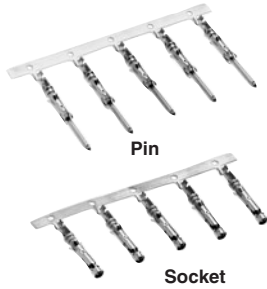


Note: All part numbers are RoHS Compliant.

Signal Contacts

Type III+, Crimp, Snap-In



Material and Finish — See chart.

Contact Body—Brass or phosphor bronze

Retention Spring—Stainless steel

Application Tooling—Pages 76-79

Technical Documents

114-10004 Application Specification

108-10042 Product Specification

Contact Size 16—Pin Diameter .062 [1.57] (Test Current, 13 Ampere)†

†Single contact, free-air test current is not to be construed as contact rating current. Use only for testing. Refer to contact current carrying capability information on page 8.

AWG	Wire Size Range mm ²	Ins. Dia. Range	Contact Finish	Strip Form Contact No.		Loose Piece Contact No.		Tooling Part No.	
				Pin	Socket	Pin	Socket	Loose Piece Hand Tool	Strip Form Applicators
30-28	0.05-0.09	.015-.030 0.38-0.76	Gold/Nickel ²	788085-3	788088-2	—	—	90716-1	567867-1*** or 567947-1*** or 680602-□***
			Sel. Gold/Nickel ³	788085-1	788088-1	788085-4	788088-3		
30-26	0.05-0.15	.040-.060 ¹ 1.02-1.52	Bright Tin	1-66425-2	1-66424-1	—	—	91515-1 ⁶	466598-□***
			Gold/Nickel ²	66425-7	66424-7	66429-3	66428-3		
			Sel. Gold/Nickel ³	66425-8	66424-8	66429-4	66428-4		
			Gold/Nickel ²	66393-7	66394-7	—	—		
26-24	0.12-0.2	.035-.055 ¹ 0.89-1.40	Sel. Gold/Nickel ³	66393-8	66394-8	66406-4	66405-4	91515-1 ⁶	466321-□*** or 466908-2***
			Bright Tin	1-66106-5	1-66108-5	1-66107-1	1-66109-7		
			Gold/Nickel ²	66106-7	66108-7	66107-3	66109-3		
			Sel. Gold/Nickel ³	66106-8	66108-8	66107-4	66109-4		
24-20	0.2-0.6	.040-.080 ¹ 1.02-2.03	Sel. Gold/Nickel ⁴	—	66108-1	—	66109-1	58495-1*	466908-2***
			Bright Tin	2-66102-5	3-66104-0	1-66103-8	1-66105-9		
			Gold/Nickel ²	66102-8	66104-8	66103-3	66105-3		
			Sel. Gold/Nickel ³	66102-9	66104-9	66103-4	66105-4		
			Sel. Gold/Nickel ³	2-66102-2	2-66104-3	1-66103-2	1-66105-3		
			Sel. Gold/Nickel ⁴	—	66104-1	—	66105-1		
			Bright Tin	1-66564-2	1-66563-1	66566-7	66565-7		
			Sel. Gold/Nickel ³	66564-8	66563-8	66566-4	66565-4		
18-16	0.8-1.4	.080-.100 ¹ 2.03-2.54	Bright Tin	1-66332-4	1-66331-4	1-66400-0	1-66399-0	91523-1 ⁶	466324-□*** or 466942-1***
			Gold/Nickel ²	66332-7	66331-7	66400-3	66399-3		
			Sel. Gold/Nickel ³	66332-8	66331-8	66400-4	66399-4		
			Sel. Gold/Nickel ⁴	—	66331-2	—	66399-2		
18-14	0.8-2.0	.080-.100 ¹ 2.03-2.54	Bright Tin	1-66098-9 ⁵	1-66100-9	1-66099-5	1-66101-9	91505-1 ⁶ or 91523-1 ⁶ or 58495-1*	466325-□*** or 466906-1***
			Gold/Nickel ²	66098-8	66100-8	66099-3	66101-3		
			Sel. Gold/Nickel ³	66098-9	66100-9	66099-4	66101-4		
			Sel. Gold/Nickel ⁴	66098-6	—	66099-1	—		
18-14	0.8-2.0	.110-.150 ⁵ 2.79-3.81	Bright Tin	1-66359-4	1-66358-6	1-66361-2	1-66360-2	91519-1 ⁶	466326-□*** or 466923-2***
			Gold/Nickel ²	66359-5	66358-8	66361-7	66360-7		
			Sel. Gold/Nickel ³	66359-9	66358-0	66361-4	66360-4		
			Sel. Gold/Nickel ⁴	1-66359-2	1-66358-3	66361-8	66360-8		
18-14	0.8-2.0	.110-.150 ⁵ 2.79-3.81	Sel. Gold/Nickel ⁴	—	66358-1	—	66360-1	91521-1 ⁶	466958-1*** or 567364-□***
			Bright Tin	66597-8	1-66598-0	66602-8	66601-9		
			Sel. Gold/Nickel ³	66597-2	66598-2	66602-2	66601-2		

¹Overall insulation crimp diameter, including crimp barrel, must not exceed .125 [3.18].
².000015 [0.00038] gold in the mating area over .000050 [0.00127] min. nickel.
³.000030 [0.00076] gold in the mating area, with gold flash on remainder, over .000050 [0.00127] min. nickel.
⁴.000030 [0.00076] gold in the mating area, with gold gradient on remainder, over .000050 [0.00127] min. nickel.

⁵Contacts can ONLY be used in: **Metrimate; CPC Series 1 (Arr. 23-24), Series 4 (Arr. 23-13M, 23-16M, 23-22M), and VDE connectors.**
⁶To use with the 626 Pneumatic Tool: remove crimping head from Straight Action Hand Tool (SAHT), order SAHT Adapter Part No. 217201-1, Adapter Holder Part No. 356304-1 (with ratchet) or 189928-1 (without), and Power Unit Part No. 189721-1 (hand actuated) or 189722-1 (foot actuated).

⁶Standard reeling of strip form contacts.
^{*}Commercial PRO-CRIMPER II hand tool for field repair only. **Note:** Die Set can be adapted for use with 626 Pneumatic Tool System. **Insertion Tool Part No. 91002-1** (for insulation diameters .070 [1.78] or less), **No. 200893-2** (for insulation diameters .090 [2.29] max.). **Extraction Tool Part No. 305183.** (Instruction Sheet 408-1216)
^{***}Call Technical Support for Machine Applicator Part Numbers.

Note: All part numbers are RoHS Compliant.

CPC Series 1

Signal Contacts (Continued)

Enhanced High Current Type III+, Crimp, Snap-In



Material and Finish — See chart.
Contact Body—Copper Nickel Alloy
Retention Spring—Stainless steel

Related Product Data
Application Tooling — Pages 76-79
Technical Documents
 114-10004 Application Specification
 108-10024-2 Product Specification

Contact Size 16—Pin Diameter .062 [1.57]

Wire Size Range		Ins. Dia. Range	Contact Finish	Strip Form Contact No.		Loose Piece Contact No.		Tooling Part No.	
AWG	mm ²			Pin	Socket	Pin	Socket	Loose Piece Hand Tool	Strip Form Applicators
18-14	0.8-2.0	.080-.100 ¹ 2.03-2.54	Gold	1-66359-6	1-66358-9	1-66361-4	1-66360-4	91519-1 ³	466326-□*** or
			Tin	1-66359-9	2-66358-1	1-66361-6	1-66360-6		466923-2***
		.110-.150 ² 2.79-3.81	Gold	1-66597-0	1-66598-1	66602-9	1-66601-0	91521-1 ³	466958-1*** or
			Tin	1-66597-1	1-66598-2	1-66602-0	1-66601-2		567364-□***

¹ Overall insulation crimp diameter, including crimp barrel, must not exceed .125 [3.18].
² Contacts can ONLY be used in CPC, Series 1 (Arr. 23-24), Series 4 (Arr. 23-13M, 23-16M, 23-22M), and VDE connectors.
³ To use with the 626 Pneumatic Tool System: remove the crimping head from the Straight Action Hand Tool (SAHT) Assembly, order SAHT Adapter **Part No. 217201-1**, Adapter Holder **Part No. 356304-1** (with ratchet) or **189928-1** (without), and Power Unit **Part No. 189721-1** (hand actuated) or **189722-1** (foot actuated).
 *** Call Technical Support for Automatic Machine Applicator Part Numbers.

Ratings

Voltage: 250 Volts AC/DC
 600 Volts AC/DC, Series I, VDE tested and select loaded only

Base Current: Type III+ contacts: 17 amperes, 30°C temperature rise with single contact on 14 AWG wire
Enhanced High Current Type III+ contacts: 25 amperes, 30°C temperature rise with single contact on 14 AWG wire

Temperature: -55°C to +105°C

VDE 0627: XA/630/4KV/2 - Series I, VDE tested only

Multiplication Rating Factor (F)

Type III+ Contacts (Note: 1 = 17 amperes)

Shell Size	Percent Connector Loading					
	Single Circuit		≅ 50%		100%	
	Wire Size		Wire Size		Wire Size	
	30 AWG	14 AWG	30 AWG	14 AWG	30 AWG	14 AWG
11-4	.291	1	.212	.905	.140	.684
13-9	.278	.995	.175	.750	.134	.567
17-16	.270	.990	.146	.625	.127	.472
23-24	.281	.985	.138	.550	.120	.416
23-37	.275	.985	.131	.497	.114	.376

Enhanced High Current Type III+ Contacts (14 AWG wire only - Note: 1 = 25 amperes)

Shell Size	Percent Connector Loading		
	Single Circuit	≅ 50%	100%
	14 AWG	14 AWG	14 AWG
11-4	.880	.840	.640
13-9	.880	.640	.480
17-16	.880	.520	.400
23-24	.880	.520	.400
23-37	.880	.440	.320

Note: All part numbers are RoHS Compliant.

Signal Contacts (Continued)

Type III+ (Precision Formed, Crimp)

Contact Size—16
Pin Diameter—.062 [1.57]

Material and Finish

Contact Body—Copper alloy, plated tin or gold

Spring—Stainless steel

Grounding Pin
(make first - break last)

Related Product Data

Performance Characteristics—Page 6

Application Tooling—Pages 76-79

Technical Documents—Page 80



Wire Size Range		Ins. Dia. Range ¹	Contact Finish	Grounding Pin Part No.		Strip Form Applicator Part No.	Loose Piece Hand Tool Part No.
mm ²	AWG			Strip Form	Loose Piece		
0.12-0.2	26-24	.035-.055 0.89-1.4	Tin	164159-3	164162-1	—	91515-1 ⁵ or 58495-1*
			Sel. Gold/Nickel ⁴	164159-4	164162-2		
0.2-0.6	24-20	.045-.070 1.14-1.78	Bright Tin	164160-3	164163-1	466323-□*** or	91515-1 ⁵ or 91505-1 ⁵ or 58495-1*
			Sel. Gold/Nickel ⁴	164160-4	164163-2	466907-2***	
0.8-1.4	18-16	.078-.098 1.98-2.49	Tin	164161-3	164164-1	466741-□*** or	91523-1 ⁵ or 91505-1 ⁵ or 58495-1*
			Sel. Gold/Nickel ⁴	164161-4	164164-2	680114-3***	

¹Overall insulation crimp diameter, including crimp barrel, must not exceed .125 [3.18].

⁴Gold flash over .000030 [0.00076] min. nickel on entire contact, with .000030 [0.00076] gold in contact area.

⁵To use with the 626 Pneumatic Tool System: remove the crimping head from the Straight Action Hand Tool (SAHT) Assembly, order SAHT Adapter **Part No. 217201-1**, Adapter Holder **Part No. 356304-1** (with ratchet) or **189928-1** (without), and Power Unit **Part No. 189721-1** (hand actuated) or **189722-1** (foot actuated).

*Commercial PRO-CRIMPER II hand tool for field repair only. **Note:** Die Set can be adapted for use with the 626 Pneumatic Tool System.

***Call Technical Support for Automatic Machine Applicator Part Numbers.

Extraction Tool Part No. 539972-1.

High Current Power Contact—Size 16

The features of the High Current Size 16 contact have been designed to retrofit into the existing AMP Connectors such as CPC (Circular Plastic Connector), CMC (Circular Metal Connector), G Series, M Series, Metrimate Square Grid and Drawer Connector housings. An initial T-Rise test in free air has shown a 23 amp capability with a 30° T-Rise. The contact may be crimped onto 14 AWG wire with an AMP hand tool **Part No. 601967-1**. Use turret TH502 **(1-601967-6)** for the pin and turret TH501 **(1-601967-5)** for the socket.

Material

Body—Copper alloy
Louvertac Band—Beryllium copper
Retention Spring—Stainless steel

Finish

Body—Silver
Louvertac Band—Gold



Wire Range		Contact Part Nos.				Crimping Tool		
		Pin		Socket		Tool	Turret	
mm ²	AWG	Loose Piece	Tape Mounted	Loose Piece	Tape Mounted		for Pins	for Sockets
0.8-1.4	18-16	796964-1	796964-2	796966-1	796966-2	601967-1	1-601967-5	1-601967-5
2	14	193844-1	193844-2	193846-1	193846-2	601967-1	1-601967-6	1-601967-5

Extraction Tool Part No. 305183

Signal Contacts (Continued)

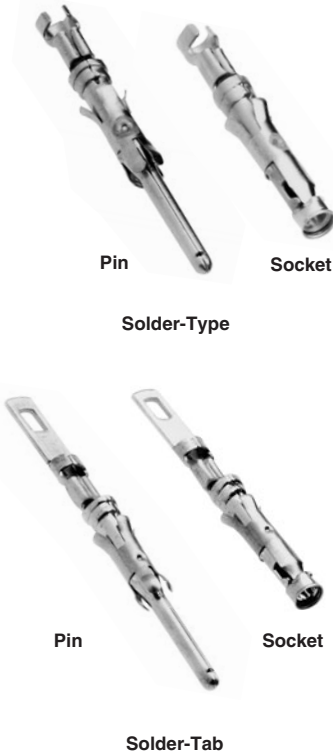
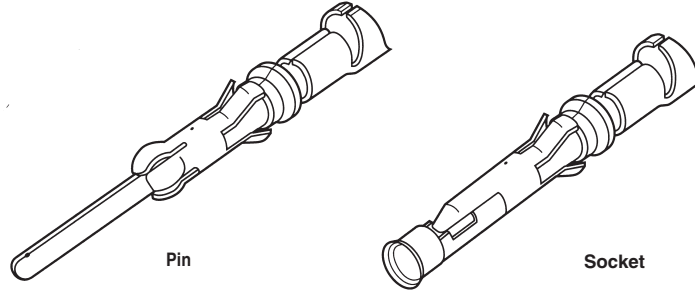
Type III+ (Precision Formed, Solder)

Contact Size—16
Pin Diameter—.062 [1.57]

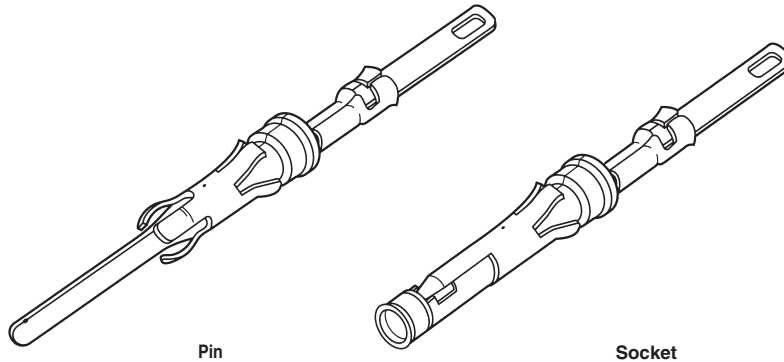
Material and Finish
Contact Body—Copper alloy, plated tin or gold
Spring—Stainless steel

Related Product Data
Performance Characteristics—Page 6
Technical Documents—Page 80

Solder-Type
 (with Preformed Wire Barrel/Insulation Support)



Solder-Tab



Contact Size 16—Pin Diameter .062 [1.57] (Test Current, 13 Ampere)‡

Wire Size Range		Contact Finish	Loose Piece Contact No.	
AWG	mm ²		Pin	Socket
26-20	0.12-0.6	Gold/Nickel ¹	66182-1	66183-1
18-16	0.8-1.4	Gold/Nickel ¹	66180-1	66181-1
Solder Tab ⁴		Duplex ²	202236-7	202237-7
		Bright Tin	202236-5	202237-5

¹.000030 [0.00076] gold in mating area over .000030 [0.00076] min. nickel.
²Duplex plated .000030 [0.00076] gold in mating area over .000030 [0.00076] min. nickel on contact body; bright tin on solder tab.
³Bright tin on entire contact.
⁴Designed for up to 14 AWG; but, not to exceed current limitation of contact.
Note: These contacts can be used in Multimatch contact cavities of all connector housings.
 ‡Single contact, free-air test current is not to be construed as contact rating current. Use only for testing.
 Refer to contact current carrying capability information on page 8.
Extraction Tool Part No. 305183

Note: All part numbers are RoHS Compliant.

Signal Contacts (Continued)

Type II, Screw Machined, Crimp

Material

Contact Body—Brass

Retention Spring—Stainless steel

Finish

Contact Body—.000030 [0.00076] gold over .000050 [0.00127] nickel. Gold thickness controlled on socket O.D.

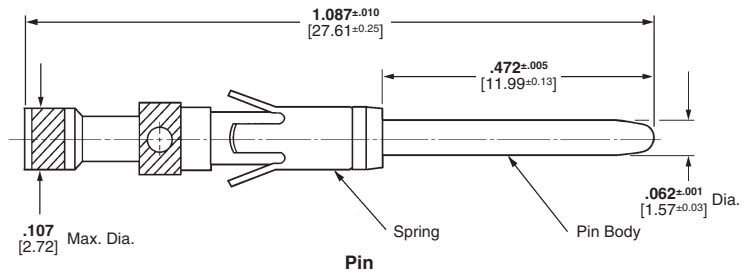
Retention Spring—Stainless steel

Related Product Data

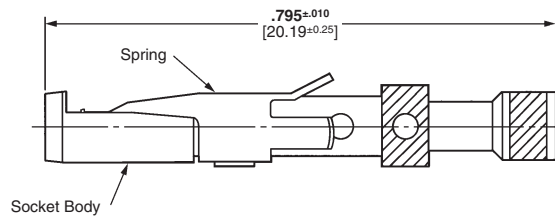
Application Tooling—Pages 76-79



Pin



Socket



Socket

Contact Size 16—Pin Diameter .062 [1.57] (Test Current, 13 Ampere)†

Wire Size Range		Ins. Dia. Range ¹	Tape Mounted Contact No. ²		Loose Piece Contact No.		Contact Color Code	Tooling Part No.		
			Pin	Socket	Pin	Socket		Tape Mounted Dies for AMP-TAPETRONIC Machine 69875	Loose Piece Die Set for 626 Pneumatic Tool System	Hand Tool
28-24	0.08-0.20	.035-.055 0.89-1.40	201611-4	—	201611-1 ⁴	201613-1 ⁵	Red/Red	—	90230-1 ⁷	91538-1 or 601967-1
		.048-.065 1.22-1.65	—	—	201334-1 ⁴	201332-1 ⁵	Red/Red	90249-2	—	—
		.095-.110 2.41-2.79	—	—	202410-1 ⁴	202411-1 ⁵	Green	—	—	601967-1
24-20	0.2-0.6	.040-.062 1.02-1.57	201578-4	—	201578-1 ⁴	201580-1 ⁵	Yellow/Red	—	90230-1 ⁷	91538-1 or 58541-1* [†]
		.055-.088 1.40-2.16	201330-6	201328-9	201330-1 ⁴	201328-1 ⁵	Yellow/Red	90249-2	90230-1 ⁷	or 601967-1
18 (Two)	0.9-0.9 (Two)	No. Ins. Support	—	—	202725-1 ⁴	202726-1 ⁴	Blue	—	90231-2 ⁷	91539-1 or 601967-1
18-16	0.8-1.4	.080-.105 2.03-2.67	—	—	202507-1 ⁴	202508-1 ⁵	—	—	—	90136-1 or 601967-1
		No Ins. Support	200336-6	200333-8	200336-1 ⁴	200333-1 ⁴	Blue/Blue	90250-1	90231-2 ⁷	91539-1 58541-1* [†] or 601967-1
14	2	No Ins. Support	212618-2 ³	201568-3	201570-1 ⁴	201568-1 ⁵	Violet/Blue	90250-1	90231-2 ⁷	91539-1 58541-1* [†] or 601967-1
			201570-2	—	212618-1 ^{3,6,†}	—	—	—	—	—

¹Overall insulation crimp diameter, including crimp barrel, must not exceed .125 [3.18].

²For AMP-TAPETRONIC Machine No. 69875, order contacts by Tape Mounted Contact No., plus packaging code "IM REEL" (5000 parts per reel).

³Grounding pin is used to provide a make-first/break-last condition when mating and unmating connector halves.

⁴Use turret TH502 (1-601967-6) with hand tool 601967-1.

⁵Use turret TH501 (1-601967-5) with hand tool 601967-1.

⁶Pin length is .630±.005 [16.002±.127] on these two pins.

⁷Die Set requires "C" Head Adapter Part No. 318161-1; Adapter Holder Part No. 356304-1 (with ratchet) or 189928-1 (without); and Power Unit Part No. 189721-2 (hand actuated) or 189722-2 (foot actuated).

*Commercial PRO-CRIMPER II Hand Tool for field repair use only. **Note:** Die Set can be adapted for use with the 626 Pneumatic Tool System.

†Does not use Hand Tool 91539-1 or 601967-1.

‡Single contact, free-air test current is not to be construed as contact rating current. Use only for testing. Refer to contact current carrying capability information on page 8.

Insertion Tool Part No. 200893-2 (for insulation diameters .070 [1.78] or less).

Extraction Tool Part No. 305183.