

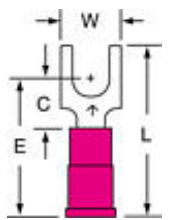
## Solutions for Electronic Specialty Markets (ESM)

### Product Catalog for Electronic Specialty Markets

- 3M™ Electronic Specialty Markets - New Product Releases
- 3M™ Abrasives
- 3M™ Adhesives, Cleaners & Compounds
- 3M™ Breadboards & Test Clips
- 3M™ Cable & Assemblies
- 3M™ Copper Interconnects
- 3M™ Fiber Optics
- 3M™ Fire Protection
- 3M™ Heat Shrink
- 3M™ Identification Systems
- 3M™ Occupational Health & Safety Products
- 3M™ Protective Bumpers
- 3M™ Reclosable Fasteners
- 3M™ Splicing, Terminating & Ducting
- 3M™ Static Control
- 3M™ Tapes
- 3M™ Terminals, Kits & Tools
- 3M™ Vacuums & Accessories
- 3M™ Warehousing & Packaging Supplies
- 3M™ Wire Connectors

[Product Catalog for Electronic Specialty Markets](#) > [3M™ Terminals, Kits & Tools](#) > [Forks](#) > [Scotchlok™ Block Fork Terminals - Vinyl Insulated Brazed Seam](#) >

## [Printer-friendly format](#) 3M™ Scotchlok™ Vinyl Insulated Brazed Seam Block Fork Terminal MV18-10FBX, Stud Size 10



[click to enlarge](#)

GTIN(UPC/EAN) : 0 00 54007 22005 3  
3M Id : 80-6100-0160-6

This terminal has a wire range of 22-18 AWG and a stud size of 10. It has case quantities of 1000 per case.

### Additional Information

The standard fork allows rapid connection of wire. They are usually used on free-standing studs, because of their wider tongues.

### Learn More . . .

[Packaging Data](#)

[Block Forks - Vinyl Insulated Brazed Seam 22-18 AWG - Product Selection Guide \(PDF 29.6 K\)](#)

[Scotchlok Terminals MV18-4FB/S thru MV10-10FB - Data Sheet \(PDF 15.7 K\)](#)

[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

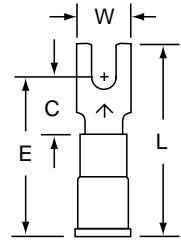
<b>Insulation Material</b>	Vinyl
<b>Stud Size</b>	10 American Wire Gauge (AWG)
<b>Terminal Style</b>	Block
<b>Terminal Type</b>	Fork
<b>UL File Number</b>	E23438
<b>Wire Gauge Range</b>	18 to 22 American Wire Gauge (AWG)

---



# Scotchlok™ Terminals

MV18-4FB/S thru MV10-10FB  
Block Fork, Vinyl Insulated, Brazed Seam



## Data Sheet

Product Number	Wire Range (AWG)	Stud Size	W	C	L	E	Thickness	Barrel Length	Barrel I.D.	Maximum Insulation Diameter
MV18-4FB/S	22-18	4	0.25	0.25	0.85	0.70	0.030	0.25	0.070	0.145
MV18-6FB/S	22-18	6	0.25	0.25	0.85	0.70	0.030	0.25	0.070	0.145
MV18-6FB	22-18	6	0.30	0.25	0.85	0.70	0.030	0.25	0.070	0.145
MV18-8FB	22-18	8	0.30	0.25	0.85	0.70	0.030	0.25	0.070	0.145
MV18-10FB	22-18	10	0.30	0.25	0.85	0.70	0.030	0.25	0.070	0.145
MV14-4FB/S	16-14	4	0.25	0.25	0.85	0.70	0.030	0.25	0.090	0.170
MV14-6FB/S	16-14	6	0.25	0.25	0.85	0.70	0.030	0.25	0.090	0.170
MV14-6FB	16-14	6	0.30	0.25	0.85	0.70	0.030	0.25	0.090	0.170
MV14-8FB	16-14	8	0.30	0.25	0.85	0.70	0.030	0.25	0.090	0.170
MV14-10FB	16-14	10	0.30	0.25	0.85	0.70	0.030	0.25	0.090	0.170
MV10-6FB	12-10	6	0.32	0.29	1.03	0.84	0.040	0.25	0.135	0.250
MV10-8FB	12-10	8	0.32	0.29	1.03	0.84	0.040	0.25	0.135	0.250
MV10-10FB	12-10	10	0.32	0.29	1.03	0.84	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

## Installation Information

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.

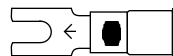
## Specifications


Wire Size:  
Barrel Seam:  
Max. Voltage Rating:

See Table Above  
Braze  
600 V Building Wire  
1000 V Signs, Fixtures  
and Luminaires

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

221°F (105°C)  
Same as Wire  
Vinyl  
ETP Copper  
Tin



 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.

# 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 (↑).

The vinyl-insulated, brazed seam block fork terminal shall be tin-plated, annealed copper, with the tongue having a specified stud slot (size 4 thru 10) 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).

3M and Scotchlok are trademarks of 3M

## 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. **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 loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.**

# 3M

## Electrical Products Division

6801 River Place Blvd.  
Austin, TX 78726-9000  
<http://www.3M.com/elpd>

Litho in USA.  
© 3M 2002 78-8126-0502-6-A