

Mini MAG-MATE Terminals

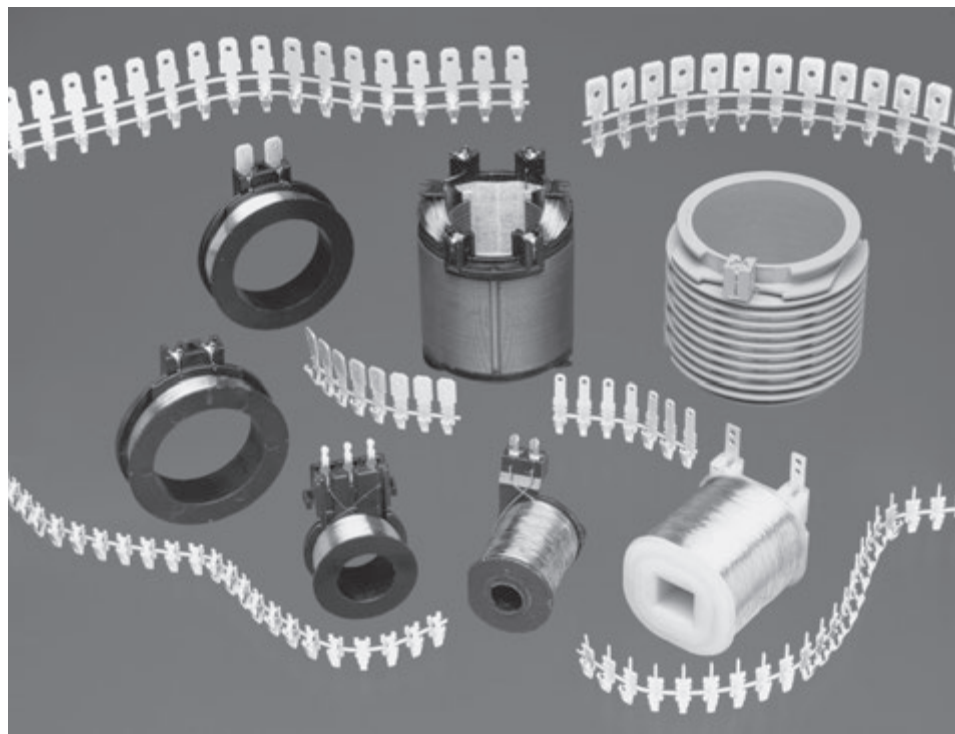
Product Facts

- Terminates all fine gauge magnet wire film insulations
- Eliminates need to pre-strip conductors
- Eliminates need to post insulate terminations
- Terminates 52-30 AWG [0.02-0.25 mm] diameter copper magnet wire
- Poke-In leaf style accepts 22 -18 AWG [0.3-0.9 mm] overcoated stranded or solid lead wire
- Available in strip form for semi-automatic or fully automatic insertions
- High speed, fully automated integrated systems provide uniform terminations and reliability at the lowest possible applied cost
- Recognized under the Component Recognition Program of Underwriters Laboratories Inc, File No. E13288



Applications

- Ignition coils
- Small motors
- Synchronist timers
- Electric meter coils
- Solenoids
- Relays



TE offers Mini MAG-MATE poke-in, crimp wire barrel, post and quick disconnect tab insulation displacement (IDC) terminals for fine gauge magnet wire terminations.

Mini MAG-MATE terminals are designed to terminate 52-30 AWG [0.02-0.25 mm] diameter copper magnet wire.

Poke-in leaf terminals accept 22-18 AWG [0.3-0.9 mm²] overcoated stranded or solid lead wire.

The terminal design uses the AMPLIVAR serrated burr technology to penetrate the film insulation of copper magnet wire.

Mini MAG-MATE cavity pockets, designed to TE specifications, include a wire

receiving slot and wire tie-off post that is either integrated into coil bodies or specially designed cavity housings.

The magnet wire is wrapped around the tie-off post and placed across the cavity slot. After the coil is wound, the finish end of the magnet wire is dressed through the second cavity slot and tied to its tie-off post.

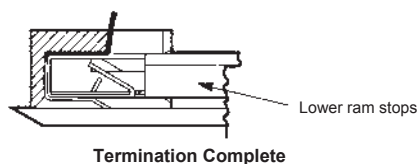
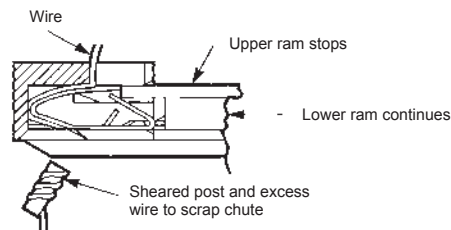
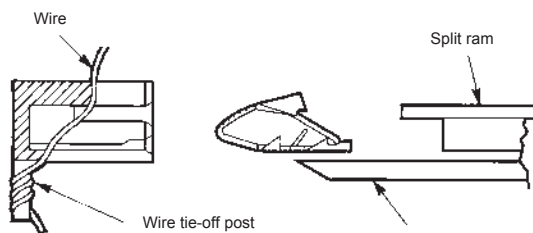
The Mini MAG-MATE Inserter shears the terminal from the carrier strip and inserts the terminal into the cavity by a dual ram insertion mechanism.

As the unexpanded terminal approaches the bottom of the cavity, the upper ram stops. The lower ram continues to push to a prescribed depth to expand the terminal and complete

the termination process.

The fully seated terminal fits squarely into the cavity, while the serrated leg of the terminal cams against the pre-positioned magnet wire to penetrate the film insulation and provide a stable electrical termination.

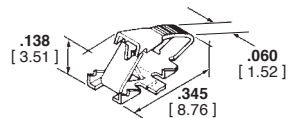
Mini MAG-MATE Terminals (Continued)



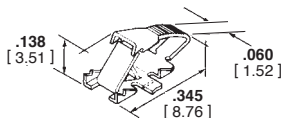
Poke-In Terminal

Material

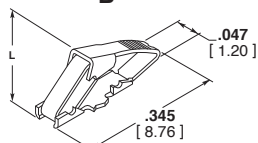
.010 [0.25] tin plated brass



A



B



C

Type	Copper Magnet Wire Range		Lead Wire Range ¹		Mating Tab	Stock Thickness		Strip Part Number
	AWG	mm	AWG	mm ²		Poke-In Beam	Mag Wire	
A Lead Wire Poke-In	52-42	0.02-0.06	22-18	0.3-0.9	—	0.010 0.25	0.010 0.25	62781-1
	44-36	0.05-0.13	22-18	0.3-0.9	—	0.010 0.25	0.010 0.25	62780-1
	38-30	0.10-0.25	22-18	0.3-0.9	—	0.010 0.25	0.010 0.25	62606-1
B Tab Poke-In	52-42	0.02-0.06	—	—	.060 x .020 1.52 x 0.51	0.010 0.25	0.010 0.25	63613-1
	44-36	0.05-0.13	—	—	.060 x .020 1.52 x 0.51	0.010 0.25	0.010 0.25	63795-1 ²
	38-30	0.10-0.25	—	—	.060 x .020 1.52 x 0.51	0.010 0.25	0.010 0.25	63844-2 ²
C Skinny Mini	40-34.5	0.08-0.15	—	—	.040 x .020 1.00 x 0.51	0.010 0.25	0.010 0.25	1718165-1

¹ Solid or overcoated stranded lead wire only.

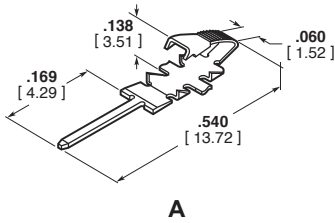
² Radius on beam leaf tip.

Mini MAG-MATE Terminals (Continued)

Posted Terminal

Material

Tin over premilled brass

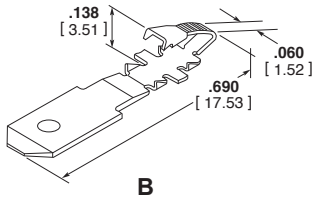


Type	Copper Magnet Wire Range		Post Size	Stock Thickness		Strip Part Number
	AWG	mm		Post	Mag Wire	
A PCB Post	38-30	0.10-0.25	.024 x .020 0.62 x 0.51	0.020 0.51	0.010 0.25	63675-4

FASTON Tab Terminals

Material

Tin over premilled brass

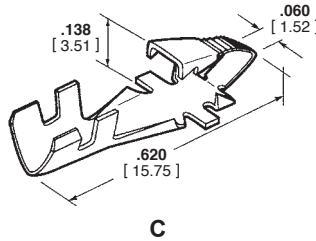


Type	Copper Magnet Wire Range			Tab Size	Stock Thickness		Strip Part Number
	G	W	A		Post	Mag Wire	
B .187 [4.75] FASTON Tab	44-36		0.05-0.13	.187 x .020 4.75 x 0.51	.020 0.51	.010 0.25	63778-1
	38-30		0.10-0.25	.187 x .020 4.75 x 0.51	.020 0.51	.010 0.25	1217529-1

Crimp Wire Barrel Terminal

Material

Tin plated brass



Type	Copper Magnet Wire Range		Lead Wire Range		Stock Thickness		Strip Part Number
	AWG	mm	AWG	mm ²	Crimp Barrel	Mag Wire	
C Crimp Wire Barrel	38-30	0.10-0.25	22-18	0.3-0.9	0.010 0.25	0.010 0.25	63199-1 ¹

1 Wire and insulation barrel reversed so lead wire exits over magnet wire termination area.