

## SIAMEZE Terminals

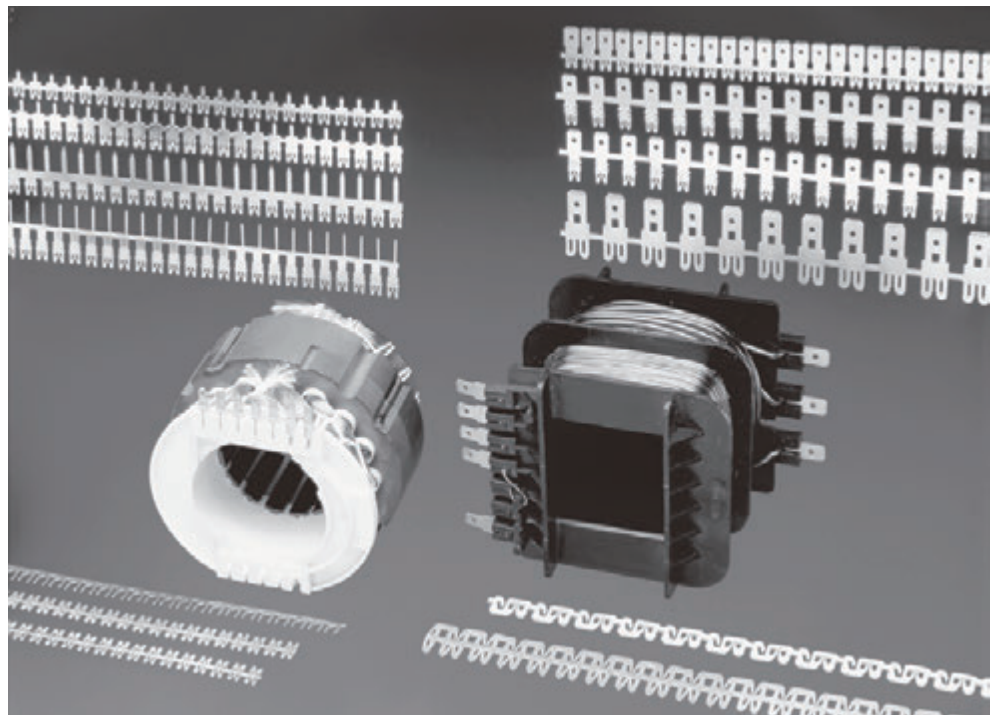
### Product Facts

- Terminates all copper magnet wire film insulations
- Eliminates need for pre-stripping conductors
- Moving Beam contact design connects a wide range of magnet wire sizes with a single terminal
- Standard range terminals connect 34-18 AWG [0.16-1.0 mm] magnet wire
- Fine range terminals connect 36-27 AWG [0.13-0.38 mm] magnet wire
- Medium range terminals connect 23-12 AWG [0.56-2.03 mm] magnet wire
- Excess magnet wire is automatically trimmed during the termination process
- Available in strip form for semi-automatic or fully automatic insertions
- Loose piece terminals available for manual tool insertions
- High-speed automatic coil winding machine terminations provide uniform reliability at the lowest possible applied cost
- Clean metal-to-metal interface produces stable, gas-tight electrical terminations free of oxides and other contaminants
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E13288



### Applications

- Motor windings and connections
- Coil connections
- Transformer windings and connections
- Ballasts
- Power supplies
- Solenoids
- Actuators



TE offers a full selection of SIAMEZE insulation displacement (IDC) terminals for interconnecting copper magnet wires, lead wires, and other components.

The SIAMEZE insulation displacement (IDC) terminal technology eliminates the need to strip the film insulation from copper magnet wires and lead wires.

Terminals are available in wire-to-wire, Lead Lok, quick disconnect tabs, posts, pin and receptacle terminals.



Available with either Moving Beam contacts whereby a single terminal connects to a very wide range of magnet wire sizes, or a Compliant Beam for contacting two magnet wires of the same diameter in one terminal for splicing or bi-filar applications.

Tab terminals are available with single barbs or multiple retention barbs for higher retention.

According to TE specifications SIAMEZE cavities are either integrated into coil bodies or specially designed cavity housings.

The magnet wires are positioned in the "U" shaped slots.

The SIAMEZE terminal inserter cuts the terminals from the strip and places the terminals over the magnet wire into the plastic cavities.

During this operation the small stripping devices penetrate the film insulation from the magnet wire.

Residual spring energy in the terminal causes the side walls of the IDC slot to function as opposing cantilever beams.

This constant pressure results in an intimate metal-to-metal interface, providing a reliable, long-term connection.

The wiping action between the wire and terminals remove all oxides or other contaminants present on both the conductor and the terminal slot side walls, producing a clean, stable, gas-tight electrical termination.

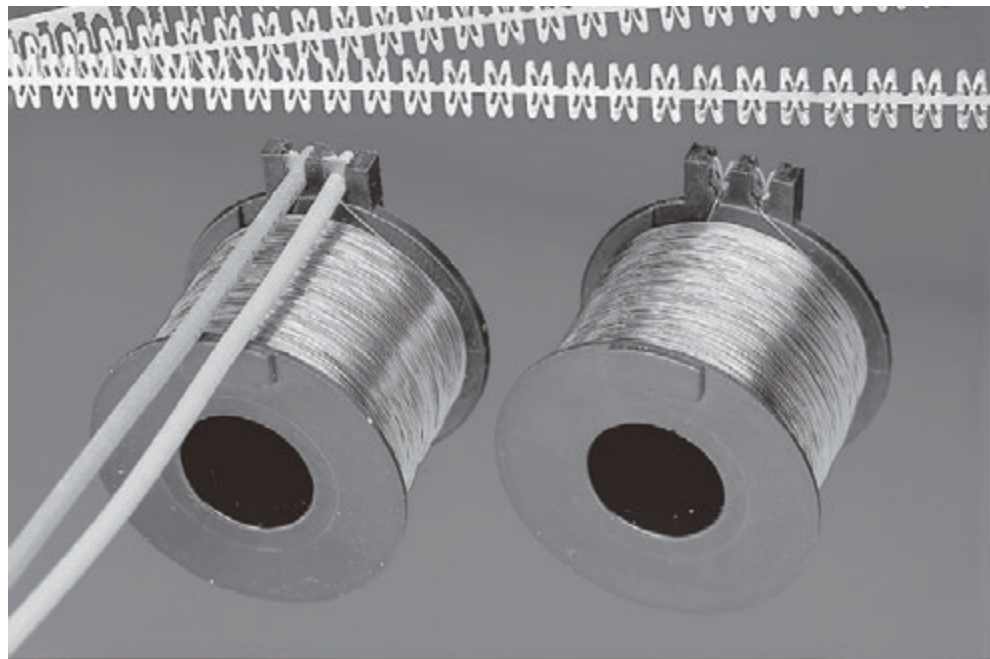
The SIAMEZE terminal inserter may be used as a semi-automatic bench machine or integrated in production lines for fully-automatic applications.

**SIAMEZE Terminals** (Continued)

**Lead Lok Terminals**

**Product Facts**

- Provides perpendicular and parallel lead wire strain relief retention forces in excess of 20 lbs (90 N).
- Inserter automatically positions and secures lead wire during insertion
- Manual, semi-automated, fully automated systems allow for lead wire termination
- Accepts #18 - #22 [0.3mm 2-0.8 mm<sup>2</sup>] AWG solid or stranded lead wire with .115 [2.92 ] max.insulation diameter
- No lead wire stripping required



SIAMEZE Terminals

TE features the Lead Lok strain relief terminal system that provides optimum lead wire retention when used in conjunction with SIAMEZE insulation displacement terminals.

After the one-step insertion of SIAMEZE wire-to-wire terminals into TE specified plastic cavities, the application is ready for the secondary lead wire attachment.

The lead wire is manually positioned over the magnet wire terminated SIAMEZE wire-to-wire terminal.

The Lead Lok Inserter

cuts the Lead Lok terminals from the strip and places the terminal over the lead wire in the plastic cavities.

During this operation, the lead wire is automatically seated, the insulation pierced and the exposed conductor is terminated in the IDC slot of the SIAMEZE wire-to-wire terminal.

Residual spring energy in the terminal causes the side walls of the IDC slot to function as opposing cantilever beams.

This constant pressure results in an intimate

metal-to-metal interface, providing a reliable, long-term connection.

Perpendicular and parallel lead wire strain relief retention forces in excess of 20 lbs are achieved.

The Lead Lok Inserter may be a secondary station in the SIAMEZE Wire-to-Wire semi-automatic bench machine.

Information regarding terminal insertion equipment may be found in Magnet Wire Termination Overview #138516.

**TECHNICAL DOCUMENTS**

Cavity Specifications - Provide dimensional design guidelines & criteria for a cavity to be used with a SIAMEZE IDC terminal. The appropriate Cavity Specification number is shown on the following pages adjacent to the terminal number. As a general reference, overall dimensions are shown at the end of this section.

■ **Product Specifications** ( These describe the performance characteristics and verification tests )

- 108-2085 Standard Range SIAMEZE Insulation Displacement
- 108-2293 High Temperature Standard Range SIAMEZE Insulation Displacement
- 108-2244 Fine Range SIAMEZE Insulation Displacement
- 108-2239 Medium Range SIAMEZE Insulation Displacement
- 108-2316 Heavy Range SIAMEZE Insulation Displacement

■ **Application Specifications** ( These describe the requirements for using the product in its intended application )

- 114-13166 Standard and Fine Range SIAMEZE Insulation Displacement
- 114-13210 Medium and Heavy Range SIAMEZE Insulation Displacement

**SIAMEZE Terminals** (Continued)

**SIAMEZE Interconnection System**

**How the System Operates**

① **Magnet Wire**

The magnet wire is positioned in “U” slot manually or automatically by coil winding equipment.

② **Terminal Insertion Finger**

The terminal insertion finger is part of the SIAMEZE Inserter. It pushes the terminal that was sheared from the carrier strip through the “tube” into the cavity.

③ **Contact**

Various wire attachments in standard, fine, medium and heavy duty terminals are available (See tables).

④ **IDC Slot**

The IDC slot in the terminal will terminate a wide range of magnet wire sizes.

⑤ **Stripping Burrs**

During the insertion process, these burrs strip the film insulation from the magnet wire.

⑥ **Retention Barbs**

Terminal retention is provided in the cavity by single or multiple locking barbs.

**Test Results**

SIAMEZE products have been submitted to the following tests without significant millivolt increase:

⑦ **Plastic Cavity**

Design must comply with TE connectivity specifications (for cavity drawing numbers see tables). **Consulting TE is required for design in.**

⑧ **Cavity Slot for Wire**

The width has to be in accordance with the wire size (see cavity drawings).

⑨ **Wire Cutoff Block**

The wire cutoff block supports the magnet wire during the trimming process. The magnet wire is cut plain to the cavity front side.

⑩ **Trim Blade**

The trim blade cuts the excess magnet wire and the wire cutoff block at the front of the cavity.

⑪ **Terminal Insertion Complete**

The magnet wire termination is complete when the terminal is fully seated in the cavity.

**Current Cycling—**

250 cycles with each cycle consisting of 15 minutes “ON” followed by 15 minutes “OFF”

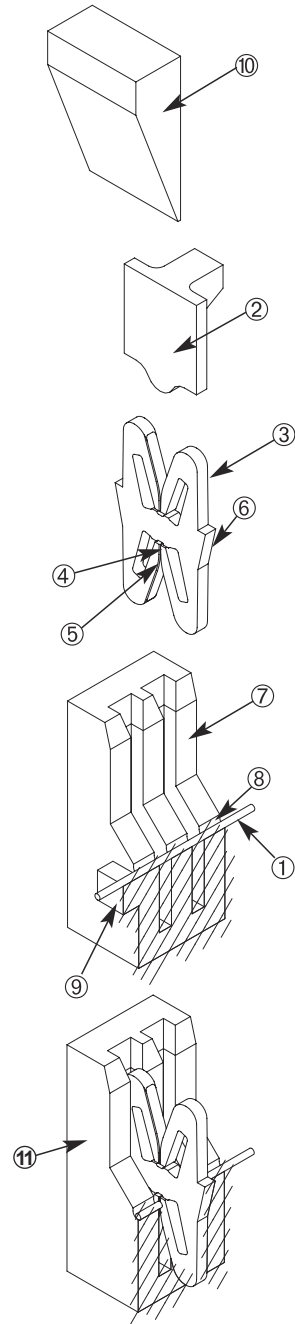
**Thermal Shock—**

25 Cycles -40°C to +125°C,  
25 Cycles -40°C to +175°C  
for High Temperature terminals

**Humidity—**

**Temperature Cycling**

10 cycles between 25°C and 65°C at 80 to 100% RH

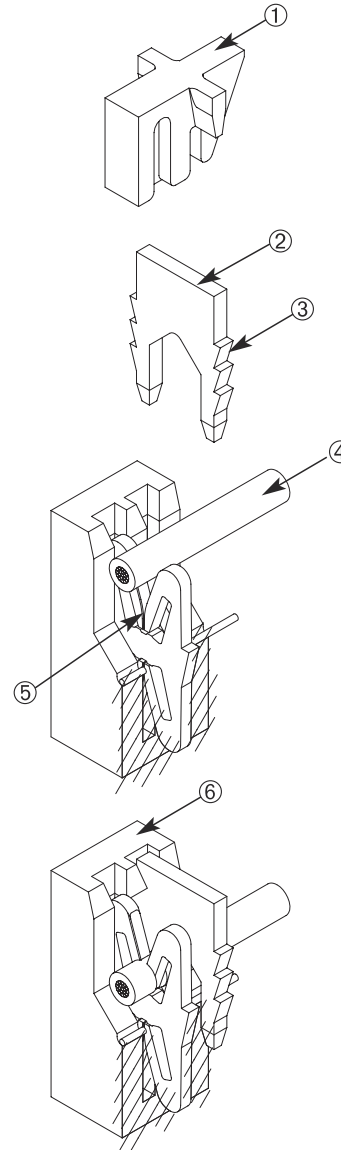


**SIAMEZE Terminals** (Continued)

**Lead Lok Interconnection System**

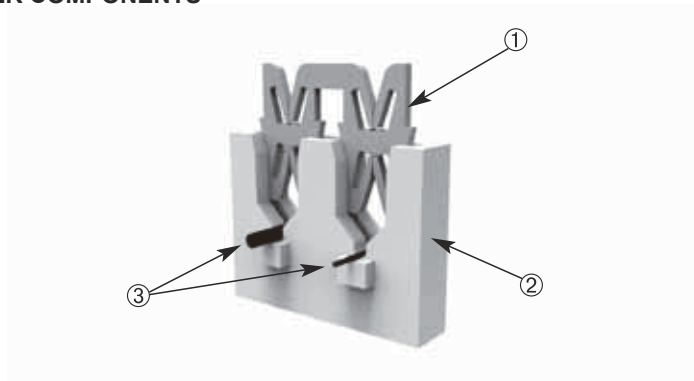
**How the System Operates**

- ① **Lead Lok Insertion Finger**  
The Lead Lok insertion finger pushes the Lead Lok that was sheared from the carrier strip and positions the Lead Lok and lead wire into the IDC slot.
- ② **Lead Lok Terminal**  
The Lead Lok terminal provides maximum lead wire retention in the cavity.
- ③ **Retention Barbs**  
The Lead Lok multiple barbs provide retention in the cavity.
- ④ **Lead Wire**  
Stranded, solid and bonded lead wire with 105°C PVC insulation can be used. Contact TE Engineering for other lead wires and insulation under consideration.
- ⑤ **IDC Slot**  
The IDC slot will pierce the lead wire during insertion.
- ⑥ **Lead Wire Insertion Complete**  
The lead wire termination is complete when the Lead Lok is fully seated in the cavity.



**HOW TO CONNECT MULTIPLE MAGNET WIRES OR OTHER COMPONENTS**

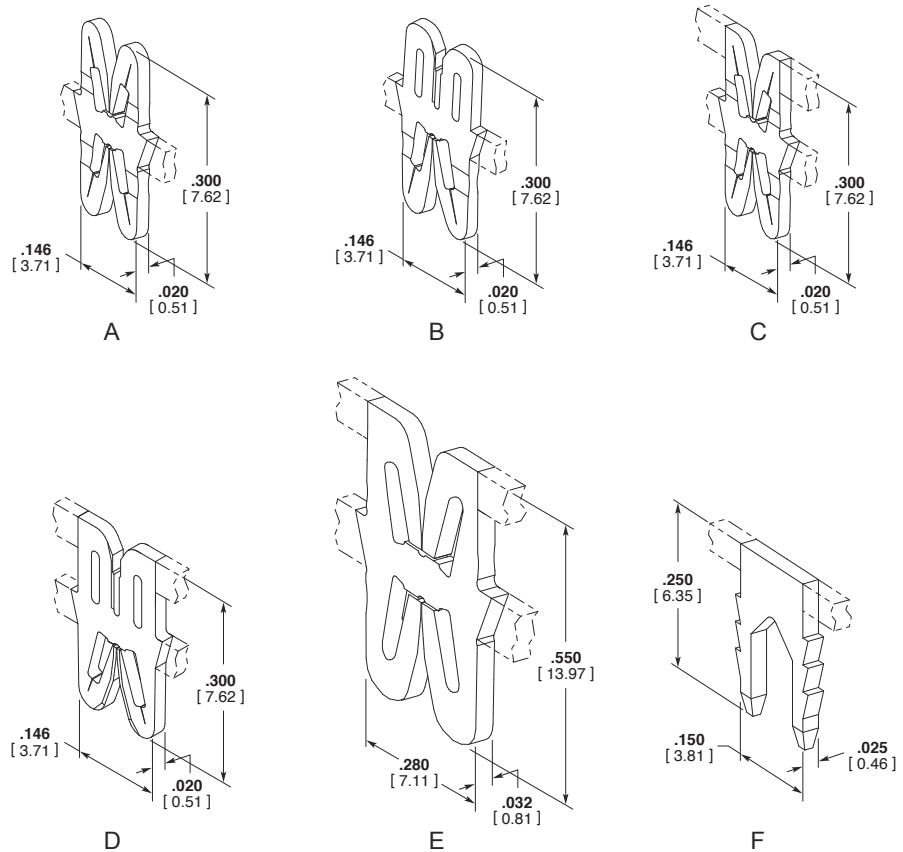
- ① **Bussed High Carrier Terminals**  
Bridging of two SIAMEZE terminals that is accomplished by leaving the carrier strip between two adjacent terminals intact.
- ② **Bussed High Carry SIAMEZE Plastic Cavity**  
Bussed cavity pocket designs are available for double or triple bussed terminals.
- ③ **Magnet Wire**  
Magnet wire may be equal or differ in size for bi-filar applications.



**SIAMEZE Terminals (Continued)**

**Wire-to-Wire Terminals**

**Material**  
Brass



Type	Recommended Pocket <sup>7</sup>	Copper Magnet Wire Range		Lead Wire Range		Part Number	
		AWG	mm	AWG	mm <sup>2</sup>	Reeled	Loose
A Moving Beam	1601421	18-34	1.02-0.16	18-22 <sup>6</sup>	0.8-0.3	1601000-1 1601000-2 <sup>5</sup>	4-1601000-1 <sup>2</sup> 4-1601000-2 <sup>2.5</sup>
		27-36	0.36-0.13	18-22 <sup>6</sup>	0.8-0.3	1601117-1 2-1601117-1 <sup>1</sup>	4-1601117-1 <sup>2</sup>
B Wire Specific <sup>8</sup>	1601421	18-34	1.02-0.16	20	0.5	1601056-1 2-1601056-1 <sup>1</sup>	4-1601056-1 <sup>2</sup>
		18-34	1.02-0.16	18	0.8	1601074-1 2-1601074-1 <sup>1</sup>	4-1601074-1 <sup>2</sup>
C High Carrier	1601433 1601440	18-34	1.02-0.16	18-22 <sup>6</sup>	0.8-0.3	1601046-1 2-1601046-1 <sup>1</sup>	4-1601046-1 <sup>2</sup> 6-1601046-1 <sup>3</sup> 8-1601046-1 <sup>4</sup>
		27-36	0.36-0.13	20	0.5	1601237-1 2-1601237-1 <sup>1</sup>	4-1601237-1 <sup>2</sup> 6-1601237-1 <sup>3</sup>
E Medium Range	1601436	12-23	2.06-0.56	16-20	1.3-0.5	1601136-1 2-1601136-1 <sup>1</sup>	4-1601136-1 <sup>2</sup> 6-1601136-1 <sup>3</sup>
		1601421 1601433 1601440		18-22	0.8-0.3	1601140-1 2-1601140-1 <sup>1</sup>	4-1601140-1

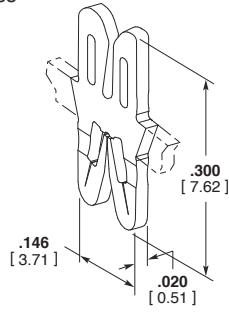
1 Reversed Reeled—Consult TE drawing for orientation.  
 2 Loose Single.  
 3 Loose Bussed (Bridged) Double.  
 4 Loose Bussed (Bridged) Triple.  
 5 Finish is Post Plated Tin over Copper (Consult TE drawing for specifics).  
 6 Lead wire may be stranded, solid or bonded with 105°C PVC insulation. Contact TE Engineering when using other types of insulation.  
 7 Magnet wire 30 AWG [0.25 mm] and smaller also requires a wrap post per drawing 1601447.  
 8 Wire Specific terminals have a top contact designed to penetrate difficult Lead Wire Insulation (e.g Irradiated types).

**SIAMEZE Terminals (Continued)**

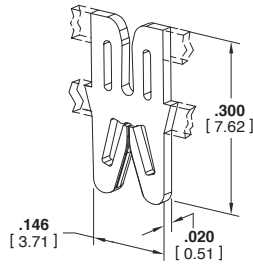
**Receptacle Terminals (Wire to Blade)**

**Material**

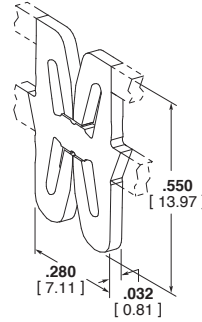
Brass



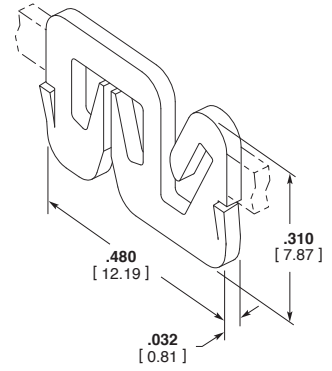
**A**



**B**



**C**



**D**

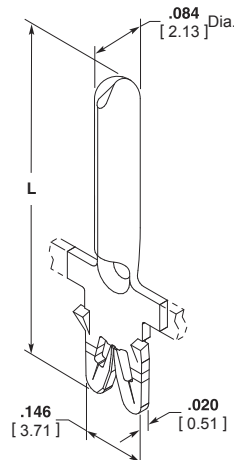
Type	Recommended Pocket <sup>5</sup>	Copper Magnet Wire Range		L <sup>8</sup> Dim.	Mating Tab Size	Part Number	
		AWG	mm			Reeled	Loose
A Wire2Blade In Line	1601425	18-34	1.02-0.16	.300 7.62	.020 0.51	1601075-1	4-1601075-1 <sup>2</sup>
						2-1601075-1 <sup>1</sup>	4-1601075-2 <sup>6</sup>
						1601075-2 <sup>6</sup>	4-1601075-2 <sup>1,6</sup>
B Wire2Blade High Carrier In Line	1601426	18-34	1.02-0.16	.300 7.62	.020 0.51	2-1601075-3 <sup>1,7</sup>	—
C Wire2Blade In Line Medium Range	1601436	15-23	1.47-0.56	.550 13.97	.032 0.81	1601196-1	4-1601196-1 <sup>2</sup>
D Wire2Blade Off Line Medium Range	1601437	15-23	1.47-0.56	.310 7.87	.032 0.81	2-1601196-1 <sup>1</sup>	6-1601196-1 <sup>3</sup> 8-1601196-1 <sup>4</sup>
						1601232-2 <sup>7</sup>	4-1601232-2 <sup>7</sup>
						2-1601232-2 <sup>1,7</sup>	
						1601137-2 <sup>6</sup>	4-1601137-2 <sup>6</sup>
						2-1601137-2 <sup>1,6</sup>	

1 Reverse Reeled –Consult TE drawing for orientation.  
 2 Loose Single.  
 3 Loose Bussed (Bridged) Double.  
 4 Loose Bussed (Bridged) Triple.  
 5 Magnet wire 30 AWG [0.25] and smaller also requires a wrap post per Specification 1601447.  
 6 Finish is Pre Plated Tin (Consult TE drawing for specifics).  
 7 Finish is Post Plated Tin over Nickel (Consult TE drawing for specifics).  
 8 Overall Height of terminal does not include inserted Blade (Tab).

**Pin Terminals**

**Material**

Brass



**E**

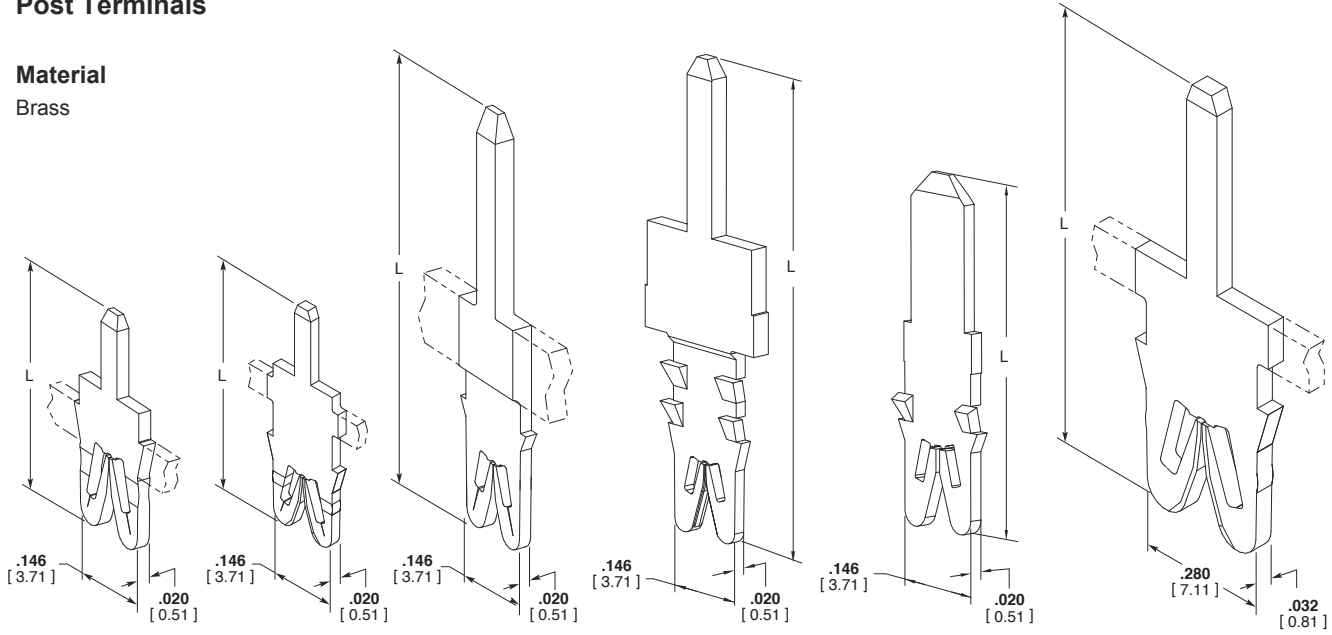
Type	Recommended Pocket <sup>2</sup>	Copper Magnet Wire Range		L Dim.	Pin Dia.	Part Number	
		AWG	mm			Reeled	Loose
E Round Pin	1601424	18-34	1.02-0.16	.718 18.24	.084 2.13	1601077-1	4-1601077-1 <sup>3</sup>
						2-1601077-1 <sup>1</sup>	

1 Reverse Reeled –Consult TE drawing for orientation.  
 2 Magnet wire 30 AWG [0.25 mm] and smaller also requires a wrap post per drawing 1601447.  
 3 Loose piece single.

**SIAMEZE Terminals (Continued)**

**Post Terminals**

**Material**  
Brass



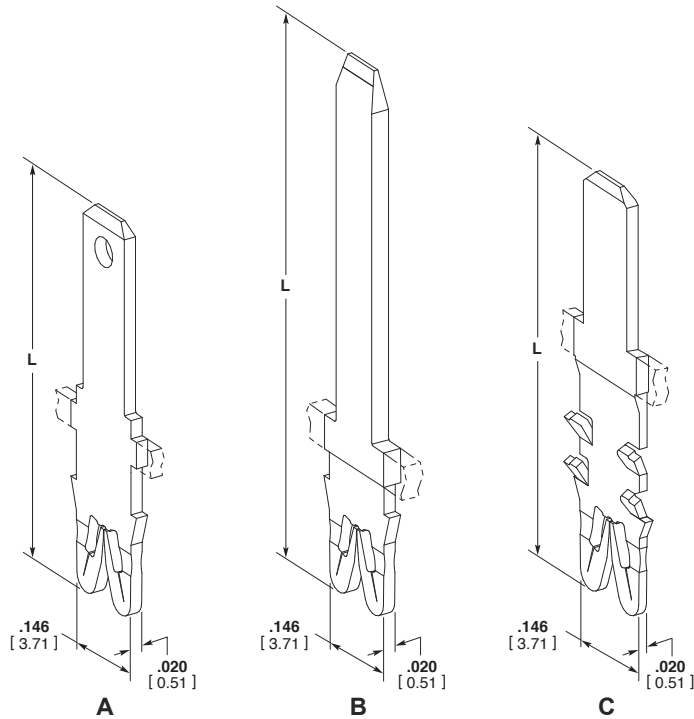
Type	Recommended Pocket <sup>7</sup>	Copper Magnet Wire Range		Tab Size	L Dim.	Part Number	
		AWG	mm			Reeled	Loose
A PC Tab	1601424	18-34	1.02-0.16	.040 x .020	.345	1601009-4 <sup>5</sup>	4-1601009-4 <sup>2.5</sup>
				1.02 x 0.51	8.76	2-1601009-4 <sup>1.5</sup>	
		29**	0.29	.040 x .020	.405	1601214-2 <sup>5</sup>	4-1601214-2 <sup>2.5</sup>
				1.02 x 0.51	10.29	2-1601214-2 <sup>1.5</sup>	
27-36	0.36-0.13	.040 x .020	.345	1601155-3 <sup>5</sup>	4-1601155-3 <sup>2.5</sup>		
		1.02 x 0.51	8.76	2-1601155-3 <sup>1.5</sup>			
B Extended PC Tab	1601425	18-34	1.02-0.16	.040 x .020	.456	1601095-2 <sup>4</sup>	4-1601095-2 <sup>2.4</sup>
				1.02 x 0.51	11.57	2-1601095-2 <sup>2.4</sup>	
		27-36	0.36-0.13	.040 x .020	.485	1601041-3 <sup>5</sup>	4-1601041-3 <sup>2.5</sup>
				1.02 x 0.51	12.32	2-1601041-3 <sup>1.5</sup>	
C Long Narrow Blade	1601431	18-34	1.02-0.16	.040 x .020	.485	1601128-3 <sup>5</sup>	4-1601128-3 <sup>2.5</sup>
				1.02 x 0.51	12.32	2-1601128-3 <sup>1.5</sup>	
				.047 x .032	.754	1601110-2 <sup>6</sup>	4-1601110-2 <sup>2.5</sup>
				1.20 x 0.81	19.16	2-1601110-2 <sup>1.6</sup>	
				.059 x .032	.669	1601099-2 <sup>5</sup>	4-1601099-2 <sup>2.5</sup>
				1.50 x 0.81	17.00	2-1601099-2 <sup>1.5</sup>	
				.059 x .032	.756	1601063-2 <sup>6</sup>	4-1601063-2 <sup>2.6</sup>
				1.50 x 0.81	19.21	2-1601063-2 <sup>1.6</sup>	
D Long Narrow Blade Mult-Barb	1601425	18-34	1.02-0.16	.059 x .032	.904	1601037-2 <sup>6</sup>	4-1601037-2 <sup>2.6</sup>
				1.50 x 0.81	22.96	2-1601037-2 <sup>1.6</sup>	
				.059 x .032	1.005	1601066-2 <sup>6</sup>	4-1601066-2 <sup>2.6</sup>
				1.50 x 0.81	25.53	2-1601066-2 <sup>1.6</sup>	
				.071 x .025	.974	1601104-2 <sup>6</sup>	4-1601104-2 <sup>2.6</sup>
				1.80 x 0.64	24.74	2-1601104-2 <sup>1.6</sup>	
E Medium Width Blade Mult-Barb	1601475	18-34	1.02-0.16	.118 x .020	.533	1601243-2 <sup>3</sup>	4-1601243-2 <sup>2.3</sup>
				3.00 x 0.51	13.54	2-1601243-2 <sup>1.3</sup>	
F Medium Width Blade	1601438	12-23	0.56-2.06	.118 x .025	.952	1601119-2 <sup>6</sup>	4-1601119-2 <sup>2.6</sup>
				3.00 x 0.64	24.18	2-1601119-2 <sup>1.6</sup>	
Medium wire range							

1 Reverse Reeled –Consult TE drawing for orientation.  
 3 Finish is Post Plated Tin (Consult TE drawing for specifics).  
 5 Finish is Post Plated Tin over Nickel (Consult TE drawing for specifics).  
 7 Magnet wire 30 AWG [0.25] and smaller also requires a wrap post per Specification 1601447

2 Loose Piece Single.  
 4 Finish is Post Plated Tin over Copper (Consult TE drawing for specifics).  
 6 Finish is Pre Plated Tin (Consult TE drawing for specifics)  
 \*\* Compliant contact can connect 2 wires of the same diameter.

**SIAMEZE Terminals (Continued)**
**110 Series (2.8 mm wide)  
FASTON Tab Terminals**
**Material**

Brass



Type	Recommended Pocket <sup>8</sup>	Copper Magnet Wire Range		Thickness	L Dim.	Part Number	
		AWG	mm			Reeled	Loose
A Single Barb	1601425	18-34	1.02-0.16	.020	.640	1601005-1	4-1601005-1 <sup>2</sup>
				0.51	16.26	2-1601005-1 <sup>1</sup>	
				.020	.640	1601204-2 <sup>6,7</sup>	4-1601204-2 <sup>2,6,7</sup>
				0.51	16.26	2-1601204-2 <sup>1,6,7</sup>	
				.020	.846	1601045-1	4-1601045-1 <sup>2</sup>
				0.51	21.49	2-1601045-1 <sup>1</sup>	
				.020	.846	1601059-1 <sup>7</sup>	4-1601059-1 <sup>2,7</sup>
				0.51	21.49	2-1601059-1 <sup>1,7</sup>	
				.020	.925	1601073-1	4-1601073-1 <sup>2</sup>
				0.51	23.50	2-1601073-1 <sup>1</sup>	
B Single Barb Low Transition	1601431	18-34	1.02-0.16	.032	.945	1601097-3 <sup>6,7</sup>	4-1601097-3 <sup>2,6,7</sup>
				0.81	24.00	2-1601097-3 <sup>1,6,7</sup>	
				.032	1.195	1601194-2 <sup>3,7</sup>	4-1601194-2 <sup>2,3,7</sup>
				0.81	30.35	2-1601194-2 <sup>1,3,7</sup>	
C Multi-Barb	1601425	18-34	1.02-0.16	.020	.655	1601039-1	4-1601039-1 <sup>2</sup>
				0.51	16.63	2-1601039-1 <sup>1</sup>	
				.020	.655	1601039-2 <sup>6</sup>	4-1601039-2 <sup>2,6</sup>
				0.51	16.63	2-1601039-2 <sup>1,6</sup>	
				.032	.630	1601064-1 <sup>7</sup>	4-1601064-1 <sup>2,7</sup>
				0.81	15.99	2-1601064-1 <sup>1,7</sup>	
				.032	1.240	1601112-2 <sup>6,7</sup>	4-1601112-2 <sup>2,6,7</sup>
				0.81	31.50	2-1601112-2 <sup>1,6,7</sup>	
	27-36	0.36-0.13	.032	1.240	1601133-2 <sup>6,7</sup>	4-1601133-2 <sup>2,6,7</sup>	
			0.81	31.50	2-1601133-2 <sup>1,6,7</sup>		

1 Reverse Reeled-Consult TE drawing for orientation.

2 Loose Piece Single.

3 Finish is Post Plated Tin over Nickel (Consult TE drawing for specifics).

4 Finish is Post Plated Tin (Consult TE drawing for specifics).

5 Finish is Pre-Plated Tin over Copper (Consult TE drawing for specifics).

6 Finish is Pre-Plated Tin (Consult TE drawing for specifics).

7 No hole in Tab.

8 Magnet wire 30 AWG [0.25] and smaller also requires a wrap post per Specification 1601447.

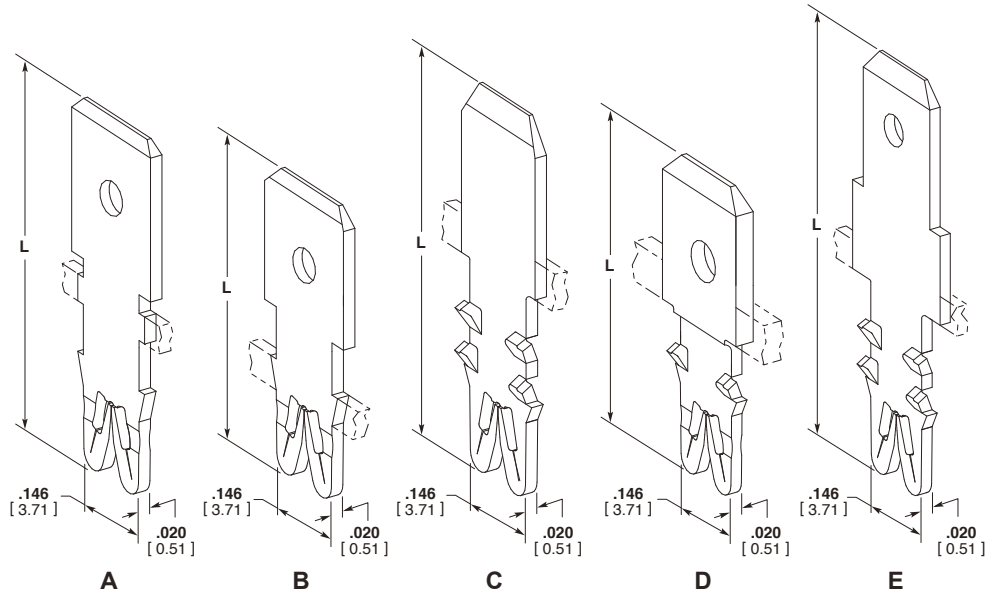


**SIAMEZE Terminals (Continued)**

**187 Series (4.75 mm wide)  
FASTON Tab Terminals**

**Material**

Brass  
(except High Temp listed below)



Type	Recommended Pocket <sup>3</sup>	Copper Magnet Wire Range		Thickness	L Dim.	Part Number	
		AWG	mm			Reeled	Loose
A Single Barb	1601425	18-34	1.02-0.16	.020	.605	1601006-2 <sup>5</sup>	4-1601006-2 <sup>2,5</sup>
				0.51	15.37	2-1601006-2 <sup>1,5</sup>	
B Single Barb Short Pocket	1601427	18-34	1.02-0.16	.020	.505	1601011-1	4-1601011-1 <sup>2</sup>
				0.51	12.83	2-1601011-1 <sup>1</sup>	
				.020	.590	1601018-2 <sup>5,6</sup>	4-1601018-2 <sup>2,5,6</sup>
				0.51	14.99	2-1601018-2 <sup>1,5,6</sup>	
				.020	.985	1601033-2 <sup>5,6</sup>	4-1601033-2 <sup>2,5,6</sup>
				0.51	25.02	2-1601033-2 <sup>1,5,6</sup>	
				.020	.618	1601021-2 <sup>5,6</sup>	4-1601021-2 <sup>2,5,6</sup>
				0.51	15.70	2-1601021-2 <sup>1,5,6</sup>	
				.020	.655	1601013-1	4-1601013-1 <sup>2</sup>
				0.51	16.64	2-1601013-1 <sup>1</sup>	
C Multi-Barb	1601425	18-34	1.02-0.16	.020	.791	3-1601072-2 <sup>5,6</sup>	4-1601072-2 <sup>2,5,6</sup>
				0.51	20.09		
				.020	0.832	1601068-2 <sup>5,6</sup>	4-1601068-2 <sup>2,5,6</sup>
				0.51	21.14	2-1601068-2 <sup>1,5,6</sup>	
				.032	.625	1601174-2 <sup>5,6</sup>	4-1601174-2 <sup>2,5,6</sup>
				0.81	15.88	2-1601174-2 <sup>1,5,6</sup>	
				.032	.655	1601035-1	4-1601035-1 <sup>2</sup>
				0.81	16.64	2-1601035-1 <sup>1</sup>	
				.032	.655	1601035-2 <sup>5</sup>	4-1601035-2 <sup>2,5</sup>
				0.81	16.64	2-1601035-2 <sup>1,5</sup>	
D Multi-Barb Short Profile	1601434	18-34	1.02-0.16	.032	.745	293029-1 <sup>5</sup>	-
				0.81	18.92	2-293029-1 <sup>1,5</sup>	
				.020	.655	1601142-1	4-1601142-1 <sup>2</sup>
				0.51	16.64	2-1601142-1 <sup>1</sup>	
				.032	0.492	1601058-2 <sup>5,7</sup>	4-1601058-2 <sup>2,5,7</sup>
				0.81	12.50	2-1601058-2 <sup>1,5,7</sup>	
E Multi-Barb .187/.250 Profile	1601425	18-34	1.02-0.16	.032	0.571	1601226-1 <sup>3,6</sup>	4-1601226-1 <sup>2,3,6</sup>
				0.81	14.50	2-1601226-1 <sup>1,3,6</sup>	
				.020	.655	1601020-1	4-1601020-1 <sup>2</sup>
				0.51	16.64	2-1601020-1 <sup>1</sup>	
				.020	.655	1601020-2 <sup>5</sup>	4-1601020-2 <sup>2,5</sup>
				0.51	16.64	2-1601020-2 <sup>1,5</sup>	
	18-34	1.02-0.16		.020	.805	1601049-2 <sup>5</sup>	4-1601049-2 <sup>2,5</sup>
				0.51	20.45	2-1601049-2 <sup>1,5</sup>	

1 Reverse Reeled-Consult TE drawing for orientation.  
 3 High Temperature Copper Alloy.  
 5 Finish is Pre Plated Tin (Consult TE drawing for specifics).  
 7 Extra Short Tab-Does not meet UL & NEMA length requirements.  
 \*\* Compliant contact can connect 2 wires of the same diameter

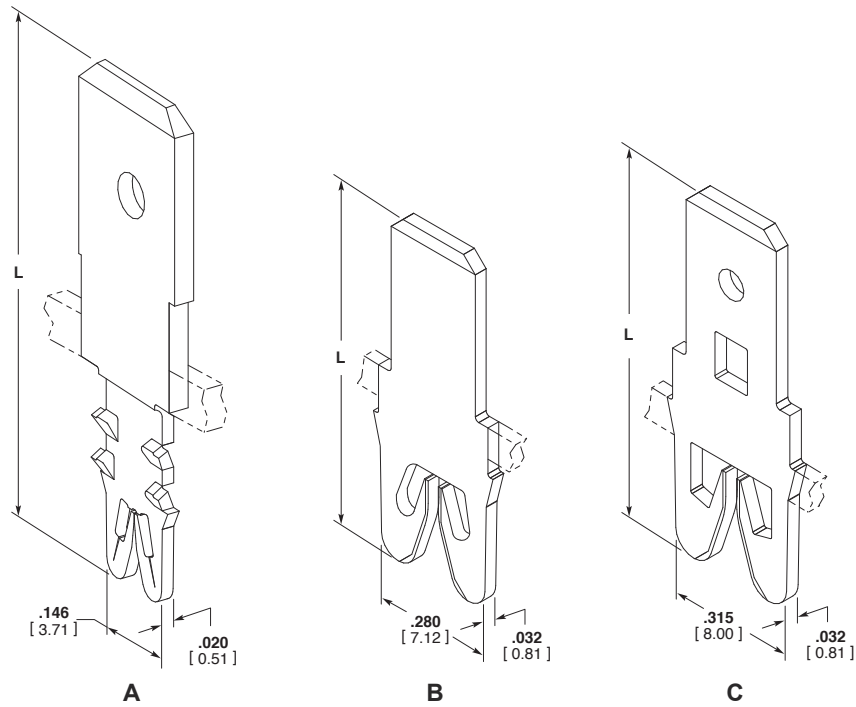
2 Loose Piece Single.  
 4 Finish is Post Plated Tin (Consult TE drawing for specifics).  
 6 No hole in Tab.  
 8 Magnet wire 30 AWG [0.25] and smaller also requires a wrap post per Specification 1601447.

**SIAMEZE Terminals (Continued)**

**250 Series (6.3 mm wide)  
FASTON Tab Terminals**

**Material**

Brass



Type	Recommended Pocket <sup>6</sup>	Copper Magnet Wire Range		L Dim.	Tab Feature	Tab Size	Part Number	
		AWG	mm				Reeled	Loose
A Multi-Barb	1601425	27-36	0.36-0.13	.745	Hole	.250 x .032 6.35 x 0.81	1601118-2 <sup>3</sup>	4-1601118-2 <sup>3</sup>
				18.92			2-1601118-2 <sup>1,3</sup>	
				.745			1601002-2 <sup>3</sup>	
		18-34	1.02-0.16	18.92	Hole	.250 x .032 6.35 x 0.81	2-1601002-2 <sup>1,3</sup>	4-1601002-2 <sup>3</sup>
				.805			1601028-2 <sup>3</sup>	4-1601028-2 <sup>3</sup>
				20.45			2-1601028-2 <sup>1,3</sup>	
Dimple	.250 x .032 6.35 x 0.81	1601028-1	4-1601028-1					
		2-1601028-1 <sup>1</sup>						
Hole	.250 x .032 6.35 x 0.81	284937-1 <sup>7</sup>	—					
		2-284937-1 <sup>1,7</sup>						
Dimple	.250 x .032 6.35 x 0.81	1601061-2 <sup>3</sup>	4-1601061-2 <sup>3</sup>					
		2-1601061-2 <sup>1,3</sup>						
Hole	.250 x .032 6.35 x 0.81	1601052-2 <sup>2,4</sup>	4-1601052-2 <sup>2</sup>					
		2-1601052-2 <sup>1,2,4</sup>						
B Single Barb Medium Range	1601438	12-23	2.03-0.56	.778	—	.250 x .032 6.35 x 0.81	1601139-2 <sup>3</sup>	4-1601139-2 <sup>3</sup>
				19.76			2-1601139-2 <sup>1,3</sup>	
C Single Barb Heavy Range	1601435	12-20	2.03-0.8	.885	Hole	.250 x .032 6.35 x 0.81	1601115-1	4-1601115-1
				22.48			2-1601115-1 <sup>1</sup>	
		16-17 <sup>5</sup>	1.27-1.15	.885	Hole	.250 x .032 6.35 x 0.81	1601159-1	4-1601159-1
				22.48			2-1601159-1 <sup>1</sup>	
14-15 <sup>5</sup>	1.60-1.40	.885	Hole	.250 x .032 6.35 x 0.81	1601161-1	4-1601161-1		
		22.48			2-1601161-1 <sup>1</sup>			

1 Reverse Reeled –Consult TE drawing for orientation.  
 2 Finish is Pre-Plated Tin over Copper (Consult TE drawing for specifics).  
 3 Finish is Pre-Plated Tin (Consult TE drawing for specifics).  
 4 Double Carrier Strip.  
 5 Two magnet wires may be terminated in the same slot if diameters are equal.  
 6 Magnet wire 30 AWG [0.25 mm] and smaller also requires a wrap post per drawing 1601447.  
 7 Hole size and position complies with DIN standard.

SIAMEZE Terminals

**SIAMEZE Terminals** (Continued)

**Typical Plastic Cavity Pockets**

**Note:**The overall dimensions shown on these pages are for general reference only. For design purposes refer to the TE Cavity Specification.

Plastic cavities, designed to TE specifications, may be molded as part of the coil bobbin or attached to a lamination stack in the area of the magnet wire coil.

Each cavity is a rectangular box with two narrow slots on opposing walls and a plastic cutoff or tie-off post.

During or after the winding process, the magnet wire is placed across the plastic cavities and into the slots, either manually or by coil winding equipment.

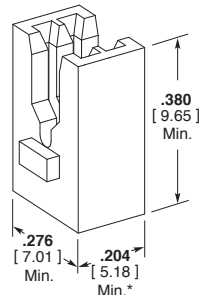
Unraveling is prevented by a slight friction fit, suitable bend or by wrapping the magnet wire around the wrap post.

During insertion, the insulation displacing terminal slot strip the film insulation from the magnet wire producing a stable electrical termination.

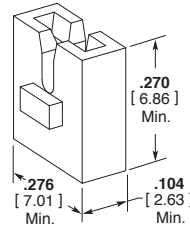
Terminal retention is retained in the plastic cavities by single or multiple barbs (Refer to Product Spec for force requirements).

Excess magnet wire is trimmed flush with the outside of the plastic cavity by a shear blade traveling with the terminal insertion ram.

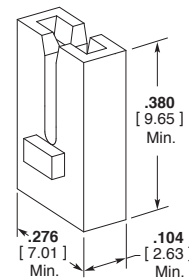
**TE can provide design and mold engineering resources to manufacture most specifically designed SIAMEZE cavity housings.**



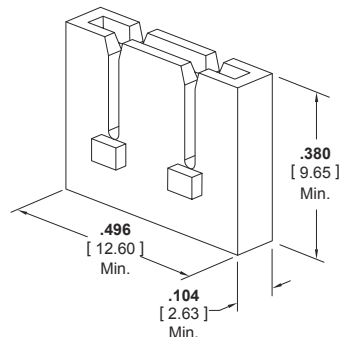
Cavity Specification 1601421



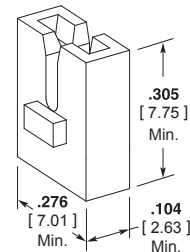
Cavity Specification 1601424



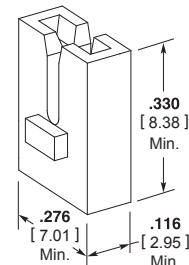
Cavity Specification 1601425



Cavity Specification 1601426



Cavity Specification 1601427

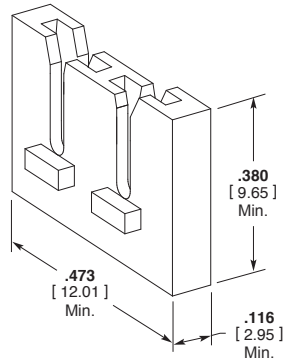


Cavity Specification 1601431

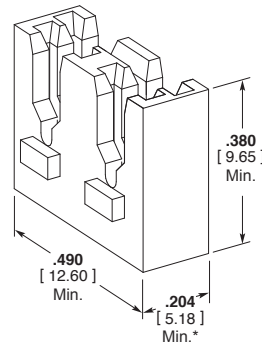
\* Minimum dimension with Lead Lok slot.

**SIAMEZE Terminals (Continued)**

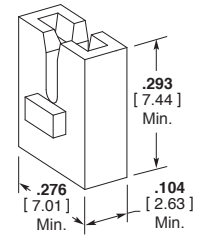
**Typical Plastic Cavity Pockets (Continued)**



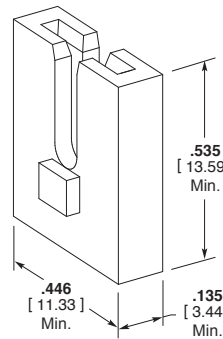
**Cavity Specification 1601432**



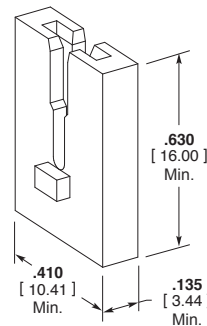
**Cavity Specification 1601433**



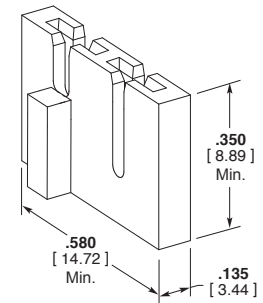
**Cavity Specification 1601434**



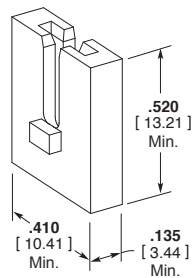
**Cavity Specification 1601435**



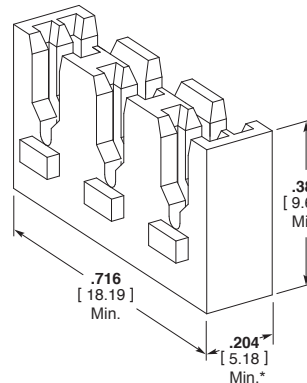
**Cavity Specification 1601436**



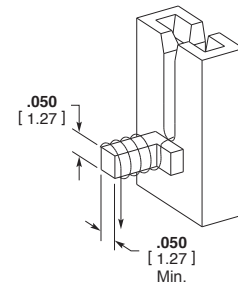
**Cavity Specification 1601437**



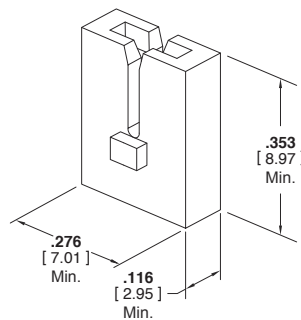
**Cavity Specification 1601438**



**Cavity Specification 1601440**



**Wrap Post Specification 1601447**



**Cavity Specification 1601475**

\* Minimum dimension with Lead Lok slot.

SIAMEZE Terminals