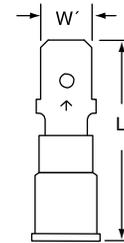


# 3M™ Highland™ Terminals

MTV14-187, MTV18-187

Male Disconnect, Vinyl Insulated, Butted Seam



Data Sheet

April 2014

| Product Number | Wire Range (AWG0) | Mates with Female Tab Width (W') x Thickness | L    | Barrel Length | Barrel I.D. | Maximum Insulation Diameter |
|----------------|-------------------|--|------|---------------|-------------|-----------------------------|
| MTV14-187      | 16-14             | 0.187 x 0.020                                | 0.85 | 0.24          | 0.080       | 0.145                       |
| MTV18-187      | 22-18             | 0.187 x 0.020                                | 0.85 | 0.24          | 0.080       | 0.145                       |

## Specifications

|                         |   |
|-------------------------|---|
| Wire Size:              | See Table Above   |
| Barrel Seam:            | Brazed  |
| Max. 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:      | EPT 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.



UNDERWRITERS  
LABORATORIES  
STANDARD  
NO. UL 310  
3M FILE NO. E70512



CANADIAN STANDARDS  
ASSOCIATION  
STANDARD NO. C22.2  
NO. 153  
3M FILE NO. LR22190

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

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



Barrel Crimp (Electrical)

Suitable for factory application on steel or brass tabs UL or CSA.  
Suitable for field application on brass tabs, strain relief required, UL only.

# 3M™ Highland™ Terminals MTV14-187, MTV18-187

## Male Disconnect, Vinyl Insulated, Butted Seam

---

### Engineering Specification

Crimp-type male quick-slide connectors shall, electrically and mechanically connect permanently to the prestripped end of a stranded copper wire: and have a flat rectangular tongue portion for mating to a Female Disconnect in a separable, reusable manner, forming a quick connect wiring connection.

The connector line shall offer tongue variations (size 0.250 x 0.032 or 0.187 x 0.020 per ANSI/NEMA DC-2) and barrel variations in wire size 22-18 AWG, 16-14 AWG, 12-10 AWG and construction of non-insulated, vinyl insulated nylon fully insulated etc...

The quick-slide connectors shall have regulatory agency coverage (UL Listing, CSA Certification). The tongue shall be marked with the wire range and the manufacturer's symbol. (↑)

The vinyl insulated 0.187" male disconnect shall be tin plated 0.020" thick copper, with a 0.187" blade conforming to ANSI/NEMA DC-2 dimension and a 0.24" long barrel with a molded vinyl sleeve, color coded, and sized for a specified (AWG) wire range (22-18, 16-14).

Insulated connectors shall be UL Listed and CSA Certified for 600 volts maximum, building wire: 1000 volts maximum, signs and fixtures (luminaires). The connector shall be temperature rated 221°F (105°C) maximum.

Quick slide connectors shall be suitable for field or factory wiring, with a UL Recognized strain relief required.

---

### Availability

Please contact your local distributor; available from [3M.com/electrical](http://3M.com/electrical) [Where to Buy] or call 1.800.245.3573.

---

3M and Highland are trademarks of 3M Company.

---

### 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 at 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.**

---



### Electrical Markets Division

6801 River Place Blvd.  
Austin, TX 78726-9000  
800.245.3573  
FAX: 800.245.0329  
[www.3M.com/electrical](http://www.3M.com/electrical)

Please recycle  
© 3M 2014 All rights reserved  
78-8126-0648-7 Rev B