

Mod IV Wire-Applied Contacts and Housings

Product Facts

- Terminates 32-20 AWG [0.03-0.6mm²] discrete wire
- Contacts have insulation support
- Choice of three contact mating pressures
- Available in a variety of gold and tin platings
- Receptacles mate with .025 [0.64] square or round posts
- Dual cantilever contact beam with built-in anti-overstress feature for reliable matings
- Housings accept a variety of receptacle and pin contacts
- Housing sizes range up to 100 positions
- Housing configurations include single- and double-rows on .100 [2.54] centerlines
- Housing options include detent latching, polarization and bonded strain relief/pull tabs
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR 7189

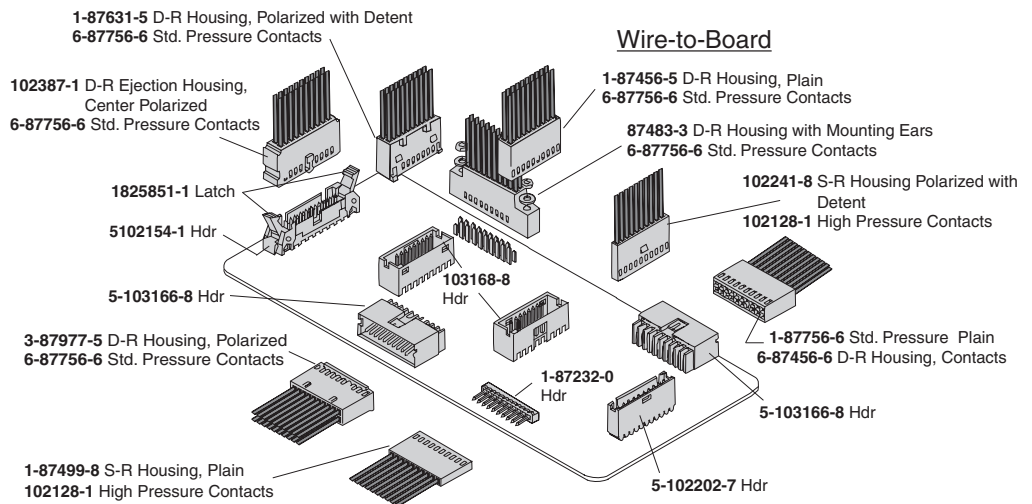
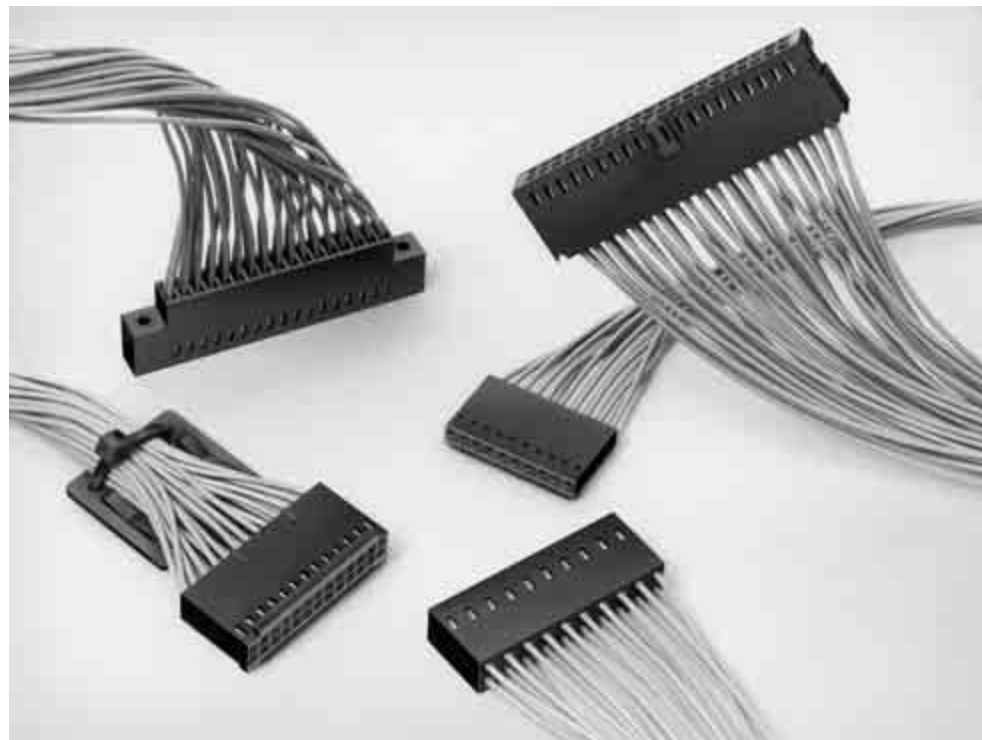


Performance Characteristics

Contact Current Rating — 3 amperes

Termination Resistance — 12 milliohms (max.) — Beryllium copper contacts
20 milliohms (max.) — Copper-tin-phosphor bronze contacts

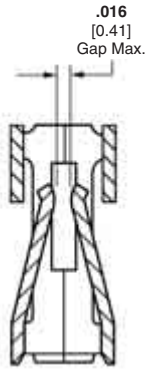
Durability — Ref. Product Specification 108-25020



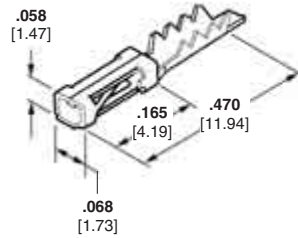
Note: All part numbers are RoHS compliant.

Mod IV Pin and Receptacle Contacts

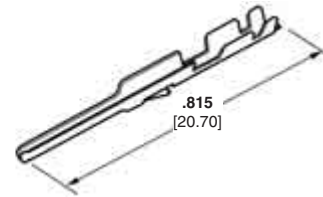
Crimp Snap-In (No-strip) Receptacles and Crimp Snap-In Pins with Insulation Support (Standard Pressure)



Standard Pressure Configuration



No-Strip Receptacle



Pin with Insulation Support

Crimp Snap-In (No-strip) Receptacles

Ins. Dia. Range	Finish	Part Nos.		Heavy Duty Miniature Applicator No. for AMP-O-LECTRIC Machine*	Hand Tool Part No.
		Strip Form	Loose Piece		
.040-.055 [1.02-1.40]	Plating A	87107-5	102348-2	567307-2	90381-1
	Plating C	87107-6	102348-3		

Material and Finish

Beryllium copper, phosphor bronze, or copper-tin-phosphor bronze (see charts), plated as follows:

Plating A — Selectively plated .000030 [0.00076] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating B — Selectively plated .000015 [0.00038] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating C — .000100-.000200 [0.00254-0.00508] tin over .000030 [0.00076] nickel on entire contact

Related Product Data

Housings Used With — pages 214-220

Performance Characteristics — page 210

Application Tooling — page 270-272

Technical Documents — pages 276-278

Product Specification 108-25007, 108-25019, 108-25020, 108-25021

Application Specification 114-25003, 114-25016

Additional header sizes are available; minimum order quantities may apply. Consult Tyco Electronics.

Crimp Snap-In Pins with Insulation Support

Wire Size Range		Ins. Dia. (Max.)	Finish	Part Nos.		Heavy Duty Miniature Applicator No. for AMP-O-LECTRIC Machine*	Hand Tool Part No.	
AWG	[mm ²]			Strip Form	Loose Piece		Premium	Commercial
26-22	0.12-0.4	.061 [1.55]	Plating A	102095-3	102107-2	466812-2	91517-1	58641-1†
			Plating B	102095-2	102107-1			
			Plating C	5-102095-4	5-102107-3			

*For use with AMP-O-LECTRIC Model "K" machines. Call the Technical Support Center (1-800-522-6752) for part nos. of applicators for use with the AMP-O-LECTRIC Model "G" machines (shown on page 270), as well as other bench machines and fully automatic AMPOMATOR lead making machines.

†PRO-CRIMPER II hand tool frame with die set assembly. Die Set Part No. 58641-2

Note: All part numbers are RoHS compliant.

Mod IV Receptacle Contacts

Crimp Snap-In Receptacles with Insulation Support (Standard, Intermediate and High Pressure)

Material and Finish

Beryllium copper, phosphor bronze or copper-tin-phosphor bronze (see charts, on following page), plated as follows:

Plating A — Duplex plated .000030 [0.00076] gold on contact area, .000100-.000200 [0.00254-0.00508] tin on crimp area, with entire contact underplated .000050 [0.00127] nickel

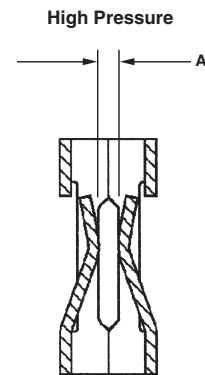
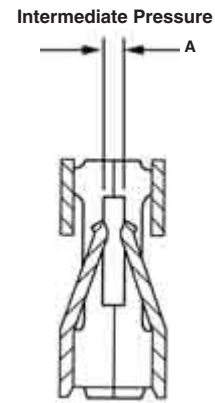
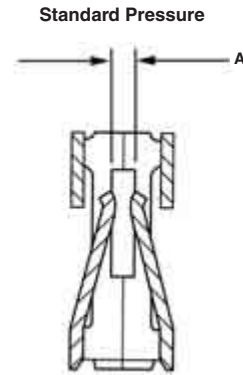
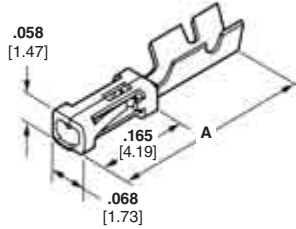
Plating B — Duplex plated .000015 [0.00038] gold on contact area, .000100-.000200 [0.00254-0.00508] tin on crimp area, with entire contact underplated .000050 [0.00127] nickel

Plating D — Selectively plated .000050 [0.00127] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating E — Selectively plated .000030 [0.00076] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating F — Selectively plated .000015 [0.00038] gold on contact area, with gold flash over .000050 [0.00127] nickel on entire contact

Plating G — .000100-.000200 [0.00254-0.00508] tin over .000030 [0.00076] nickel on entire contact



Related Product Data

Housings Used With — pages 214-220

Performance Characteristics — page 210

Application Tooling — pages 270-272

Technical Documents — pages 277, 278

Product Specification
108-25007, 108-25019, 108-25020, 108-25021

Application Specification
114-25003, 114-25016

	Mating Force	Unmating Force	A-Gap Dimension
Standard Pressure	9 oz. Max.	1.5 oz. Min.	.008/.014
Intermediate Pressure	16 oz. Max.	2 oz. Min.	.008/.014
High Pressure	20 oz. Max.	3 oz. Min.	.013±.002

Mod IV Receptacle Contacts (Continued)

Standard Pressure (Mod IV)

Wire Size Range AWG [mm ²]	Ins. Dia. (Max.)	Dimension A	Material	Finish	Part Nos.		Heavy Duty Miniature Applicator for AMP-O-LECTRIC Machine*	Applicator for Stripper/Crimper Machine	Hand Tool Part Nos.	
					Strip Form	Loose Piece			Premium	Commercial
32-27 0.03-0.1	.040 [1.02]	.445 [11.30]	Cu-Sn-Ph Bz	Plating A	5-102316-8	6-102316-4	466655-2	466921-1	91541-1	—
			Cu-Sn-Ph Bz	Plating B	5-102316-6	6-102316-3				
			Be Cu	Plating D	1-102917-1	1-102917-2				
			Be Cu	Plating E	102917-1	102917-2				
			Be Cu	Plating F	102917-5	102917-6				
26-22 0.12-0.4	.061 [1.55]	.445 [11.30]	Cu-Sn-Ph Bz	Plating G	102316-5	1-102316-2	466571-2	466918-1	91517-1	58641-1†
			Cu-Sn-Ph Bz	Plating A	6-87756-7	6-87756-8				
			Cu-Sn-Ph Bz	Plating B	6-87756-2	6-87756-6				
			Cu-Sn-Ph Br	Plating G	87756-6	87756-7				
			Be Cu	Plating D	1-87666-6	87667-5				
			Be Cu	Plating E	87666-2	87667-2				
			Be Cu	Plating F	87666-5	87667-5				
			Be Cu	Plating G	87666-3	87667-3				
24-20 0.2-0.6	.069 [1.75]	.470 [11.94]	Cu-Sn-Ph Bz	Plating A	6-87523-8	6-87523-9	466562-2	466905-1	91516-1	—
			Cu-Sn-Ph Bz	Plating B	2-87523-3	2-87523-4				
			Be Cu	Plating E	85969-8	86016-2				
			Be Cu	Plating F	85969-6	86016-5				
			Cu-Sn-Ph Br	Plating G	87523-5	87523-6				
			Be Cu	Plating G	85969-9	86016-3				

Intermediate Pressure (Mod IV.v)

Wire Size Range AWG [mm ²]	Ins. Dia. (Max.)	Dimension A	Material	Finish	Part Nos.		Heavy Duty Miniature Applicator for AMP-O-LECTRIC Machine*	Applicator for Stripper/Crimper Machine	Hand Tool Part Nos.	
					Strip Form	Loose Piece			Premium	Commercial
32-27 0.03-0.1	.040 [1.02]	.445 [11.30]	Cu-Sn-Ph Bz	Plating A	5-102920-1	5-102920-2	466655-2	466921-1	91541-1	—
			Be Cu	Plating E	102918-1	102918-2				
26-22 0.12-0.4	.061 [1.55]	.445 [11.30]	Cu-Sn-Ph Bz	Plating A	5-103171-4	5-103171-5	466571-2	466918-1	91517-1	58641-1†
			Cu-Sn-Ph Bz	Plating B	5-103171-1	5-103171-2				
			Be Cu	Plating E	102548-5	102548-6				
24-20 0.2-0.6	.069 [1.75]	.470 [11.94]	Be Cu	Plating F	102548-1	102548-3	466562-2	466905-1	91516-1	—
			Cu-Sn-Ph Bz	Plating A	2-87195-3	2-87195-6				
			Cu-Sn-Ph Bz	Plating B	2-87195-4	2-87195-5				
			Be Cu	Plating E	86492-6	87046-3				
			Be Cu	Plating F	86492-2	87046-1				
			Be Cu	Plating G	86492-9	87046-4				

High Pressure (Mod V)**

Wire Size Range AWG [mm ²]	Ins. Dia. (Max.)	Dimension A	Material	Finish	Part Nos.		Heavy Duty Miniature Applicator for AMP-O-LECTRIC Machine*	Applicator for AMP-O-MATIC Stripper/Crimper Machine	Hand Tool Part Nos.
					Strip Form	Loose Piece			
32-27 0.03-0.1	.040 [1.02]	.445 [11.30]	Ph Bz	Plating E	103455-1	103455-2	466655-2	466921-1	91541-1
26-22 0.12-0.4	.061 [1.55]	.445 [11.30]	Ph Bz	Plating E	87809-1	102128-1	466571-2	466918-1	91517-1
			Ph Bz	Plating G	87809-2	102128-2			
24-20 0.2-0.6	.069 [1.75]	.470 [11.94]	Ph Bz	Plating E	87309-9	1-87309-4	466562-2	466905-1	91516-1
			Ph Bz	Plating G	87309-8	1-87309-3			

*For use with AMP-O-LECTRIC Model "K" machines. Call the Technical Support Center (1-800-522-6752) for part nos. of applicators for use with the AMP-O-LECTRIC Model "G" machines (shown on page 270), as well as other bench machines and fully automatic AMPOMATOR lead making machines.

**Contact material is phosphor bronze.

†PRO-CRIMPER II hand tool frame with die set assembly.
Die Set Part No. 58641-2

Note: All part numbers are RoHS compliant.