

3M™ Insulated Conductor Covers CCI Series

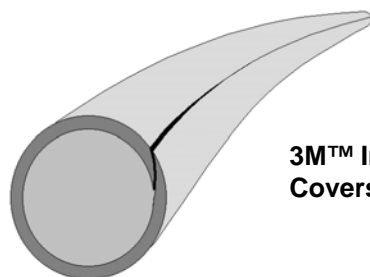
Data Sheet

June 2013

Product Description

The 3M™ Insulated Conductor Covers CCI Series are extruded silicone rubber products that are designed for field installation over bare conductors and metal mounting brackets. These covers provide a layer of electrical insulation for phase-to-phase and phase-to-ground protection from bird contact. They are cut to length in the field for a proper fit. The silicone rubber material provides electrical insulation, UV resistance and tracking resistance. These products are designed to provide protection for both equipment and birds.

The CCI series conductor covers are designed to insulate bare aerial conductors from adjacent phases and grounded equipment. The covers are made with a full-length longitudinal bias cut to provide an increased creepage distance between the conductor and the outer surface of the cover, and to allow for easy slip-on installation. The covers are offered in two thickness sizes for covering both 15 kV and 25 kV- rated conductors. The products are available in ACSR conductor sizes from 2 AWG to 266 kcmil.



**3M™ Insulated Conductor
Covers CCI Series**

Product Features

Silicone Rubber

- Excellent UV resistance
- Excellent arc resistance
- Excellent ozone resistance
- Good dielectric strength
- Good cold weather installation
- Good conformability
- Munsel Grey (sky blue) color

Longitudinal Bias Cut

- Increased creepage distance
- Easy field installation
- No special installation tools

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Applications

To provide an over-wrap layer of electrical insulation as an animal or bird guard for cross-arm mounting brackets and 15-25 kV overhead conductors:

- For ACSR conductors
- For ACSR, 2 AWG - 266 kcmil
- For covering 15 and 25 kV rated conductors

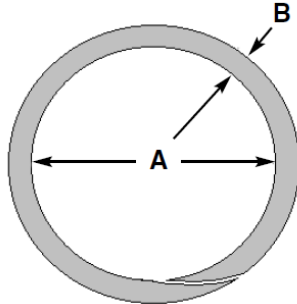
Typical Properties

Physical Properties		Typical Value
Color		Munsel Grey
Material		Silicone Rubber
Electrical Properties		Typical Value
Dielectric Strength	ASTM-D-149	235V/mil

Values are averages and are not intended for specification purposes

Typical Dimensions

3M™ Insulated Conductor Covers CCI Series



Product No.	Dimension	
	A	B
CCI-2-125	0.34" (9 mm)	0.125" (3 mm)
CCI-2/0-125	0.46" (12 mm)	0.125" (3 mm)
CCI-266-125	0.63" (16 mm)	0.125" (3 mm)
CCI-2/0-200	0.46" (12 mm)	0.200" (5 mm)
CCI-266-200	0.63" (16 mm)	0.200" (5 mm)

Product Selection Table

CCI Series Conductor Covers

Product No.	ACSR Conductor Size	Conductor Voltage Rating
CCI-2-125	2 AWG	15 kV
CCI-2/0-125	2/0 AWG	
CCI-266-125	266 kcmil	
CCI-2/0-200	2/0 AWG	25 kV
CCI-266-200	266 kcmil	

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Product Specification (Open) When adequate phase separation is not possible, or when conductors are in close proximity to energized equipment, the aerial conductor shall be protected from direct bird contact. The protective conductor cover shall be made of silicone rubber. It shall be in the form of a sleeve with a full-length longitudinal bias cut for installation. The conductor cover shall be secured at each end with an application of silicone rubber tape.

Engineering/ Architectural (Closed) When adequate phase separation is not possible, or when conductors are in close proximity to energized equipment, the aerial conductor shall be protected from direct bird contact with 3M™ Insulated Conductor Covers CCI Series. The CCI Cover shall be cut to the proper length, slipped over the conductor, and secured at each end with Scotch® Silicone Rubber 70 Tape.

Installation Techniques The CCI series are installed simply by cutting them to the proper length, opening them up and snapping them onto the conductor. The CCI series contain a full length longitudinal bias slit that is opened up to fit over the aerial conductor. The CCI products can be secured into place by wrapping the ends with Scotch Silicone Rubber 70 Tape. Outdoor rated cable ties may also be used to secure them.

Shelf-Life The CCI Series conductor cover has a 5 year shelf life following the date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).

Availability The CCI series are available from your local authorized 3M electrical distributor.

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