# 3M<sup>™</sup> Cold Shrink End Caps EC-Series

Data Sheet November 2013



### Description

3M Cold Shrink End Caps 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.

## Agency Approvals & Self Certifications

RoHS 2011/65/EU

"RoHS 2011/65/EU" means that the product or part does not contain any of the substances in excess of the maximum concentration values ("MCVs") in EU RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

### **EHS**

### **△CAUTION**

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

3M Cold Shrink Removable Core is a mixed polymer and recyclable with waste.



 Read all Health Hazard, Precautionary and First Aid statements found in the Material Safety Data Sheet (MSDS) and/or product label prior to handling or use.

### **Applications**

Moisture sealing and physical protection for cables, pipes or other cylindrical objects.



### 3M<sup>™</sup> Cold Shrink End Caps EC-Series

### **Features**

- · Simple and fast installation, no tools required
- Accommodates size ranges from 0.46" -3.32"
- · Good abrasion resistance
- · Seals tight, retains resiliency for years
- Water resistant
- · No mastic or tape required
- · Resists acids and alkalis
- · Resists ozone
- · Easy removal

# Typical Physical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F ( $\sim$ 23°C) unless otherwise stated.

#### **EPDM Rubber**

Physical Property (Test Method)	Typical Value US units (metric)
Color	Black
<b>300% Modulus</b> (ASTM D 412-87)	480 psi (3,3 MPa)
Ultimate Tensile (ASTM D 412-87)	1400 psi (9,6 MPa)
Ultimate Elongation (ASTM D 412-87)	750%
Die C Tear (ASTM G-21)	150 pli (26,3 KN/m)
<b>Moisture Absorption -</b> 7 days in H <sub>2</sub> O	Wt. Gain 1.8%

### **Selection Chart**

Use Range		
Product #	inches	(mm)
EC-1	0.46 - 0.82	(11,6 - 20,9)
EC-2	0.63 - 1.18	(15,9 - 30,1)
EC-3	1.02 - 1.94	(26,0 - 49,2)
EC-4	1.79 - 3.32	(45,5 - 84,3)

### Maintenance

3M Cold Shrink End Caps EC-Series are stable under normal storage conditions. The end caps are not impaired by freezing or overheating due to ambient temperatures encountered during shipping or storage. Normal storage and stock rotation are recommended.

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Shelf Life & Storage	This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).
Availability	Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1.800.245.3573.

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Electrical Markets Division 6801 River Place Blvd. Austin, TX 78726-9000 800.245.3573 FAX: 800.245.0329 www.3M.com/electrical

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