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# 3M™ Terminals

High performing and easy-to-install  
in a variety of types, sizes and materials

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# 3M™ Terminals

High performing and easy-to-install in a variety of types, sizes and materials

**Product Selector Tool Available: [3M.com/Terminals](https://3M.com/Terminals)**



Ring Tongues



Multi Stud Ring Tongues



Standard Forks



Block Forks



Flanged Block Forks



Locking Forks



Female Disconnects



Male Disconnects



Multi Stack Disconnects



Butt Connectors



Parallel Connectors



Pin Terminals



Adapters



Flags



High Temperature



Closed End Connectors

## Insulator Color Coding:

Yellow (26-24 AWG)	Red (22-18 AWG)	Blue (16-14 AWG)	Yellow (12-10 AWG)	Red (6 AWG)	Blue (6 AWG)	Yellow (4 AWG)
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# Most commonly purchased 3M™ Scotchlok™ Terminal types

## Ring



Nylon Insulated with Insulated Grip

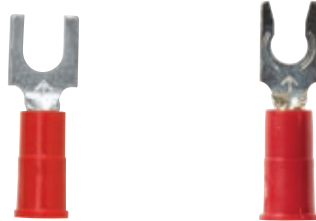
Vinyl Insulated

### Description

- The standard style of tongue. The safest and most reliable 3M terminal. It cannot be removed unless mounting screw is removed.

**Additional types include:** *Heat Shrink, Nylon Insulated, Non-Insulated*

## Fork



Vinyl Insulated Block Fork

Vinyl Insulated Locking Fork

### Description

- **Standard Fork:** Allows rapid connection of wire. Usually used on free-standing studs, because of wider tongues
- **Block Fork:** Same strength as fork, but designed to use in terminal block because sides lie flat against barrier portion of terminal block
- **Locking Fork:** Spring-like tongue locks in place around the stud even when mount screw is not tightened. Extra force is required to remove from stud
- **Flanged Fork:** Benefit of both the block and locking forks. Stays secure should screw loosen

**Additional types include:** *Standard, Block, Locking and Flanged Forks are available in: Nylon Insulated with Insulation Grip, Vinyl Insulated, Non-Insulated. Locking fork also available in heat shrink.*

## Butt Connectors



Heat Shrink Seamless

Vinyl Insulated Seamless

### Description

- Connects two wires. Provides fast, easy wire insertion from both ends and a built-in wire stop for correct positioning

**Additional types include:** *Nylon Insulated, Nylon Insulated with Insulation Grip, Nylon Insulated with Insulation Grip Grease Filled, Non-Insulated, Non-Insulated Seamless Compression.*

## Female Disconnects



Nylon Fully Insulated

Vinyl Insulated

### Description

- Attaches to male disconnect
- Use of dents and rolled edges on female disconnect provides excellent holding force while allowing easy, quick disconnect

**Additional types include:** *Heat Shrink Nylon Fully Insulated, Nylon Fully Insulated, Nylon Fully Insulated with Insulation Grip Bullet Style, Nylon Insulated with Insulation Grip, Vinyl Insulated with Insulation Grip, Non-insulated Grease Filled, Non-Insulated, Non-Insulated Seamless Compression.*

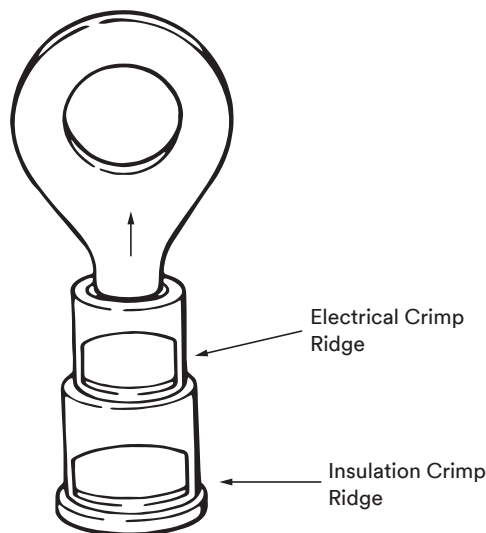


# 3M™ Terminal design assures consistently effective, reliable performance and easy installation

## Key design features

### Individually molded with crimp ridges

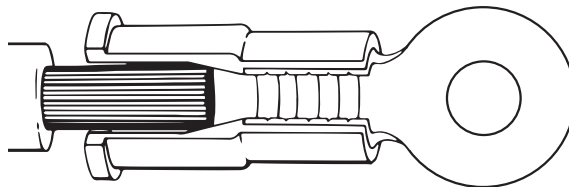
Enables correct tool placement



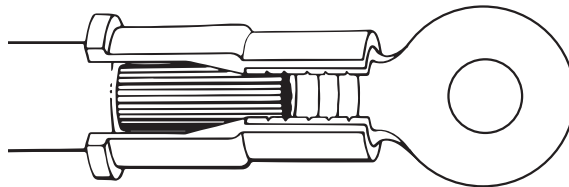
### Funnel Barrel

Helps reduce wire hang ups, providing an excellent electrical and mechanical connection

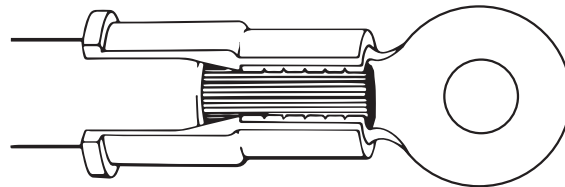
Funnel design guides wire into position.



No wire strand hang-up as the wire is inserted, giving a fast, positive installation.



Wire is in place, ready for crimping.



For maximum crimping performance, barrel of connector must be properly indexed in the crimp tool station.

# Frequently Asked Questions



## **What does the insulation grip do?**

The insulation grip provides a “second” crimp on the wire insulation providing additional wire strain relief. It’s excellent for high vibration environment.



## **What’s the difference between insulated and fully insulated disconnects?**

Insulated disconnects have barrel insulation only and fully insulated disconnects are insulated from the barrel to the receptacle/tab.



## **What temperatures do 3M™ terminals withstand?**

Non-insulated 3M terminals withstand temperatures up to 347° F (175° C). Insulated 3M terminals withstand temperatures up to 221° F (105° C).



## **What is the temperature rating of 3M high temperature terminals? Where are they used?**

3M High temperature terminals have a temperature rating for continuous use at 900° F (482° C). They are ideal for use in ovens, motors, light fixtures, and other applications where other connectors could corrode or melt.









## **Why use heat shrink terminals, connectors and disconnects?**







3M Heat Shrink pre-insulated terminals, connectors and disconnects protect against the most challenging of environments, making the best moisture protection available. They offer several advantages over conventional unsealed products including corrosion resistance, improved mechanical performance (improved pullout strength and strain relief), and durable heat shrink tubing (resists abrasions, scoring, cut-through and effects of long-term aging).

# 3M™ Terminals Suggested Stocking List

## 3M™ Scotchlok™ Terminals

Wire Range	Stud Size	 Ring Vinyl Insulated	 Block Fork Vinyl Insulated	 Butt Connector Vinyl Insulated	 Female Disconnect Nylon Fully Insulated	 Female Disconnect Vinyl Insulated	 Scotchlok Heat Shrink Terminal Kit (SHSTK-1)
22-18	6		MV18-6FBX 00051128587430	MV18BCX 00051128587393	MNU18-250DFIX 00051128587768	MVU18-250DFX 00051128587904	SHSTK-1 00051128613603
	8	MV18-8R/LX 00051128587317	MV18-8FBX 00051128587447				
	10	MV18-10R/LX 00051128587324	MV18-10FBX 00051128587454				
16-14	6		MV14-6FBX 00051128587461	MV14BCX 00051128587409	MNU14-250DFIX 00051128587775	MVU14-250DFX 00051128586716	
	8	MV14-8R/LX 00051128587553	MV14-8FBX 00051128587478				
	10	MV14-10R/LX 00051128587492	MV14-10FBX 00051128587485				
12-10	8	MV10-8RX 00051128587577	MV10-8FBX 00051128587652	MV10BCX 00051128587676	MNU10-250DFIX 00051128588123	MV10-250DFX 00051128589366	
	10	MV10-10RX 00051128587584	MV10-10FBX 00051128587669				
	14	MV10-14R/SX 00051128587591					

## 3M™ Highland™ Terminals

Wire Range	Stud Size	 Ring Vinyl Insulated	 Block Fork Vinyl Insulated	 Butt Connector Vinyl Insulated	 Female Disconnect Vinyl Insulated	 Male Disconnect Vinyl Insulated	 Highland Terminal Kit (HTK-1)
22-18	6	RV18-6Q 00051128600450	BFV18-6Q 00051128599945	BSV18Q 00051128599983	FDV18-250Q 00051128600085	MTV18-250Q 00051128600313	HTK-1 00051128613597
	8	RV18-8Q 00051128600467	BFV18-8Q 00051128599952				
	10	RV18-10Q 00051128600436	BFV18-10Q 00051128599935				
16-14	6	RV14-6Q 00051128600412	BFV14-6Q 00051128599914	BSV14Q 00051128599976	FDV14-250Q 00051128600061	MTV14-250Q 00051128600290	
	8	RV14-8Q 00051128600429	BFV14-8Q 00051128599921				
	10	RV14-10Q 00051128600382	BFV14-10Q 00051128599907				
12-10	6		BFV10-6Q 00051128599884	BSV10Q 00051128599969	FDV10-250Q 00051128600047	MTV10-250Q 00051128600276	
	8	RV10-8Q 00051128600375	BFV10-8Q 00051128599891				
	10	RV10-10Q 00051128600320	BFV10-10Q 00051128599877				
	14	RV10-14Q 00051128600337					

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