

### 3M Worldwide : United States : Electronics Manufacturing

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  - Product Catalog for Electronic Specialty Markets
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Product Catalog for Electronic Specialty Markets > 3M™ Terminals, Kits & Tools > Forks > Scotchlok™ Locking Fork Terminals - Vinyl Insulated Brazed Seam >

## □ Printer-friendly format 3M<sup>TM</sup> Scotchlok<sup>TM</sup> Vinyl Insulated Brazed Seam Locking Fork Terminal MV18-10FLX, Stud Size 10

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This terminal has a wire range of 22-18 AWG and a stud size of 10. It comes in case quantities of 500 per case.

[click to enlarge]

GTIN(UPC/EAN): 0 00 54007 13890 7

3M Id: 80-6101-3449-8

### **Additional Information**

The spring-like tongue locks into place around the stud even when the mount screw is not tightened. Extra force is required to remove it from the stud.

#### Learn More . . .

**Packaging Data** 

<u>Locking Forks - Vinyl Insulated Brazed Seam 22-18 AWG - Product Selection Guide (PDF 26.1 K)</u>

<u>Scotchlok Terminals MV18-4FL thru MV10-14FL - Data</u> <u>Sheet (PDF 19.6 K)</u>

Terminal Stud Size Chart - Product Selection Guide (PDF 5.2 K)

### Please Note:

Adobe® Acrobat® Reader is required to view PDF documents.



## Other Tools

- What's New
- Sales Contacts
- U.S. Distributors

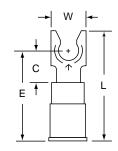
### Characteristics

Agency Approvals	UL and CSA
Barrel Style	Brazed
China RoHS - Below MCV	No
CSA File Number	LR22190
EU RoHS Compliant	No

Insulation Material	Vinyl
Stud Size	10 American Wire Gauge (AWG)
Terminal Style	Locking
Terminal Type	Fork
UL File Number	E23438
Wire Gauge Range	18 to 22 American Wire Gauge (AWG)

# Scotchlok<sup>TM</sup> Terminals

MV18-4FL thru MV10-14FL Locking Fork, Vinyl Insulated, Brazed Seam



## **Data Sheet**

Product Number	Wire Range (AWG)	Stud Size	Max Lock Width	w	С	L	E	Thickness	Barrel Length	Barrel I.D.	Maximum Insulation Diameter
MV18-4FL	22-18	4	0.27	0.25	0.25	0.88	0.70	0.030	0.25	0.070	0.145
MV18-6FL	22-18	6	0.27	0.25	0.25	0.88	0.70	0.030	0.25	0.070	0.145
MV18-8FL	22-18	8	0.34	0.30	0.25	0.88	0.70	0.030	0.25	0.070	0.145
MV18-10FL	22-18	10	0.35	0.32	0.25	0.88	0.70	0.030	0.25	0.070	0.145
MV14-4FL	16-14	4	0.27	0.25	0.25	0.88	0.70	0.030	0.25	0.090	0.170
MV14-6FL	16-14	6	0.27	0.25	0.25	0.88	0.70	0.030	0.25	0.090	0.170
MV14-8FL	16-14	8	0.34	0.30	0.25	0.88	0.70	0.030	0.25	0.090	0.170
MV14-10FL	16-14	10	0.35	0.32	0.25	0.88	0.70	0.030	0.25	0.090	0.170
MV14-14FL	16-14	1/4	0.48	0.43	0.40	1.10	0.85	0.030	0.25	0.090	0.170
MV10-6FL	12-10	6	0.30	0.28	0.28	1.03	0.83	0.040	0.25	0.135	0.250
MV10-8FL	12-10	8	0.35	0.32	0.28	1.03	0.83	0.040	0.25	0.135	0.250
MV10-10FL	12-10	10	0.36	0.32	0.28	1.03	0.83	0.040	0.25	0.135	0.250
MV10-14FL	12-10	1/4	0.48	0.43	0.44	1.24	0.99	0.040	0.25	0.135	0.250



**LISTED** 314R UNDERWRITERS LABORATORIES STANDARD NO. UL 486A 3M FILE NO. E23438



CANADIAN STANDARDS ASSOCIATION STANDARD NO. C22.2 NO. 0. 65 3M FILE NO. LR22190

## **Specifications**

Wire Size: Barrel Seam: Max. Voltage Rating:

Max. Temperature Rating: Max. Current: Insulator Material:

Terminal Material: Plating:

See Table Above Brazed

600 V Building Wire 1000 V Signs, Fixtures and Luminaires 221°F (105°C)

Same as Wire Vinyl ETP Copper Tin

## **Installation Information**

## riangle 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 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 a 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 tongue 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, nylon 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 (\(\bar{\bar}\)).

The vinyl-insulated, brazed seam locking fork terminal shall be tin-plated, annealed copper, with the tongue having a specified stud slot (size 4 thru 1/4 in.) and a brazed seam barrel covered by a molded vinyl funnel entry sleeve, color coded and sized, for a specified (AWG) wire range (22-18, 16-14, 12-10).

Insulated terminals shall be UL Listed and CSA Certified for 600 Volts maximum building wire: 1000 Volts maximum in signs, fixtures and luminaries and have a maximum operating temperature of 221°F (105°C).

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### **IMPORTANT NOTICE**

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.

Warranty; Limited Remedy; Limited Liability. This product will be free from defects in material and manufacture as of the date of purchase.

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**Electrical Products Division**