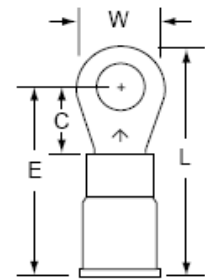


# 3M™ Highland™ Terminals

RV10-6 thru RV18-516

Ring tongue, Vinyl Insulated, Butted Seam



Data Sheet

October 2008

| Product Number | Wire Range (AWG) | Stud Size | W    | C    | L    | E    | Thickness | Barrel Length | Barrel I.D. | Maximum Insulation Diameter |
|----------------|------------------|-----------|------|------|------|------|-----------|---------------|-------------|-----------------------------|
| RV10-6         | 12-10            | 6         | 0.38 | 0.29 | 1.03 | 0.84 | 0.040     | 0.25          | 0.135       | 0.250                       |
| RV10-8         | 12-10            | 8         | 0.38 | 0.29 | 1.03 | 0.84 | 0.040     | 0.25          | 0.135       | 0.250                       |
| RV10-10        | 12-10            | 10        | 0.38 | 0.29 | 1.03 | 0.84 | 0.040     | 0.25          | 0.135       | 0.250                       |
| RV10-14        | 12-10            | 1/4       | 0.53 | 0.44 | 1.26 | 0.99 | 0.040     | 0.25          | 0.135       | 0.250                       |
| RV10-38        | 12-10            | 3/8       | 0.53 | 0.44 | 1.26 | 0.99 | 0.040     | 0.25          | 0.135       | 0.250                       |
| RV10-516       | 12-10            | 5/16      | 0.54 | 0.44 | 1.26 | 0.99 | 0.040     | 0.25          | 0.135       | 0.250                       |
| RV14-4         | 16-14            | 4         | 0.25 | 0.22 | 0.80 | 0.67 | 0.030     | 0.25          | 0.090       | 0.170                       |
| RV14-6         | 16-14            | 6         | 0.25 | 0.22 | 0.80 | 0.67 | 0.030     | 0.25          | 0.090       | 0.170                       |
| RV14-8         | 16-14            | 8         | 0.33 | 0.22 | 0.80 | 0.67 | 0.030     | 0.25          | 0.090       | 0.170                       |
| RV14-10        | 16-14            | 10        | 0.33 | 0.29 | 0.90 | 0.74 | 0.030     | 0.25          | 0.090       | 0.170                       |
| RV14-14        | 16-14            | 1/4       | 0.47 | 0.40 | 1.08 | 0.85 | 0.030     | 0.25          | 0.090       | 0.170                       |
| RV14-516       | 16-14            | 5/16      | 0.47 | 0.40 | 1.08 | 0.85 | 0.030     | 0.25          | 0.090       | 0.170                       |
| RV18-4         | 22-18            | 4         | 0.25 | 0.22 | 0.80 | 0.67 | 0.030     | 0.25          | 0.070       | 0.145                       |
| RV18-6         | 22-18            | 6         | 0.25 | 0.22 | 0.80 | 0.67 | 0.030     | 0.25          | 0.070       | 0.145                       |
| RV18-8         | 22-18            | 8         | 0.31 | 0.33 | 0.93 | 0.78 | 0.030     | 0.25          | 0.070       | 0.145                       |
| RV18-10        | 22-18            | 10        | 0.31 | 0.33 | 0.93 | 0.78 | 0.030     | 0.25          | 0.070       | 0.145                       |
| RV18-14        | 22-18            | 1/4       | 0.47 | 0.40 | 1.08 | 0.85 | 0.030     | 0.25          | 0.070       | 0.145                       |
| RV18-516       | 22-18            | 5/16      | 0.47 | 0.40 | 1.08 | 0.85 | 0.030     | 0.25          | 0.070       | 0.145                       |

## Agency Approvals, Self Certification

UL Listed – tested per UL Standard No. UL-486A-486B, 3M File No. E23438.

CSA Certified, CSA Standard C22.2, No. 0,65, 3M File No LR22190.

# 3M™ Highland™ Terminals RV10-6 thru RV18-516

## Ring Tongue, Vinyl Insulated, Butted Seam

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### Specifications

|                         |   |
|-------------------------|---|
| Wire Size:              | See Table Above   |
| Barrel Seam:            | Butted  |
| Maximum Voltage Rating: | 600 V Building Wire or<br>1000 V Signs or Fixtures (Luminaires) |
| Maximum Operating Temp: | 221°F (105°C)   |
| Maximum Current:        | Same as Wire  |
| Insulator Material:     | Vinyl   |
| Terminal Material:      | ETP Copper  |
| Terminal Planting:      | Tin   |

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### Installation Information

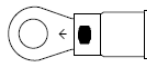
#### **WARNING**

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

UL Listed and CSA Certified for use on stranded copper (AWG) wire only.

Strip away the end 3/8 inch of wire insulation.

Make the crimp in the proper station of a recommended 3M™ Scotchlok™ Crimp Tool: TH-440, TH-450 (scissor style) or TR-490 (ratchet style) hand tools.



 Barrel Crimp (Electrical)

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### Engineering Specification

Crimp-type terminals shall, electrically and mechanically, connect to the pre-stripped end of a stranded copper wire, and have a flat tongue portion with a central opening for mounting around a screw or stud.

The terminal line shall offer barrel variations in hole (stud) size (6, 8, 10, etc.) and configuration (ring, fork, block fork, flanged block fork, locking fork, etc.), and barrel variations in wire (AWG) size (22-18, 16-14, 12-10, etc.); and construction (non-insulated brazed seam, vinyl insulated butted seam, vinyl insulated with insulation grip, etc.). The terminal line shall have regulatory agency coverage (UL Listing, CSA Certification). The terminal tongue shall be marked with the wire range and manufacturer's symbol (↑)

The vinyl-Insulated, butted seam ring tongue terminal shall be tin-plated, annealed copper, with the tongue having a specified stud hole (size 6 thru 3/8 in.) and a butted seam barrel covered by a molded vinyl funnel entry sleeve, color coded and sized for a specified (AWG) wire range (22-18, 16-14 and 12-10).

# 3M™ Highland™ Terminals RV10-6 thru RV18-516

## Ring Tongue, Vinyl Insulated, Butted Seam

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**Shelf Life & Storage**

This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (50°F/10°C to 80°F/27°C and <75% relative humidity).

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**Availability**

Please contact your local distributor; available from [3M.com/electrical](http://3M.com/electrical) [Where to Buy] or call 1-800-245-3573.

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