

**Universal MATE-N-LOK Connectors (Continued)**

**Contacts**

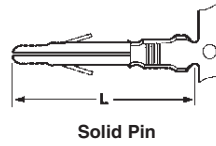
Solid pin diameter .084 [2.13]  
Stock thickness .012 [.305] unless otherwise noted.  
These contacts can be used in either Universal MATE-N-LOK Plug or Cap housings **only**.

**Related Product Data**

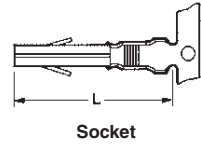
**Product Specification**  
108-1031 Universal MATE-N-LOK Connectors

**Application Specification**  
114-1010 Universal MATE-N-LOK Contacts

**Performance Characteristics**— pages 169-170  
**Technical Documents**— pages 169 and 205-206  
**Application Tooling**— pages 207-210  
**Housings**— page 174



**Solid Pin**



**Socket**

Wire Size Range AWG (mm <sup>2</sup> )	Ins. Dia. Range	L Dim.		Material & Finish	Contact Part Numbers				HDM Applicator Part No.	Hand Tool Part No.
		Pin	Socket		Pin		Socket			
					Strip Form	Loose Piece	Strip Form	Loose Piece		
30-26 [.05-.12]	.032-.057 .813-1.45	.790 20.06	.760 19.30	Brass, Pre-tin	350924-1	770672-1	350925-1	770673-1	466616-2 <sup>6</sup> 466616-3 <sup>6</sup>	58439-1
				Phos. Brz., Gold <sup>2</sup>	350924-6	770672-6	350925-6	—		
24-18 [.2-.8]	.040-.100 1.02-2.54	.790 20.06	.760 19.30	Brass, Pre-tin	350561-1	350690-1	350851-1 350570-1 <sup>1</sup>	350689-1 <sup>1</sup>	466320-1 <sup>6</sup> 466320-2 <sup>6</sup> 466320-4 <sup>6</sup>	91510-1
				Brass, Gold <sup>2</sup>	350561-2	350690-2	350851-2 350570-2 <sup>1</sup>	640347-2 350689-2 <sup>1</sup>		
				Brass, Select Gold <sup>3</sup>	350561-7	350690-7	350851-7 350570-7 <sup>1</sup>	350689-7 <sup>1</sup>		
				Phos. Brz., Pre-tin	350561-3	350690-3	350570-3 <sup>1</sup>	350689-3 <sup>1</sup>		
20-14 [.5-2.0]	.060-.130 1.52-3.30	.790 20.06	.760 19.30	Phos. Brz., Select Gold <sup>3</sup>	—	—	350570-6 <sup>1</sup>	—	687763-1 <sup>6</sup> 687763-2 <sup>6</sup> 687763-6 <sup>6</sup>	91500-1
				Brass, Pre-tin	350218-1	350547-1	350536-1	350550-1		
				Brass, Gold <sup>2</sup>	350218-2	350547-2	350536-2	350550-2		
				Brass, Select Gold <sup>3</sup>	350218-7	350547-7	350536-7	350550-7		
				Phos. Brz., Pre-tin	350218-3	350547-3	350536-3	350550-3		
				Phos. Brz., Select Gold <sup>3</sup>	350218-6	350547-6	350536-6	350550-6		
20-14 [.5-2.0] or 2@18 [.8]	.130-.200 3.30-5.08	.810 20.57	.780 19.81	Brass, Pre-tin	350538-1	350552-1	350537-1	350551-1	687926-1 <sup>6</sup> 687926-2 <sup>6</sup> 687926-6 <sup>6</sup>	91508-17 91506-17
				Brass, Gold <sup>2</sup>	350538-2	350552-2	350537-2	350551-2		
				Brass, Select Gold <sup>3</sup>	350538-7	350552-7	350537-7	350551-7		
				Phos. Brz., Pre-tin	350538-3	350552-3	350537-3	350551-3		
18-14 <sup>4</sup> [.8-2.0]	.130-.200 3.30-5.08	.810 20.57	.780 19.81	Phos. Brz., Select Gold <sup>3</sup>	350538-6	350552-6	350537-6	350551-6	466588-1 <sup>6</sup> 466588-2 <sup>6</sup> 466588-3 <sup>6</sup>	91508-17 91506-17
				Brass, Pre-tin	350873-1	—	350874-1	—		
12-10 [3.0-5.0]	.200 max. <sup>5</sup> 5.08	.810 20.57	.780 19.81	Phos. Brz., Pre-tin	350873-3	350918-3	350874-3	350919-3	466597-1 <sup>6</sup> 466597-2 <sup>6</sup> 466597-3 <sup>6</sup>	69710-17
				Phos. Brz., Select Gold <sup>3</sup>	350922-3	640309-3	350923-3	640310-3		
				Phos. Brz., Pre-tin	350922-6	640309-6	350923-6	640310-6		

<sup>1</sup>Socket Contact — .010 [.254] stock thickness  
<sup>2</sup>Gold Finish — Plated with .000030 [.000762] min. gold in mating area and inside wire barrel over .000050 [.00127] min. nickel underplate on entire contact.  
<sup>3</sup>Select Gold Finish — Plated with .000030 [.000762] min. gold in mating area over .000050 [.00127] min. nickel underplate on entire contact.  
<sup>4</sup>Recommended for predominant use of 14 AWG wire.  
<sup>5</sup>There is no insulation barrel on this contact. Insulation maximum diameter is limited by the housing.  
<sup>6</sup>HDM Applicator part number ending in -1 is used on AMPOMATOR CLS Machine with T or G Terminators, -2 is used on AMP-O-LECTRIC Model K Machine, -3, -4 & -6 are used on AMP-O-LECTRIC Model G Machine. See pages 207-210 for further information.  
<sup>7</sup>Hand Tool No. **91508-1** is for wire size 20-18 AWG. Hand Tool No. **91506-1** is for wire size 16-14 AWG. Hand Tool No. **69710-1** use die set No. **58380-1** for 12 AWG and No. **58380-2** for 10 AWG.  
**Note:** Phosphor bronze material contacts should be used in high temperature/humidity cycling applications.  
**Note:** All part numbers are RoHS Compliant.



**Contact Retention Test Tool**  
Part No. 1586701-1  
IS 408-10003



**Contact Extraction Tool**  
Part No. 318851-1  
IS 408-4371



**Contact Insertion Tool**  
(For inserting contacts applied to small diameter wire)  
Part No. 91002-1  
IS 408-7347

**Universal MATE-N-LOK Connectors (Continued)**

**Contacts**

Split pin diameter .086 [2.18]  
Stock thickness .012 [.305]  
These contacts can be used in either Universal MATE-N-LOK Plug or Cap housings **only**.

**Related Product Data**

**Product Specification**

108-1031 Universal MATE-N-LOK Connectors

**Application Specification**

114-1010 Universal MATE-N-LOK Contacts

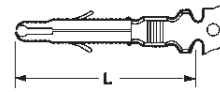
**Performance Characteristics**—pages 169-170

**Technical Documents**—pages 169 and 205-206

**Application Tooling**—pages 207-210

**Housings**—page 174

**Split Pins**



Wire Size Range AWG [mm <sup>2</sup> ]	Ins. Dia. Range	L Dim.	Material & Finish	Contact Part Number		HDM Applicator Part No.	Hand Tool Part No.
				Strip Form	Loose Piece		
24-18 [-2-.8]	<b>.040-.100</b> 1.02-2.54	<b>.790</b> 20.06	Brass, Pre-tin	350699-1	350706-1	466320-1 <sup>3</sup>	91510-1
			Brass, Gold <sup>1</sup>	350699-2	350706-2	466320-2 <sup>3</sup>	
			Brass, Select Gold <sup>2</sup>	350699-7	350706-7	466320-4 <sup>3</sup>	
20-14 [.5-2.0]	<b>.060-.130</b> 1.52-3.30	<b>.790</b> 20.06	Brass, Pre-tin	350687-1	350705-1	687763-1 <sup>3</sup>	91500-1
			Brass, Gold <sup>1</sup>	350687-2	350705-2	687763-2 <sup>3</sup>	
			Brass, Select Gold <sup>2</sup>	350687-7	350705-7	687763-6 <sup>3</sup>	
20-14 [.5-2.0] or 2@18 [.8]	<b>.130-.200</b> 3.30-5.08	<b>.810</b> 20.57	Brass, Pre-tin	350700-1	350707-1	687926-1 <sup>3</sup>	91508-14 91506-14
			Brass, Gold <sup>1</sup>	350700-2	350707-2	687926-2 <sup>3</sup>	
			Brass, Select Gold <sup>2</sup>	350700-7	350707-7	687926-6 <sup>3</sup>	

<sup>1</sup>Gold Finish — Plated with .000030 [.000762] min. gold in mating area and inside wire barrel over .000050 [.00127] min. nickel underplate on entire contact.

<sup>2</sup>Select Gold Finish — Plated with .000030 [.000762] min. gold in mating area over .000050 [.00127] min. nickel underplate on entire contact.

<sup>3</sup>HDM Applicator part number ending in -1, is used on AMPOMATOR CLS Machine with T or G Terminators, -2 is used on AMP-O-LECTRIC Model K Machine, -4 & -6 are used on AMP-O-LECTRIC Model G Machine. See pages 207-210 for further information.

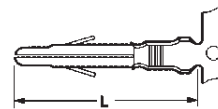
<sup>4</sup>Hand Tool No. **91508-1** for wire size 20-18 AWG. Hand Tool No. **91506-1** for wire size 16-14 AWG.

**Notes:**

1. Split pins recommended for use in housings having 6, 9, 12 and 15 circuits to reduce mating force.
2. Phosphor bronze material contacts are available for use in high temperature/humidity cycling applications, consult Tyco Electronics.

**Grounding Pins**

(.100 [2.54] longer than standard pin)  
(Mate first, break last, not for interrupting current)



Wire Size Range AWG [mm <sup>2</sup> ]	Ins. Dia. Range	L Dim.	Material & Finish	Contact Part Number		HDM Applicator Part No.	Hand Tool Part No.
				Strip Form	Loose Piece		
24-18 [-2-.8]	<b>.060-.130</b> 1.52-3.30	<b>.890</b> 22.60	Brass, Pre-tin	770210-1	—	567216-2 <sup>2</sup> 567216-3 <sup>2</sup>	—
20-14 [.5-2.0]	<b>.060-.130</b> 1.52-3.30	<b>.890</b> 22.60	Brass, Pre-tin	350654-1	350669-1	687763-1 <sup>2</sup> 687763-2 <sup>2</sup> 687763-6 <sup>2</sup>	91500-1
12-10 [3.0-5.0]	<b>.200 max.<sup>1</sup></b> 5.08	<b>.910</b> 23.11	Phos. Brz., Pre-tin	770234-3	—	466597-1 <sup>2</sup> 466597-2 <sup>2</sup> 466597-3 <sup>2</sup>	—

<sup>1</sup>There is no insulation barrel on this contact. Insulation maximum diameter is limited by the housing.

<sup>2</sup>HDM Applicator part number ending in -1 is used on AMPOMATOR CLS Machine with T or G Terminators, -2 is used on AMP-O-LECTRIC Model K Machine, -3 & -6 are used on AMP-O-LECTRIC Model G Machine. See pages 207-210 for further information.

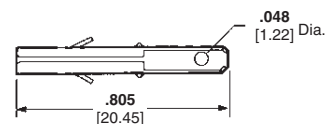
**Programmable Connector**

**Contact**

(Socket with 110 Series Special FASTON Tab)

**Material and Finish**

Brass, pre-tin



**Part Number**  
**350877-1**

**Note:** This contact will accept a 110 Series FASTON Receptacle — Part No. **350871-1** (strip form) allowing simple field wiring or wiring changes.

**Note:** All part numbers are RoHS Compliant.