



# HYDRO CONNECT

## 3M Scotchlok Insulation Displacement Cable Connectors

### Irrigation Valve Cable Connectors

**HC-WC316IR, HC-WC314**

HOUSING: **Nylon**

INSERT: **Tin Plated Brass**

TEMPERATURE: **105°C**

SEALANT: **Mineral Oil Base EG3 Grease**

UL Listed for 600 V and UL486C in damp/wet location.

UV and moisture resistant for above ground installation, or in a valve box.

Not to be used in direct burial or continuous submersion applications.

Cable insulation stripping is not required.

#### SCOPE:

3M Insulation Displacement Connectors (IDC) are designed for use in the installation and repair of Irrigation and Landscape Lighting systems or other applications requiring moisture and UV protection. IDC's will connect and provide protection for two or three conductors. Connections are made without stripping the insulation from the wires. Applications include residential and commercial/industrial projects.

#### FEATURES:

##### **No stripping of wires**

The connector utilizes the proven 3M "Insulation Displacement Connector" method whereby a copper element cuts through the sides of the wire insulation and applies inward pressure to the copper conductor. This makes a secure, reliable connection.

##### **Two models/sizes**

The 316IR and 314.

##### **A waterproof grease**

protects the electrical connection from moisture and water. For above ground or valve box installation. Not to be used in continuous submersion applications.

##### **Quick and easy to use**

Simply slide the un-stripped wires inside the connector ports and push the lid down using a pair of long-handled slip joint pliers.

##### **Conductor stays protected**

During the installation process, cable is sometimes stretched. When the cable is cut the insulation slowly shrinks back. The copper blades of 3M's IDC's only cut the sides of the insulation, ensuring the insulation is held inside the gel-filled connector protecting the conductor.

##### **The wire range**

is ideal for residential, commercial and industrial projects.

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## 3M Scotchlok Insulation Displacement Cable Connectors

### Irrigation Valve Cable Connectors

#### Rated for 600 volts

Listed under UL486C for USA and Canada

Manufactured in the U.S.A by the 3M Company

#### INSTALLATION:



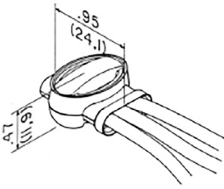
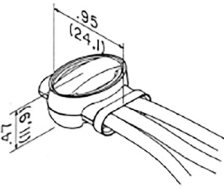
**NOTE:** FOR USE ON COPPER WIRE ONLY. DO NOT USE ON ALUMINUM WIRE.  
ONE TIME USE ONLY. DO NOT REUSE CONNECTOR.

#### Installation instructions:

Turn off power before removing or installing connectors. Recommended Installation Tools: Large slip joint pliers or 3M Crimping Tool E-9BM

1. Insert 2 or 3 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 centre 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

**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.

Code		HC-WC316IR	HC-WC314
			
Dimensions			
Size		Small	Small
Cable Range Solid and stranded cable combinations unless stated otherwise	Outside Ports	0.5-1.0mm <sup>2</sup> Min 2 x 0.5mm <sup>2</sup> Max 2 x 1.0mm <sup>2</sup>	0.5-1.5mm <sup>2</sup> Min 2 x 0.5mm <sup>2</sup> Max 2 x 1.5mm <sup>2</sup>
	Inside Port	0.5-1.0mm <sup>2</sup> (total 3 wires max)	0.5-1.5mm <sup>2</sup> (total 3 wires max)
Pack Size		Bag of 30	Bag of 50