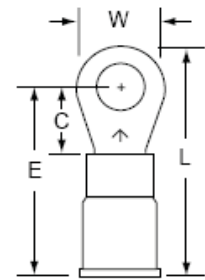


3M™ Highland™ Terminals

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

Specifications

| | |
|-------------------------|---|
| Wire Size: | See Table Above |
| Barrel Seam: | Butted |
| Maximum Voltage Rating: | 600 V Building Wire or 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 |

Installation Information

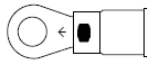
WARNING

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)

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

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).

Availability

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

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability:

This product will be free from defects in material and manufacture from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

3M, Highland and Scotchlok are trademarks of 3M Company.



Electrical Markets Division
6801 River Place Blvd.
Austin, TX 78726-9000
800 245 3573
FAX 800 245 0329
www.3M.com/electrical

Please recycle.
© 3M 2008 All rights reserved.
78-8126-0624-8_B