 mm	305 mm	406 mm
8428-6*	80610456172	-	24 mm	49 mm	51 mm	152 mm
8428-8	80611230212	300 - 400 mm ²	24 mm	49 mm	76 mm	203 mm
8428-12	80610154603	300 - 400 mm ²	24 mm	49 mm	203 mm	305 mm
8428-18	80610134050	300 - 400 mm ²	24 mm	49 mm	356 mm	457 mm
8429-6*	80610456180	-	32 mm	68 mm	51 mm	152 mm
8429-9	80610456313	500 mm ²	32 mm	68 mm	127 mm	229 mm
8429-12	80610921910	500 mm ²	32 mm	68 mm	203 mm	305 mm
8429-15	80610970446	500 mm ²	32 mm	68 mm	280 mm	381 mm
8429-18	80610134068	500 mm ²	32 mm	68 mm	356 mm	457 mm
8430-9*	80610839492	630 - 1000 mm ²	43 mm	94 mm	127 mm	229 mm
8430-18	80610921902	630 - 1000 mm ²	43 mm	94 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	80610981740	35 - 50 mm ²	24 - 61 mm
5733	80610981757	70 - 120 mm ²	29 - 84 mm
5734	80610981765	120 - 240 mm ²	39 - 102 mm
5735	80610981773	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™ Armorcass 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	TE100048780	12 - 18 mm
CSCAK/2	TE100048798	18 - 25 mm
CSCAK/3	TE100048806	25 - 42 mm
CSCAK/4	TE100048814	42 - 55 mm
CSCAK/5	TE100048822	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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