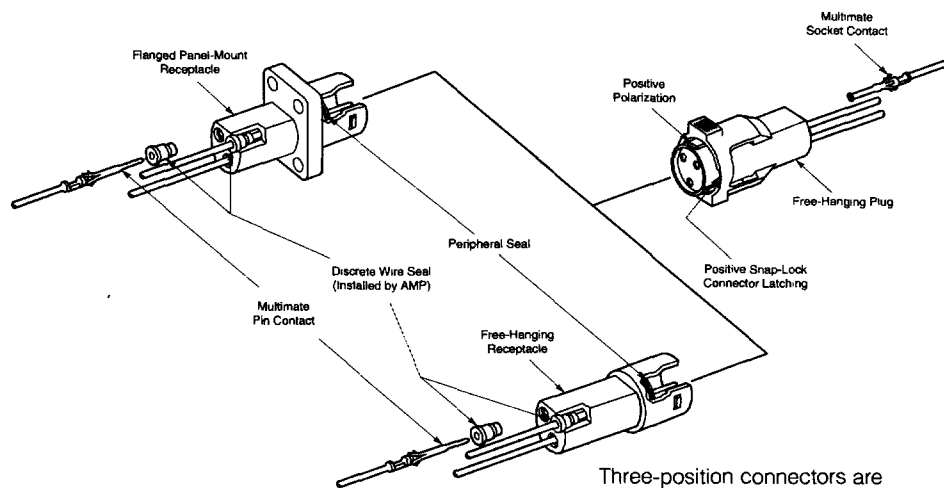


## Econoseal Sealed Pin and Socket Connectors

### Product Facts

- Low cost
- Available in popular 1- through 9-position sizes; in free-hanging and panel-mount versions
- Accepts all AMP Multimate contacts with .062 [1.57] pin diameter; Type III+ and Type VI and subminiature coaxial contacts
- No mating hardware required
- Housings provide positive latching and polarization
- Discrete wire seals are factory installed, but replaceable
- Square flange design permits bulkhead mounting
- Easy contact insertion and extraction; no special fixturing required
- Rigid thermoplastic material is resistant to most hydrocarbons and will not flex or overstress contacts, UL 94V-2 rated
- Accommodates 18-14 AWG [0.8-2 mm<sup>2</sup>] wires; .080 to .135 [2.03 to 3.43] insulation diameters
- Machine applied terminations assure highest production rates at lowest applied costs
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476



Three-position connectors are shown for illustration purposes only.

## Free-Hanging and Flanged Panel Mount Connectors

Note: 4 Pos. Housing O.D. Dim. (Typ.)—Free-Hanging Plug, .567 [14.41]; Free-Hanging Receptacle, .663 [16.84]; Flanged Receptacle, .730 [18.54]

No. of Positions	Part Numbers		
	Free-Hanging Plug	Free-Hanging Receptacle	Flanged Panel Mount Receptacle
1	207901-1	207902-1	207982-1
2	207845-1	207846-1	207853-1
3	207567-1	207563-1	207807-1
4	207571-1	207569-1	207808-1
5	207847-1	207848-1	—
6	207849-1	207850-1	—
7	207575-1	207573-1	—
8	208678-1	211068-1	208677-1
9	208530-1	208538-1	208546-1

Notes: 1. Plugs mate with Free-Hanging or Flanged Receptacles.  
2. Plugs accept socket contacts; receptacles accept pin contacts. All contacts must be purchased separately.  
3. Discrete wire seals are factory installed, but can be replaced. Use Part No. 207565-2 when ordering individual discrete wire seals.

2  
Pin and Socket Connectors  
Econoseal Sealed Pin and Socket Connectors

### Multimate Contacts

#### Type III+ Contacts

Contact Size—16

Pin Diameter—.062 [1.57]

Test Current—13 amperes\*



Pin



Socket

\*Note: Total current capacity of each contact in any given connector is dependent on the heat rise resulting from the combination of electrical loads of all contacts in the connector arrangement and the maximum ambient temperature in which the connector will be operating.

Type III+ contacts are crimp snap-in, precision formed contacts for high-volume, low-cost application. They feature bell-mouthed sockets to give closed entry, external retention

springs for quick, firm seating in the connector block, and a cantilever engagement spring to provide controlled contact pressures for optimum conductivity and minimum

surface wear. Type III+ contacts are available in strip form for high-speed application with automatic machines and in loose piece form for hand tool crimping.

Wire Size Range <sup>1</sup>		Ins. Dia. Range	Contact Finish	Strip Form Contact Part No.		Loose Piece Contact Part No.		Tooling Part No.	
AWG	mm <sup>2</sup>			Pin <sup>2</sup>	Socket <sup>2</sup>	Pin <sup>2</sup>	Socket <sup>2</sup>	Strip Form Quick-Change Applicator	Loose Piece Hand Tool
18-16	0.8-1.4	.080-.100 2.03-2.54	Gold/Nickel	66098-6	66100-6	66099-1	66101-1	466325-5 <sup>3</sup> 466906-1 <sup>4</sup>	58495-1 <sup>5</sup> 90067-5
			Tin	66098-7	66100-7	66099-2	66101-2		
			Sel. Gold/Nickel	66098-9	66100-9	66099-4	66101-4		
18-14	0.8-2	.110-.130 2.79-3.3	Tin	66597-1	66598-1	66602-1	66601-1	466752-4 <sup>3</sup> 466958-1 <sup>4</sup>	90310-2
			Gold/Nickel	66597-2	66598-2	66602-2	66601-2		

<sup>1</sup>Wire strip length—.156 [3.96] for all wire sizes.

<sup>2</sup>Plastic sheath Part No. 208337-1 must be used when inserting Type III+ pins into sealed connectors, and plastic sheath Part No. 208338-1 must be used when inserting Type III+ sockets into sealed connectors.

<sup>3</sup>Applicator for use in AMP-O-ELECTRIC Machine Part No. 354500-1.

<sup>4</sup>Applicator for use in Stripper/Crimper Machine Part No. 854040-3.

<sup>5</sup>PRO-CRIMPER II Hand Tool for field installations and maintenance work.

Notes: 1. Contact AMP for applicators to be used in AMPOMATOR machines.

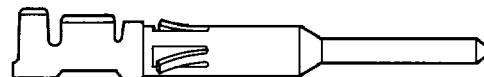
2. Extraction Tool Part No. 305183.

### Type VI Contacts

Contact Size—16

Pin Diameter—.062 [1.57]

Test Current—13 amperes\*



Pin



Socket

\*Note: Total current capacity of each contact in any given connector is dependent on the heat rise resulting from the combination of electrical loads of all contacts in the connector arrangement and the maximum ambient temperature in which the connector will be operating.

Type VI contacts are precision formed contacts designed for maximum economy. They feature the same insulation support as the Type III+

contacts, and also have the bell-mouth entry with the cantilever engagement spring built into the socket contact. Type VI contacts are

exceedingly versatile, permitting the intermixing of two types of precision formed contacts (Type VI and III+) with only one set of tooling required.

Wire Size Range <sup>1</sup>		Ins. Dia. Range	Contact Material	Contact Finish	Strip Form Contact Part No.		Loose Piece Contact Part No.		Tooling No.	
AWG	mm <sup>2</sup>				Pin	Socket	Pin	Socket	Strip Form Quick-Change Applicator	Loose Piece Hand Tool
18-16	0.8-1.4	.080-.100 2.03-2.54	Brass	Tin	66579-2	66580-2	66589-1	66590-1	466325-5 <sup>2</sup> 466906-1 <sup>3</sup>	58495-1 <sup>4</sup> 90067-5
				Sel. Gold/Nickel	66579-4	66580-4	66589-2	66590-2		
				Tin	66577-2	66578-2	66587-1	66588-1		
18-14	0.8-2	.080-.135 2.03-3.43	Brass	Sel. Gold/Nickel	66577-4	66578-4	66587-2	66588-2	—	90310-1

<sup>1</sup>Wire strip length—.156 [3.96] for all wire sizes.

<sup>2</sup>Applicator for use in AMP-O-ELECTRIC Machine Part No. 354500-1.

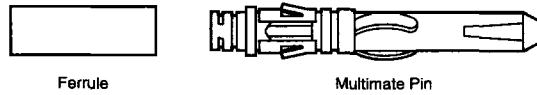
<sup>3</sup>Applicator for use in Stripper/Crimper Machine Part No. 854040-3.

<sup>4</sup>PRO-CRIMPER II Hand Tool for field installations and maintenance work.

Notes: 1. Contact AMP for applicators to be used in AMPOMATOR machines.

2. Extraction Tool Part No. 305183.

### Multimate Contacts (Continued)



### Subminiature COAXICON Contacts

**Finish:**

**Center Contacts, Outer Shells—**  
.000030 [0.00076] gold over .000050  
[0.00127] nickel

**Ferrules—**Tin plated



The AMP subminiature COAXICON contact is a crimp, snap-in contact, designed for high-density and multiple circuit connector applications. A single crimp terminates inner

conductor, braid and cable support. Its design includes complete contact assembly with built-in retention spring and separate ferrule.

Cable Size		mm <sup>2</sup>	Loose Piece Contact No.		Ferrule No.	Hand Tool No.	Die Insert Nos. for Hand Tool 69710-1 or Pneumatic Tool 69365-3 <sup>1</sup>
RG or AWG			Pin	Socket			
RG-178, 196		—	226537-2	51565-2	1-332057-0	69656-2	69690-2
RG-196 Double Braid		—	226537-2	51565-2	225088-1	69656-9	—
RG-174, 188, 316		—	226537-1	51565-1	1-332056-0	69656	69690
RG-174 Double Braid		—	226537-1	51565-1	225088-3	69656-7	—
RG-179, 187		—	226537-1	51565-1	1-332056-0	69656-1	69690-1
RG-187 Double Braid		—	226537-1	51565-1	225088-1	69656-8	—
RG-161		—	226537-1	51565-1	1-332056-0	69656-5	—
26 AWG	Twisted Pair Solid or Stranded (7 str.) .0063 [0.16] Dia.	0.12–0.15	226537-3	51565-3	1-332057-0	69656	69690
28 AWG	Twisted Pair Solid	0.08–0.09	226537-3	51565-3	1-332057-0	69656	69690
28 AWG	Twisted Pair Stranded (7 str.) .005 [0.13] Dia.	0.08–0.09	226537-3	51565-3	1-332057-0	69656-1 or 69656-2	69690-1 or 69690-2
30 AWG	Twisted Pair Solid	0.05	226537-3	51565-3	1-332057-0	69656-2	69690-2

<sup>1</sup>Includes bench mount and foot control.  
**Note:** Extraction Tool Part No. 305183.