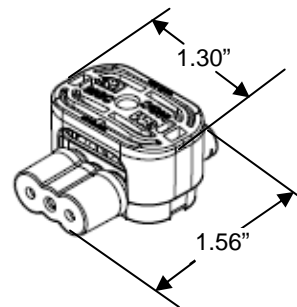


# 3M™ Moisture Guard Connector (MGC)

## Insulation Displacement Connector



Data Sheet

January 2010

### Applications

The 3M™ Moisture Guard Connector is designed for use in the installation and repair of Irrigation and Landscape Lighting systems or other applications requiring moisture and UV protection. The connector will connect and provide protection for two or three conductors.

**NOTE:** Not recommended for submersible applications

### Specifications

Maximum Voltage Rating	600 V maximum building wire 1000 V maximum signs, fixtures and luminaries
Maximum Operating Temperature	105° C
Flammability	UL94 V2
C UL Listed	File # E23438

#### Construction:


Body	UV Resistant Polycarbonate
Element	Tin Plated Brass .035 in thick
Barrier Cap	TPE
Grease	Mineral Oil Base EG3

#### Wire Range:

Outside Ports	12 AWG str 14-16 AWG sol/str (2,5mm <sup>2</sup> – 1,0mm <sup>2</sup> ) Maximum Insulation Diameter: .210 inches
Inside Port	18 AWG sol/str (0,75mm <sup>2</sup> ), 20 AWG str (0,5 mm <sup>2</sup> ) Maximum Insulation Diameter: .150 inches

**Note:** For use with common thermoplastic insulation types, Copper Conductors Only  
C UL Listed with AWG Sizes only.

### Installation

 **Warning**

Turn power off before installing or removing terminal. All electrical work should be done according to appropriate electrical codes.

#### Recommended Installation Tools : Large slip joint pliers

1. Insert un-stripped conductors into applicable ports. Visually check that the conductors are inserted all the way to the end of the connector.
2. Position tool in the center of the cap perpendicular to conductors.
3. Make the connection by pushing the cap down so the sides of the cap are flush with the bottom of connector and you hear the "click" of the alignment tabs locking into place.

**NOTE:** If the cap is pushed down during shipping and blocks the wire port, lift the cap until the element is out of the wire path.

#### Installation Tips:

- 1) Cut insertion ends of wire at an angle to help puncture through the rubber barrier cap.
- 2) Keep fingers close to the end of the wire when pushing the wire through the rubber barrier cap.

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<b>Shelf Life &amp; Storage</b>	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).
<b>Availability</b>	Please contact your local distributor; available from <a href="http://3M.com/electrical">3M.com/electrical</a> [Where to Buy] or call 1-800-245-3573.

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