

3M™ EC Series Cold Shrink EPDM Rubber End Caps

Product Description

3M™ Cold Shrink End Caps environmentally seal and mechanically protect exposed cable ends using no tools, mastics or tapes. They are close-ended, tubular EPDM 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 seal that protects your cable ends from environmental damage. They are easily installed and cleanly removable. Whether in transit from the manufacturer, stored in the cable yard, or in process in a trench, your cable ends are protected from exposure to moisture, contamination and corrosion. Four different end caps are available to accommodate a wide range of sizes.

Application

The 3M™ Cold Shrink EC Series End Caps protect cables, pipes and other cylindrical objects from exposure to moisture, contamination, corrosion, ozone, ultra-violet radiation, physical contact and other environmental hazards.

Features

- Simple and fast installation, no tools required.
- Accommodates size ranges from 11.6mm – 84.3mm.
- Good abrasion resistance.
- Seals tight, retains resiliency and pressure even after prolonged years of aging and exposure.
- Water-resistant.
- No mastic or tape required.
- No torches or heat required.
- Resists acids and alkalis.
- Resists ozone.
- Easily removed.
- No training required for installation.

Installation

The 3M™ Cold Shrink EC-Series End caps install quickly and cleanly without flame or grease. Cold Shrink end caps are factory expanded on removable inner-supporting plastic cores. Once the end cap is positioned for installation around the end of a cable, the supporting core is unwound and removed. With the core removed, the live-memory action of the specially formulated material shrinks the end cap into position. The constant radial pressure of the Cold Shrink material ensures a durable environmental seal. The Cold Shrink material resists abrasion, fungus, acids or alkalis, and retains its resiliency for years. Freezing or overheating due to ambient temperatures encountered during shipping or storage does not impair the end caps.

Removal

Once installed, the 3M™ Cold Shrink End Caps can be easily removed from the cable. Simply lift the edge of the end cap; slice the material with a utility knife and the end cap comes off cleanly, leaving no adhesive residue or grease.

Shelf Life

3M™ Cold Shrink End Caps have a 5 year shelf life from date of manufacture when stored at the recommended temperature of 10-27°C at <75% Relative Humidity.

Material Properties

Test Methods	Typical Value
Colour	Black
300% Modulus (ASTM D-412-75)	480 psi
Ultimate Tensile (ASTM D-412-75) Original	1400 psi
Ultimate Elongation (ASTM D-412-75) Original	750%
Die C tear (ASTM D-624C-73) Original	150 pli
Fungus Resistance (ASTM G-21) 28 days exposure	No Growth
Moisture Absorption 7 days @90°C in H ₂ O	1.8% wt. Gain

Product Selection

Part number	Usage Range (diameter)	Length as supplied	Estimated Length after free recovery	Total length of supporting spiral
EC-1	11.6 – 20.9mm	60mm	60mm	80mm
EC-2	15.9 – 30.1mm	60mm	65mm	90mm
EC-3	26.0 – 49.2mm	60mm	70mm	90mm
EC-4	45.5 – 84.3mm	70mm	85mm	90mm

Product Stewardship

3M has a fundamental concern for all who make, distribute and use its products, and for the environment in which we live. This concern is the basis of our philosophy and policies by which we assess the health and environmental information on our products and then take the appropriate steps to protect employee, the public health and the environment.

Customer Notice

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