



# 316 IR

## Insulation Displacement Connector for Irrigation

### Data Sheet

**Application:** Use 3M Brand 316 IR to electrically connect two or three wire ends, insulate the connection, and provide a moisture resistant seal. Recommended for use with low energy underground circuit wires, sprinkler systems, landscape lighting or other moisture resistant applications of less than 30 volts.

**Catalog No:** 316 IR

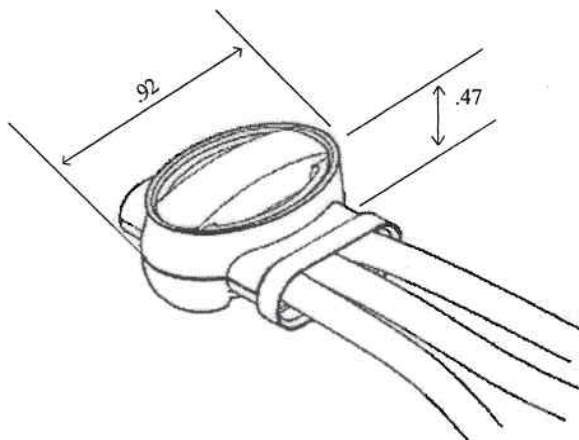
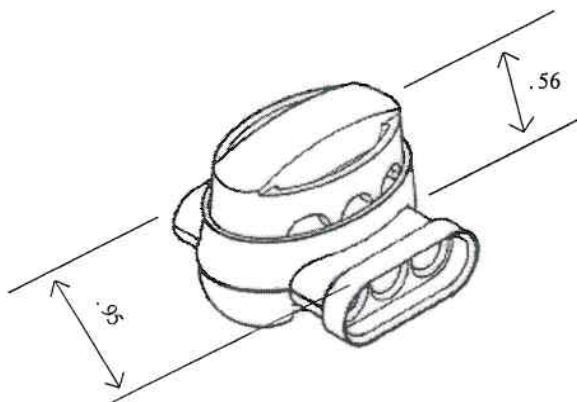
#### Specifications:

Wire Range:	22-16 AWG solid or stranded copper conductors with max. insulation of .155 inches
U-Contact:	Tin Plated Brass, .02 in. (0,5 mm) thick
Insulator:	Flame Retardant Nylon
Sealant:	Mineral oil base EG-3 grease
Weight:	.0077 lb. (3.49 gm.)
Recommended Installation Tool:	3M™ No. E-9BM Crimping Tool; 8" slip-joint pliers

#### Installation Instructions:

**CAUTION** — Turn power off before installing connector. All electrical work should be done according to appropriate electrical codes. Use with circuits less than 30 volts. Use with insulated copper conductors. Do not strip insulation from conductors.

1. Insert 2 or 3 unstripped conductors completely into connector and check their position by looking through the translucent body.
2. Hold tool perpendicular to the conductors and make the connection by driving the cap down flush with the top edge of the connector body.



## 3M™ 316 IR Insulation Displacement Connector for Irrigation

### Engineering Specification:

A self-stripping electrical connector for connecting two or three conductors in the range of 22 thru 16 AWG solid or stranded copper conductors with a maximum insulation diameter of .155. This connector will be manufactured by 3M and provide a low voltage connection (less than 30 volts ) that will be made in a pigtail application while providing a moisture resistant seal.

### For Material Safety Data Sheet Contact:

Electrical Products Division/3M  
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