Wire-to-Board Connectors

Except for DUO-TYNE flag connectors, which are exclusively for wire-to-board application, the connectors presented in this section are primarily wire-to-board connectors, but do have some board-to-board capabilities. These connectors are available in a wide range of styles to suit almost any wire-to-board application. This versatile connector family features snap-in contacts of various configurations including crimp, post, eyelet and solder types.

Wire-to-board crimp, snap-in contacts are easily inserted into the connector housing and are furnished in reel-fed strip form for automatic machine application and loose piece for hand tool termination. The Wire-to-Board Printed Circuit Board Connector family includes:

Crimp Snap Twin Leaf Connectors
(Pages 154-163)
These connectors are designed for high density wire-to-board applications and feature bifurcated, crimp and solder eyelet contacts on .100 [2.54] and .125 [3.18] centers. Design flexibility allows the customer to save by purchasing only enough contacts for his circuit design requirements. Contact styles include crimp, solder eyelet and vertical and right-angle posts, in a variety of sizes.

AMP-LEAF Connectors
(Pages 164-172)
These connectors are for single- or double-sided printed circuit boards. Snap-in contacts lock in place on .156 [3.96] centers, maintaining constant pressure on circuit paths. Contact options are available for precision crimped terminations and solder dip applications.

High Current Connectors
(Pages 173-176)
Designed for a current capability of up to 30 amperes, these connectors are an economical answer to the costly problem of interconnecting high current printed circuitry. Styles are available for wire-to-board and board-to-board applications. Contacts are on .312 [7.92] centers.

DUO-TYNE Flag Connectors
(Pages 177-180)
These economical connectors are designed to meet the quality and reliability requirements of industries such as appliance controls, vending machine subassemblies, television, stereo, business machines and other areas with similar control needs. The right-angle design of the connector permits close-quarter cabling. Contacts are doubly locked in when a PC board is inserted.

Catalog 1654080
Issued 7-03

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Wire-to-Board Connector Selection Guide

	Crimp Snap Twin Leaf Connectors (Pages 154-163)	AMP-LEAF Connectors (Pages 164-172)
Centerlines		
.100 [2.54]	x	
.125 [3.18]	x	
.156 [3.96]	x	x
.197 [5.00]		
.260 [6.60]		
.312 [7.92]		
Styles		
Crimp	x	x
Right-Angle Post	x	x
Wrap-Type Post	x	x
Solder Eyelet	x	x
Solder Tail	x	x
Double Sided	x	x
Single Sided	x	x

	High Current Connectors (Pages 173-176)	DUO-TYNE Flag Connectors (Pages 177-180)
Centerlines		
.100 [2.54]		
.125 [3.18]		
.156 [3.96]		x
.197 [5.00]		
.260 [6.60]		
.312 [7.92]	x	
Styles		
Crimp	x	x
Right-Angle Post		
Wrap-Type Post		
Solder Eyelet		
Solder Tail	x	
Double Sided	x	x*
Single Sided		

*Double-sided board; single readout.

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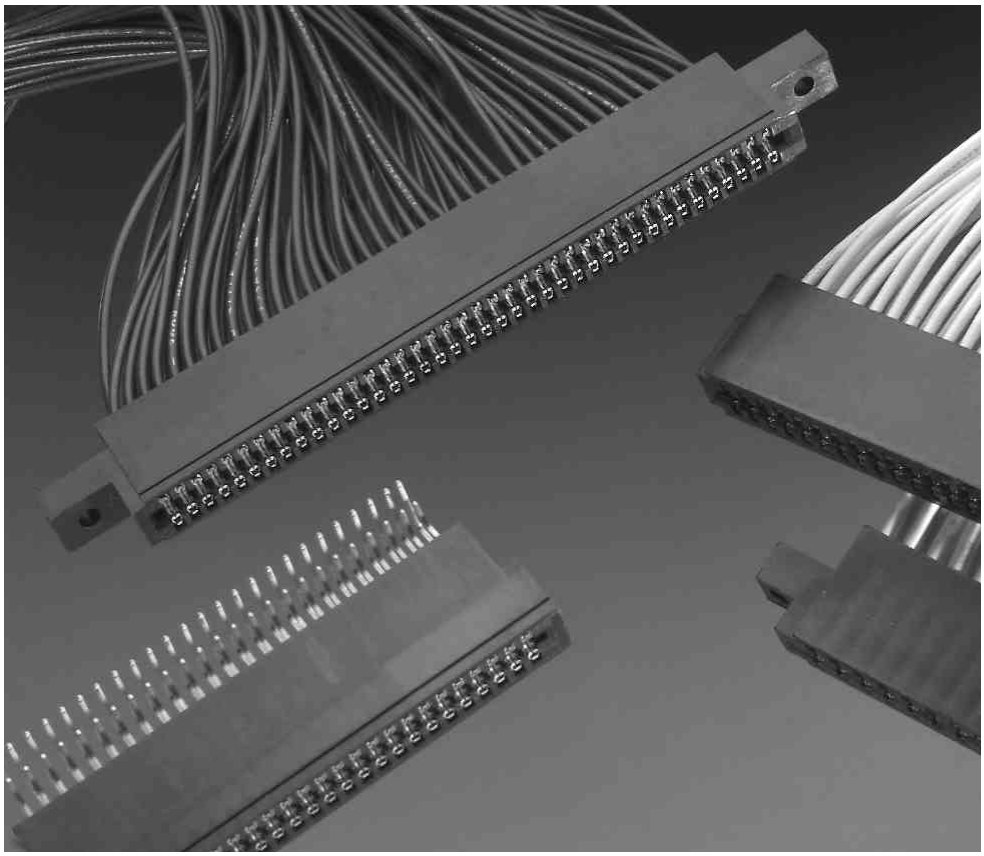
USA: 1-800-522-6752
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Hong Kong: 852-2735-1628
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UK: 44-141-810-8967

Crimp Snap Twin Leaf Connectors

Product Facts

- **Crimp snap-in, solder eyelet, .025 [0.64] square posted and right angle contacts on .100 [2.54], .125 [3.18] or .156 [3.96] centers**
- **Customer buys only enough contacts to meet circuit and retention requirements**
- **Contacts bifurcated for redundancy**
- **Single leaf version available for higher contact normal forces**
- **Low insertion forces**
- **Accommodates AWG 16-28 [1.4-0.08 mm²] wire range and insulation diameters .035-.105 [0.89-2.67]**
- **Large variety of connector sizes**
- **Cavity identification on face of card slot and wire entry**
- **High speed automatic machine terminations provide uniform reliability at lowest applied cost**
- **Recognized under the Component Program of Underwriters Laboratories Inc. File No. E28476**
- **Certified by Canadian Standards Association File No. LR 7189**



The Crimp Snap Twin Leaf Connector is designed especially for high density wire-to-board applications. Termination styles include crimp, solder, posted and right angle, in a variety of sizes.

Design flexibility allows the customer to save by purchasing only enough contacts for the circuit requirements. Easy replaceability of each contact cuts repair cost in the event of contact or wire damage.

Performance Specifications

Contact Rating*: 5 amperes, continuous 3 amperes, max. (for .025 [0.64] posted contacts)

Contact Resistance:
10 milliohms, max.

Insulation Resistance:
5000 megohms (initial)
1000 megohms

Voltage Rating:
.100 [2.54] Centerline-1000 Vrms
.125 [3.18] Centerline-1500 Vrms
.156 [3.96] Centerline-1800 Vrms

Insertion Force (per pair): Twin Leaf-10 oz. [2.78 N], max.; 7.6 oz. [2.11 N], avg. Non-Bifurcated Contacts-20 oz. [5.57 N], max.

Extraction Force (per pair): Twin Leaf-0.7 oz. [0.195 N], min.; 1.2 oz. [0.334 N], avg.

Operating Temperature:
-55°C to +105°C

***Consult Tyco Electronics engineering when paralleling contacts for power applications.**

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Crimp Snap Twin Leaf Connectors (Continued)

Crimp, Snap-In Contacts

Material and Finish:

Phosphor bronze, plated .000030 [0.00076] nickel on entire contact, with the addition of one of the following platings:
Plating A—.000030 [0.00076] gold in mating area
Plating B—.000015 [0.00038] gold in mating area
Plating C—.000050 [0.00127] gold in mating area, with gold flash on remainder of contact
Plating D—.000015 [0.00038] gold in mating area, with gold flash on remainder of contact
Note: Tin plating is available upon request.

Related Product Data:

Performance Specifications—page 154
Application Tooling—pages 184,185
Connector Housings—pages 157, 159, 161

Technical Documents:

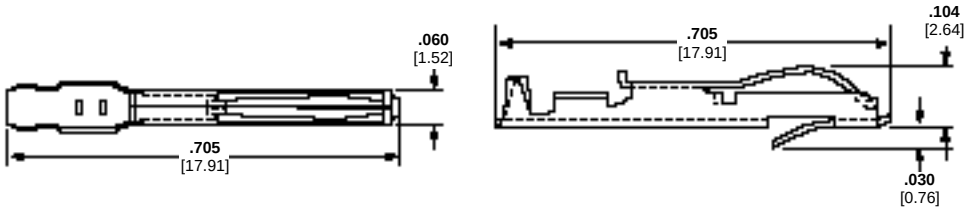
(pages 186, 187):

Product Specification
108-9031

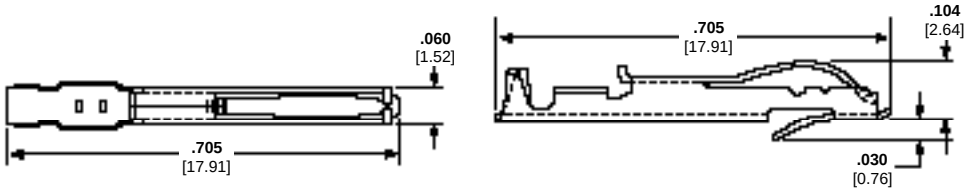
Application Specification
114-9004

Instruction Sheets
408-7527, 408-7529, 408-7531, 408-7551, 408-7556, 408-7583

Note: Only loose piece contacts manufactured and supplied by Tyco Electronics are to be used with the hand tools listed on this page. No attempt should be made to produce loose piece parts from a strip since special cutoff tooling is required to assure a properly functioning part.



Connector Centerline	Wire Size Range AWG/mm²	Insulation Dia. Range	Contact Finish (Plating)	Contact Part Numbers: Loose Piece	Contact Part Numbers: Strip Form	Applicator for AMP-O-LECTRIC Machine*	Applicator for Stripper/Crimper Machine	Color Code	Hand Tool
.100 2.54	**28-24** 0.08-0.2	**.035-.055** 0.89-1.40	A	583616-4	583616-2	466577-4	466912-1	Orange	90268-1
			B	583616-5	583616-3				
			C	583616-9	583616-8				
			D	1-583616-1	1-583616-0				
	24-20 0.2-0.6	**.048-.060** 1.22-1.52	A	583853-5	583853-3	466622-2	466919-1	Green	91535-1
			B	583853-4	583853-2				
			C	583853-9	583853-8				
			D	1-583853-1	1-583853-0				
.125 3.18	**28-24** 0.08-0.2	**.035-.055** 0.89-1.40	A	583616-4	583616-2	466577-4	466912-1	Orange	90268-1
			B	583616-5	583616-3				
			C	583616-9	583616-8				
			D	1-583853-1	1-583853-0				
	24-20 0.2-0.6	**.048-.060** 1.22-1.52	A	583853-5	583853-3	466622-2	466919-1	Green	91535-1
			B	583853-4	583853-2				
			C	583853-9	583853-8				
			D	1-583853-1	1-583853-0				
	22-18 0.3-0.9	**.049-.095** 1.24-2.41	A	583649-6	583649-3	466713-2	466928-1	Violet	90264-1
			B	583649-5	583649-2				
			C	583649-7	583649-4				
	20-16 0.6-1.4	**.073-.090** 1.85-2.29	A	583875-6	583875-5	687775-2	—	White	90285-1
			C	583875-3	583875-2				
.156 3.96	**28-24** 0.08-0.2	**.035-.055** 0.89-1.40	A	583616-4	583616-2	466577-4	466912-1	Orange	90268-1
			B	583616-5	583616-3				
			C	583616-9	583616-8				
			D	1-583616-1	1-583616-0				
	24-20 0.2-0.6	**.048-.060** 1.22-1.52	A	583853-5	583853-3	466622-2	466919-1	Green	91535-1
			B	583853-4	583853-2				
			C	583853-9	583853-8				
			D	1-583853-1	1-583853-0				
	22-18 0.3-0.9	**.049-.095** 1.24-2.41	A	583649-6	583649-3	466713-2	466928-1	Violet	90264-1
			B	583649-5	583649-2				
			C	583649-7	583649-4				
	20-16 0.6-1.4	**.073-.090** 1.85-2.29	A	583875-6	583875-5	687775-2	—	White	90285-1
			C	583875-3	583875-2				
		.085-.105 2.16-2.67	B	583875-3	—	—	—		



Crimp, Snap-In Contacts, Non-Bifurcated

Material and Finish:

Phosphor bronze, plated .000030 [0.00076] nickel on entire contact, with the addition of one of the following platings:
Plating A—.000030 [0.00076] gold in mating area
Plating B—.000015 [0.00038] gold in mating area
Note: Tin plating is available upon request.

Related Product Data:

(See above)

Connector Centerline	Wire Size Range AWG/mm²	Insulation Dia. Range	Contact Finish (Plating)	Contact Part Numbers: Loose Piece	Contact Part Numbers: Strip Form	Applicator for AMP-O-LECTRIC Machine*	Applicator for Stripper/Crimper Machine	Color Code	Hand Tool
.100 2.54	**28-24** 0.08-0.2	**.035-.055** 0.89-1.40	A	531476-5	531476-4	466577-4	466912-1	Orange	90268-1
	24-20 0.2-0.6	**.048-.060** 1.22-1.52	A	531477-5	531477-4	466622-2	466919-1	Green	91535-1
			B	531477-4	531477-2				
.125 3.18	**28-24** 0.08-0.2	**.035-.055** 0.89-1.40	A	531476-5	531476-4	466577-4	466912-1	Orange	90268-1
	24-20 0.2-0.6	**.048-060** 1.22-1.52	A	531477-5	531477-4	466622-2	466919-1	Green	91535-1
			B	531477-3	531477-2				
	22-18 0.3-0.9	**.045-.095** 1.14-2.41	A	—	531478-4	466713-2	466928-1	Violet	90264-1
.156 3.96	**28-24** 0.08-0.2	**.035-.055** 0.89-1.40	A	531476-5	531476-4	466577-4	466912-1	Orange	90268-1
			B	531477-5	—				
	24-20 0.2-0.6	**.048-.060** 1.22-1.52	A	531477-5	531477-4	466622-2	466919-1	Green	91535-1
			B	531477-3	531477-2				
	22-18 0.3-0.9	**.045-.095** 1.14-2.41	A	—	531478-4	466713-2	466928-1	Violet	—

*Applicators are for AMP-O-LECTRIC Model "K" machines. Consult Tyco Electronics for applicators for other bench machines and lead-making machines.

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Crimp Snap Twin Leaf Connectors (Continued)

Snap-In Solder Eyelet Contacts

Material and Finish:

Phosphor bronze, plated .000030 [0.00076] nickel on entire contact, with the addition of one of the following platings:
Plating A—.000030 [0.00076] gold in mating area
Plating B—.000015 [0.00038] gold in mating area
Solder eyelet portion is tin plated.
Note: Tin plating of entire contact is available upon request.

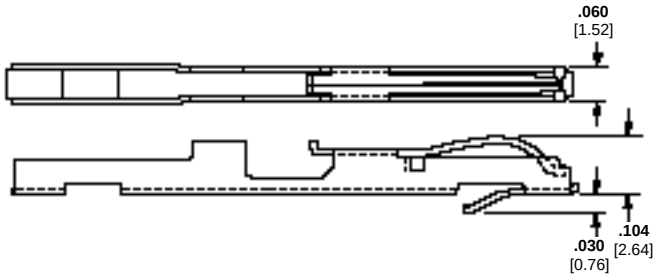
Related Product Data:

Performance Specifications—page 154
Connector Housings—pages 157, 159, 161

Technical Documents

(pages 186, 187):

Product Specification 108-9031
Application Specification 114-9004
Instruction Sheets 408-7527, 408-7529



Connector Centerline	Contact Finish (Plating)	Part Numbers
.100 2.54	A	583854-3
	B	583854-5
.125 3.18	A	530245-3

Snap-In Wrap Post Contacts

Material and Finish:

Contact—Phosphor bronze, plated .000015 [0.00038] gold in mating area, with entire contact underplated .000030 [0.00076] nickel
Post—Phosphor bronze, tin-plated
Note: Tin plated contacts are available upon request.

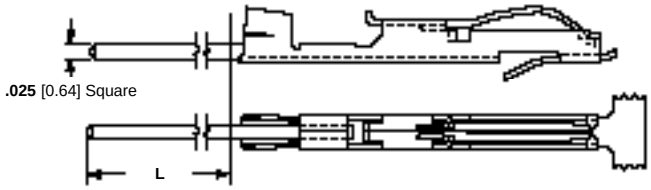
Related Product Data:

Performance Specifications—page 154
Connector Housings—pages 157, 159, 161

Technical Documents:

(pages 186, 187):

Product Specification 108-9031
Application Specification 114-9004
Instruction Sheets 408-7527, 408-7529



Connector Centerline Spacing	Dimension L	Part Numbers
.100 2.54	**.451** 11.46	583879-1
	.535 13.59	583879-4
.125 3.18	**.525** 13.34	583884-1
.156 3.96	**.525** 13.34	583884-1

Hand



Contact Extraction Tool



Catalog 1654080
Issued 7-03

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UK: 44-141-810-8967

Crimp Snap Twin Leaf Connectors, .100 [2.54] Centerline

Housings

Material: Black glass-filled polyester, 94V-0 rated

Related Product Data:

Performance Specifications—page 154
Contacts—pages 155, 156
Accessories—page 162*
PCB Edge Pattern—page 163

Technical Documents:

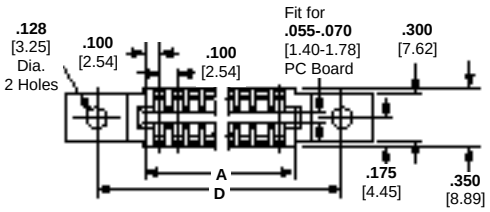
(pages 186, 187):

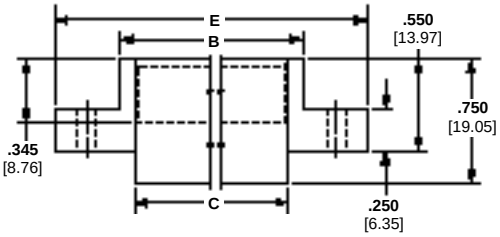
Product Specification
108-9031

Application Specification
114-9004

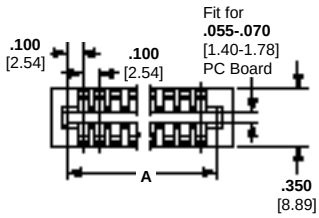
Instruction Sheet 408-7527

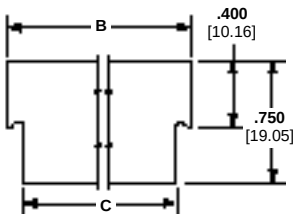
With Mounting Ears





Without Mounting Ears





No. of Dual Positions	Dimensions					Part Numbers	
	A	B	C	D	E	Without Mounting Ears	With Mounting Ears
6	**.700** 17.78	**.900** 22.86	**.720** 18.29	—	—	2-583717-1	—
				1.175 29.85	**1.430** 36.32	—	583861-5
7	**.800** 20.32	**1.000** 25.4	**.820** 20.83	—	—	2-583717-3	—
8	**.900** 22.86	**1.100** 27.94	**.920** 23.36	—	—	3-583717-9	—
10	**1.100** 27.94	**1.300** 33.02	**1.120** 28.49	**1.700** 43.18	**2.100** 53.34	583717-1	583718-1
				1.575 40.01	**1.830** 46.48	—	583861-7
13	**1.200** 30.48	**1.400** 35.56	**1.600** 40.64	—	—	3-583717-3	—
14	**1.500** 38.1	**1.700** 43.16	**1.520** 38.61	—	—	2-583717-7	—
15	**1.600** 40.64	**1.800** 45.72	**1.620** 41.15	**2.200** 55.88	**2.600** 66.04	583717-3	583718-3
				2.075 52.71	**2.330** 59.18	—	583861-9
17	**1.800** 45.72	**2.000** 50.8	**1.820** 46.30	**2.400** 60.96	**2.800** 71.12	583717-5	1-583861-1
18	**1.900** 48.26	**2.100** 53.34	**1.920** 48.76	—	—	583717-7	—
20	**2.100** 53.34	**2.300** 58.42	**2.120** 53.84	—	—	3-583717-1	—
22	**2.300** 58.42	**2.500** 63.50	**2.320** 58.93	**2.900** 73.66	**3.300** 83.82	583717-9	583718-9
25	**2.600** 66.04	**2.800** 71.12	**2.620** 66.55	**3.200** 81.28	**3.600** 91.44	1-583717-1	1-583718-1
30	**3.100** 78.74	**3.300** 83.82	**3.120** 79.25	**3.700** 93.98	**4.100** 104.14	1-583717-3	1-583718-3
				3.575 90.81	**3.830** 97.28	—	583861-1
32	**3.300** 83.82	**3.500** 88.90	**3.320** 84.33	**3.900** 99.06	**4.300** 190.22	—	2-583718-7
36	**3.700** 93.98	**3.900** 93.06	**3.720** 94.49	**4.175** 106.04	**4.430** 112.52	—	2-583861-5
40	**4.100** 104.14	**4.300** 109.22	**4 .120** 104.65	**4.700** 119.38	**5.100** 129.54	—	1-583718-5
				4.575 116.21	**4.830** 122.68	—	583861-3
50	**5.100** 129.54	**5.300** 134.62	**5.120** 130.05	**5.700** 144.78	**6.100** 154.94	1-583717-9	1-583718-7
				5.575 141.61	**5.830** 148.08	—	2-583861-1

Note: Other connector sizes can be made available, consult Tyco Electronics.

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Crimp Snap Twin Leaf Connectors, .100 [2.54] Centerline (Continued)

Housings Preloaded with Right-Angle Posts

Material and Finish:

Housing—Black glass-filled polyester, 94V-0 rated

Contacts—Phosphor bronze, plated .000015 [0.00038] gold in mating area, with entire contact underplated .000030 [0.00076] nickel

Posts—Phosphor bronze, tin plated

Related Product Data:

Performance Specifications—page 154

Asccessories—page 162*

PCB Edge Pattern and Hole Layout—page 163

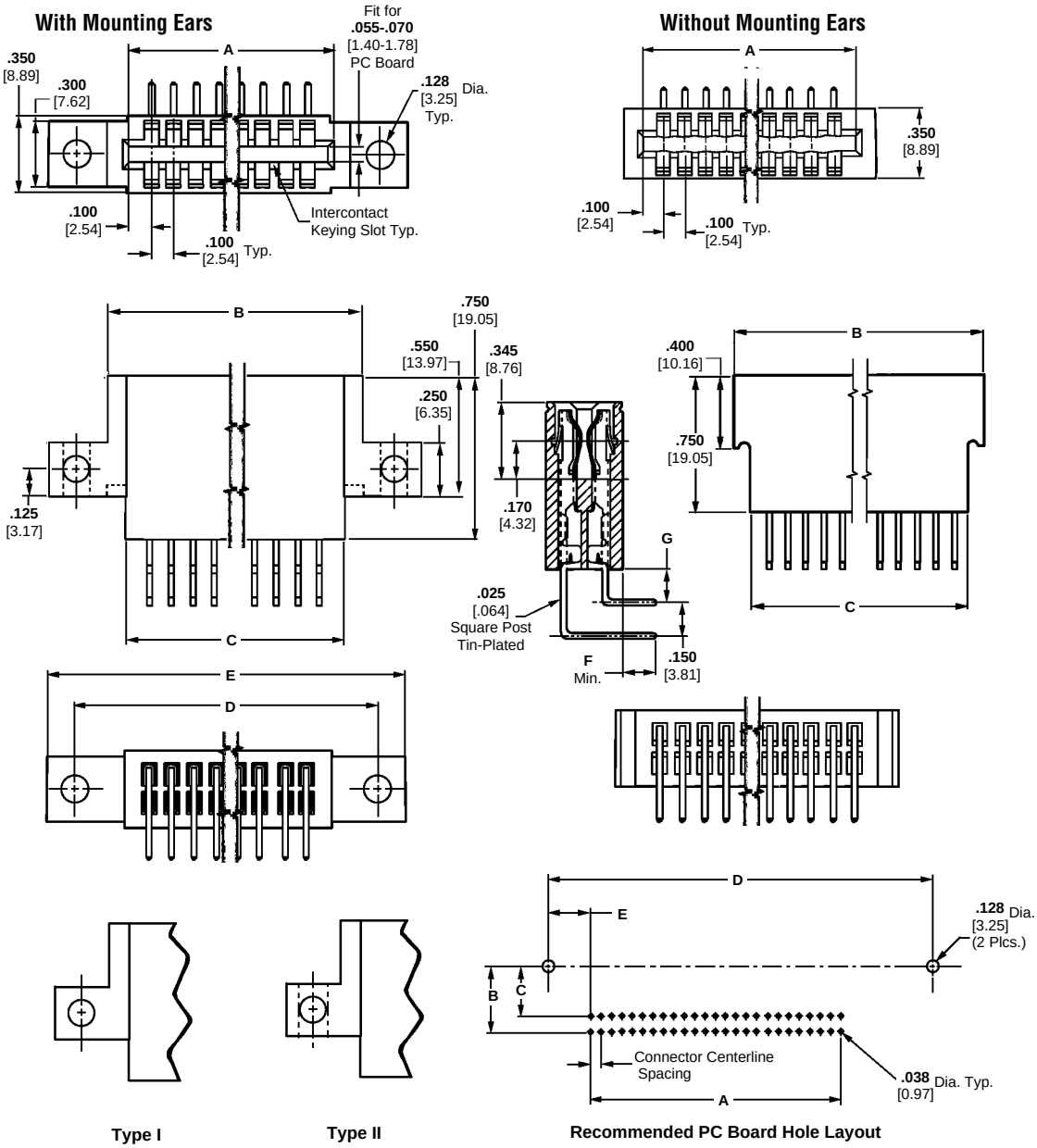
Technical Documents:

(pages 186, 187):

Product Specification 108-9031

Application Specification 114-9004

Instruction Sheet 408-7527



No. of Dual Pos.	Dimensions							Posted Assembly Part Numbers		
	A	B	C	D	E	F	G	Right-Angle Post With Mounting Ears Type I	Right-Angle Post With Mounting Ears Type II	Right-Angle Post Without Mounting Ears
10	**1.100** 27.94	**1.300** 33.02	**1.120** 28.49	**1.575** 40.01	**1.830** 46.48	—	—	—	583900-5	—
17	**1.800** 45.72	**2.000** 50.80	**1.820** 46.23	—	—	**.090** 2.29	**.150** 3.81	—	—	530218-5
22	**2.300** 58.42	**2.500** 63.50	**2.320** 58.93	**2.900** 73.66	**3.300** 83.82	**.090** 2.29	**.150** 3.81	—	1-583900-3	530218-9
25	**2.600** 66.04	**2.800** 71.12	**2.620** 66.55	**3.200** 81.28	**3.600** 91.44	**.090** 2.29	**.150** 3.81	583900-1	—	530218-1
28	**2.900** 73.66	**3.100** 78.74	**2.920** 74.16	**3.375** 85.72	**3.630** 92.20	**.090** 2.29	**.150** 3.81	—	583900-6	—
30	**3.100** 78.74	**3.200** 81.28	**3.120** 79.25	**3.700** 93.98	**4.100** 104.14	**.090** 2.29	**.150** 3.81	—	583900-4	530218-6
50	**5.100** 129.54	**5.300** 134.62	**5.120** 130.05	**5.575** 141.61	**5.830** 148.08	—	—	583900-3	—	—

Note: Other connector sizes can be made available, consult Tyco Electronics.

Catalog 1654080
Issued 7-03

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Japan: 81-44-844-8013
UK: 44-141-810-8967

Crimp Snap Twin Leaf Connectors, .125 [3.18] Centerline

Housings

Material: Black glass-filled polyester 94V-0 rated

Related Product Data:

Performance Specifications—page 154
Contacts—pages 155, 156
Accessories—page 162
PCB Edge Pattern—page 163

Technical Documents:

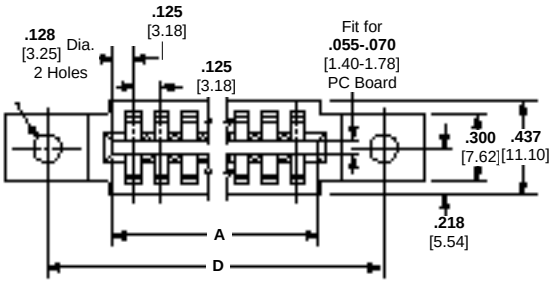
(pages 186, 187):

Product Specification 108-9031

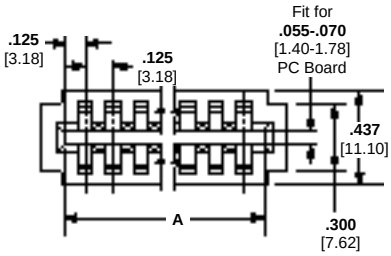
Application Specification 114-9004

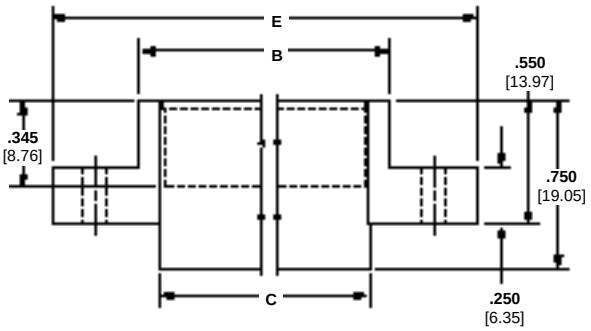
Instruction Sheet 408-7527

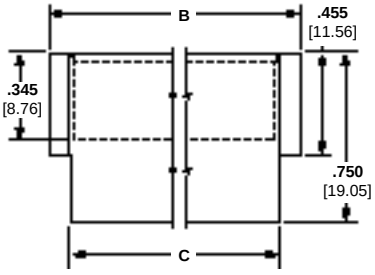
With Mounting Ears



Without Mounting Ears







No. of Dual Positions	Dimensions					Part Numbers	
	A	B	C	D	E	Without Mounting Ears	With Mounting Ears
6	**.875** 22.23	**1.035** 26.29	**.845** 21.46	**1.295** 32.89	**1.555** 39.50	583873-1	583864-1
10	**1.375** 34.93	**1.535** 38.99	**1.345** 34.16	**1.795** 45.59	**2.055** 52.20	—	583864-3
15	**2.000** 50.80	**2.160** 54.86	**1.970** 50.04	**2.420** 61.47	**2.680** 68.07	583873-5	—
22	**2.875** 73.03	**3.035** 77.09	**2.845** 72.26	**3.295** 83.69	**3.555** 90.30	583873-9	583864-9
25	**3.250** 82.55	**3.410** 86.61	**3.220** 81.79	**3.670** 93.22	**3.930** 99.82	—	—
28	**3.625** 92.08	**3.785** 96.14	**3.595** 91.31	**4.045** 102.74	**4.305** 109.35	—	1-583864-3
30	**3.875** 98.43	**4.035** 102.49	**3.845** 47.66	**4.295** 109.09	**4.555** 115.70	—	2-583864-1
40	**5.125** 130.17	**5.285** 134.23	**5.095** 129.41	**5.545** 140.84	**5.805** 147.44	—	1-583864-7
44	**5.625** 142.88	**5.785** 146.94	**5.595** 142.11	**6.045** 153.54	**6.305** 160.15	1-583873-9	—

Note: Other connector sizes can be made available, consult Tyco Electronics.

Catalog 1654080
Issued 7-03

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UK: 44-141-810-8967

Crimp Snap Twin Leaf Connectors, .125 [3.18] Centerline (Continued)

Housings Preloaded with Right-Angle Posts

Material and Finish:

Housing—Black glass-filled polyester, 94V-0 rated

Contacts—Phosphor bronze, plated .000030 [0.00076] gold in mating area, with entire contact underplated .000030 [0.00076] nickel

Posts—Phosphor bronze, tin-plated

Related Product Data:

Performance Specifications—page 154

Accessories—page 162

PCB Edge Pattern and Hole Layout—page 163

Technical Documents:

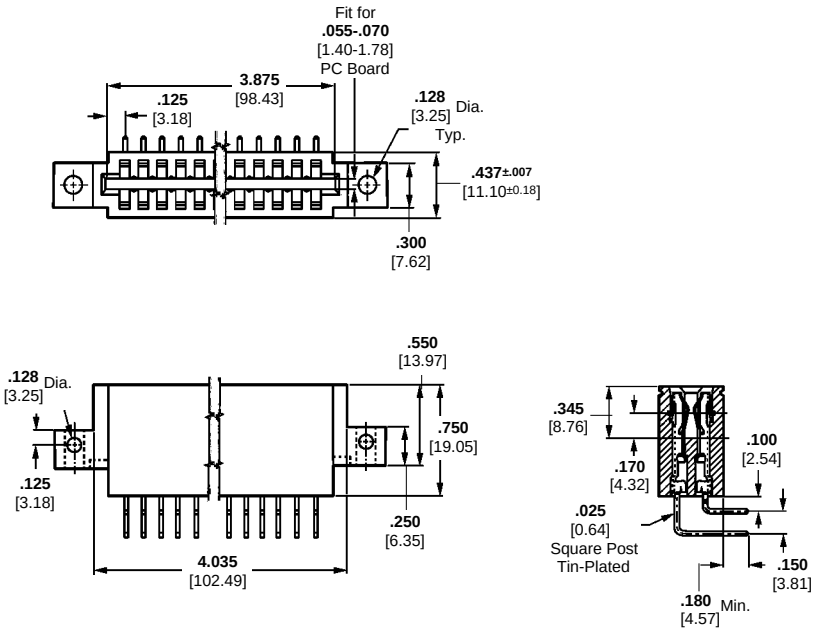
(pages 186, 187):

Product Specification 108-9031

Application Specification 114-9004

Instruction Sheet 408-7527

With Mounting Ears



30 Dual Positions,
Part No. 530238-8

Catalog 1654080
Issued 7-03

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UK: 44-141-810-8967

Crimp Snap Twin Leaf Connectors, .156 [3.96] Centerline

Housings

Material: Black glass-filled polyester, 94V-0 rated

Related Product Data:

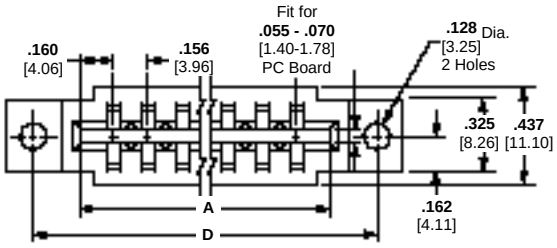
Performance Specifications—page 154
Contacts—pages 155, 156
Accessories—page 162
PCB Edge Pattern—page 163

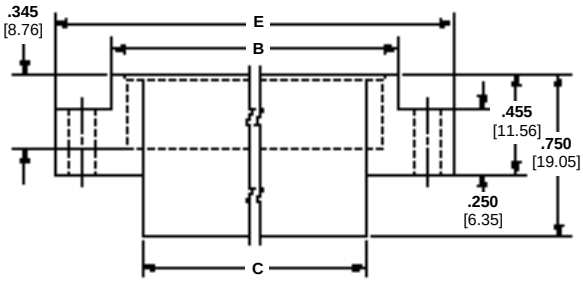
Technical Documents:

(pages 186, 187):

Product Specification 108-9031
Application Specification 114-9004
Instruction Sheet 408-7527

With Mounting Ears





No. of Dual Positions	Dimensions					Part Numbers
	A	B	C	D	E	Mounting Ears
6	**1.100** 27.94	**1.264** 32.11	**.976** 24.79	**1.535** 38.99	**1.785** 45.34	1-583859-3
8	**1.412** 35.86	**1.576** 40.03	**1.288** 32.72	**1.847** 46.91	**2.097** 53.26	2-583859-1
10	**1.724** 43.79	**1.888** 47.96	**1.600** 40.64	**2.159** 54.84	**2.409** 61.19	583859-9
12	**2.036** 51.71	**2.200** 55.88	**1.912** 48.56	**2.471** 62.76	**2.721** 69.11	1-583859-5
15	**2.504** 63.60	**2.668** 67.77	**2.380** 60.45	**2.939** 74.65	**3.189** 81.00	583859-7
18	**2.972** 75.49	**3.136** 79.55	**2.848** 72.34	**3.407** 86.54	**3.657** 92.89	583859-5
22	**3.596** 91.34	**3.760** 95.50	**3.472** 88.19	**4.031** 102.39	**4.281** 108.74	583859-3
28	**4.532** 115.11	**4.696** 119.28	**4.408** 111.96	**4.967** 126.16	**5.217** 132.51	583859-1
36	**5.780** 146.81	**5.944** 150.96	**5.656** 143.66	**6.215** 157.86	**6.465** 164.21	2-583859-3

Note: Other connector sizes can be made available, consult Tyco Electronics.

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Accessories for Crimp Snap Twin Leaf Connectors

Dummy Contacts

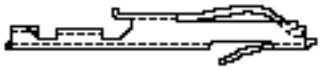
Material: Phosphor bronze

Related Product Data:

The dummy contact is used in sparsely loaded housings to balance contact pressure. For specific recommendations, consult Tyco Electronincs.

Technical Documents
(pages 186, 187):

Instruction Sheet 408-7527



Tin Plated — **Part No. 583857-5**
.000030 [0.00076] Nickel Plated — **Part No. 583857-6**
Gold Flash-Over-Nickel Plate— **Part No. 583857-7**

Retaining Spring

Material: Stainless steel

Related Product Data:

Retaining springs are used for single sided PC board applications. Use one spring per 6 empty cavities.

Technical Documents
(pages 186, 187):

Instruction Sheet 408-7527

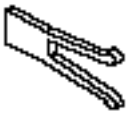


Unplated— **Part No. 583691-2**
Gold Flash-Over-Nickel Plate— **Part No. 583691-3**

Keying Plugs

Technical Documents
(pages 186, 187):

Instruction Sheet 408-7527



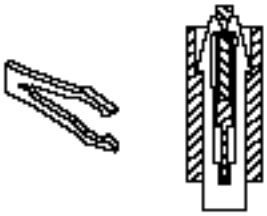
On-Contact Plug
Natural Nylon— **Part No. 583764-1**



Intercontact Plug
Natural Nylon— **Part No. 583274-1**
Glass-Filled Polyester— **Part No. 583274-3**

Locking Key

Material: Nylon

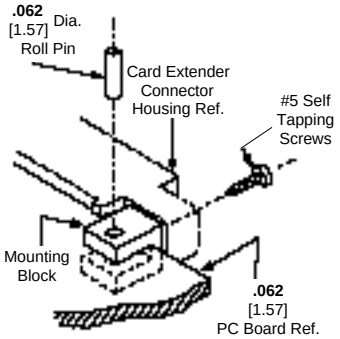


On-Contact Clip
Part No. 530213-1

Mounting Block

Material: Natural color nylon

Kit Part No. 531250-4
Each kit includes 2 mounting blocks
2 self tapping screws,
#5 x .437 [11.10]
2 roll pins
.075 x .250 [1.57 x 6.35]



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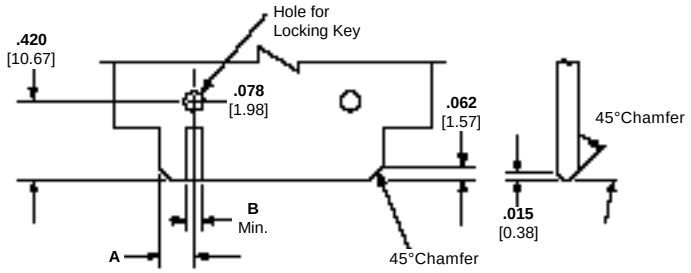
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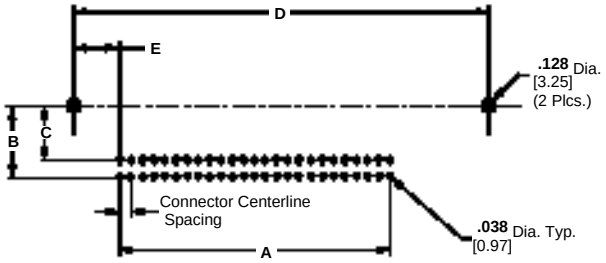
Crimp Snap Twin Leaf Connectors (Continued)

Recommended PC Board Edge Pattern



Connector Centerline Spacing	Dimensions	
	A	B
.100 2.54	**.093** 2.36	**.052** 1.32
.125 3.18	**.118** 3.00	**.078** 1.98
.156 3.96	**.153** 3.89	**.094** 2.39

Recommended PC Board Hole Layout



Connector Centerline Spacing: .100 [2.54]

No. of Dual Positions	Dimensions				
	A	B	C	D	E
10	**.900** 22.86	**.625** 15.88	**.475** 12.07	**1.575** 40.01	**.400** 10.16
17	**1.600** 40.64	—	—	—	—
20	**1.900** 48.26	**.625** 15.88	**.375** 9.53	**2.575** 65.41	**.337** 8.56
22	**2.100** 53.34	**.625** 15.88	**4.75** 12.07	**2.900** 73.66	**.337** 8.56
25	**2.400** 60.96	**.625** 15.88	**.475** 12.07	**3.200** 81.28	**.400** 10.16
30	**2.900** 73.66	—	—	**3.700** 93.98	**.400** 10.16
50	**4.900** 124.46	**.525** 13.34	**.375** 9.53	**5.575** 141.61	**.337** 8.56

Connector Centerline Spacing: .125 [3.18]

No. of Dual Positions	Dimensions				
	A	B	C	D	E
30	**3.625** 92.08	—	—	**4.295** 109.09	**.350** 8.89

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AMP-LEAF Connectors



Product Facts

- **Contacts on .156 [3.96] centers**
- **Glass-filled polyester, phenolic or diallyl phthalate housings**
- **Closed card entry design helps prevent overstressing of contacts**
- **Gold-over-nickel plated contacts**
- **Locking lance permits easy contact replacement**
- **Keying**
- **Contacts maintain exact pressures on the circuit paths, despite repeated insertions and extractions**
- **Recognized under the Component Program of Underwriters Laboratories Inc. File No. E28476**
- **Certified by Canadian Standards Association**, File No. LR 7189**

**CSA certification pending for certain products, as noted.

Performance Specifications

Contact Current Rating*:
5.0 amperes, max.

Contact Engaging Force:
16 oz. [4.4 N], max.

Contact Separation Force:
2 oz. [0.6 N], min.

Vibration:
MIL-STD-202, Method 201

Operating Temperature:
Contacts –40°C to +85°C

Storage Temperature:
–40°C to +85°C

Housings:

Glass-Filled Polyester, –55°C to +105°C

Glass-Filled Phenolic, –65°C to +125°C

Diallyl Phthalate, –65°C to +125°C

***Consult Tyco Electronics engineering when paralleling contacts for power applications.**

AMP-LEAF Connectors are available with crimp, snap-in contacts or preloaded with right-angle posted contacts.

The crimp type printed circuit connector is supplied with the housing unloaded—the user buys only enough contacts to satisfy circuit requirements. This feature, when coupled with the Tyco Electronics matched tooling, contributes substantially to lower installed costs.

Right-angle posted connectors are supplied in various sizes, with preloaded contacts on one or both sides. The solder-type posts are formed 90° from the housing to permit right-angle interfacing between mother and daughter boards.

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AMP-LEAF Connectors (Continued)

Crimp, Snap-In Contacts

Material and Finish:

Phosphor bronze, plated as follows:
Plating A—.000100-.000200 [0.00254-0.00508] tin (lubricant must be used)
Plating B—.000030 [0.00076] min. gold in mating area, gold flash on remainder of contact, with entire contact underplated .000050 [0.00127] min. nickel
Plating C—.000015 [0.00038] min. gold in mating area, gold flash on remainder of contact, with entire contact underplated .000050 [0.00127] min. nickel
Plating D—.000030 [0.00076] min. gold over .000050 [0.00127] min. nickel in mating area, remainder of contact gold flash over .000015 [0.00038] min. nickel
Plating E—.000030 [0.00076] min. gold in mating area, with entire contact underplated .000050 [0.00127] min. nickel
Plating F—.000015 [0.00038] min. gold in mating area, with entire contact underplated .000050 [0.00127] min. nickel

Related Product Data:

Performance Specifications—page 164
Connector Housings—pages 167-169
Application Tooling—pages 184, 185

Technical Documents:

(pages 186, 187):

Product Specifications
108-9013, 108-9043

Application Specification
114-9003

Instruction Sheets
408-6591, 408-7045, 408-7622, 408-7623, 408-7624, 408-7625, 408-7626

Crimp Inspection Sheet
CI 8050-33

Dummy Contact

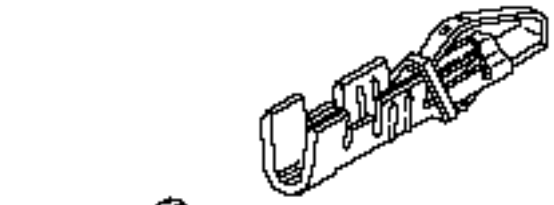
Material:

Phosphor bronze

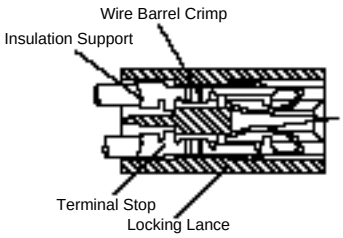
Technical Documents:

(pages 186, 187):

Instruction Sheet 408-7037







Wire Range AWG/mm²	Insulation Range		Contact Part Numbers		Contact Finish	Applicator for AMP-O-LECTRIC Machine*	Hand Tool
	Single Wire	Double Wire	Loose Piece	Strip Form			
26-22 0.12-0.4	**.050-.064** 1.27-1.63	—	583990-3	583204-2	B	466366-2	90028-3
			—	343371-1	D		
22-18 0.3-0.9	**.055-.080** 1.40-2.03	**.120** 3.05 Max.	—	583361-2	A	466367-2	90017-3 (1 #22-20) 90028-3 (2 #22) 90101-3 (1 #20)
			583989-3	583361-3	B		
			583989-4	583361-4	C		
			—	583555-4	E		
			—	583555-6	F		
16 1.25-1.40	**.108** 2.74 Max.	**.080-.160** 2.03-4.06	583991-3	60151-6	B	466368-2	90031-8 (2 #18) 90101-3 (2 #20) 90101-3 (1 #16)

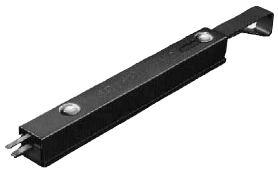
*Applicators are for AMP-O-LECTRIC Model "K" machines. Consult Tyco Electronics for applicators for other bench machines and lead-making machines.

Notes: 1. Shorting contacts are available, consult Tyco Electronics.
2. Contacts and housings to accommodate .093 [2.36] thick PC boards can be made available, consult Tyco Electronics.

Hand Crimping Tool



Contact Extraction Tool



Extraction Tool Number	Used with Housings
465195-1	480110-2, -5 480142-2, -3 582140-5 582147-5 582264-2 582500-2 582963-2 583167-3 583280-1 583617-1 583680-1 583685-1 583722-1 583723-1 583724-1 583725-1 583726-1
465195-2	480133-2



Plain Finish—
Part No. 66084-1
Tin Finish—
Part No. 66084-2
Gold Finish—
Part No. 66084-3

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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

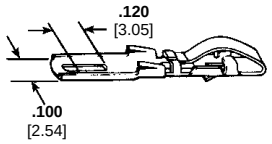
South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

AMP-LEAF Connectors (Continued)

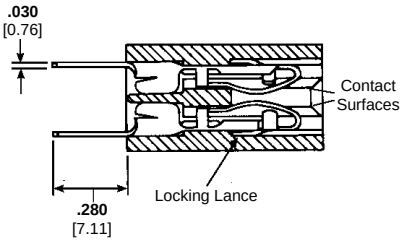
Solder Eyelet Contact

Material and Finish:

Phosphor bronze, plated .000015 [0.00038] min. gold in contact area, gold flash on remainder of contact, with entire contact underplated .000050 [0.00127] min. nickel



Standard Eyelet Type Contact
Part No. 66067-5
(For .055-.070 [1.4-1.78]
Thick PC Boards)

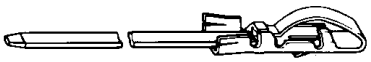


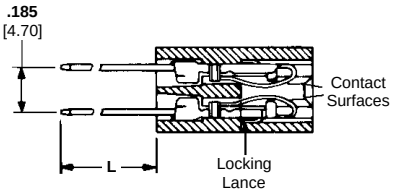
Note: Solder tab will accommodate a maximum of two 16 AWG [1.25-1.4 mm²] solid wires, or two 18 AWG [0.8-0.9 mm²] stranded wires.

Post Type Contacts

Material and Finish:

Phosphor bronze, plated .000015 [0.00038] min. gold in contact area, tin on post, with entire contact underplated .000050 [0.00127] min. nickel





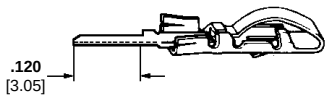
Post Length L	Loose Piece Contact Part No. (.045 x .045 [1.14 x 1.14] Post)
.960 24.38	1-582355-3
.560 14.22	1-582355-5

Note: Post type contacts are for .055-.070 [1.4-1.78] thick PC boards.

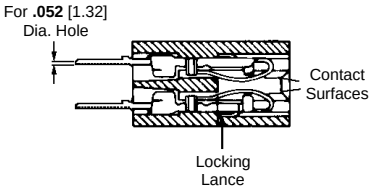
Solder Dip Contacts

Material and Finish:

Phosphor bronze, plated .000015 [0.00038] min. gold in contact area or, plated .000030 [0.00076] min. gold in contact area, tin on post, with entire contact underplated .000050 [0.00127] min. nickel



Solder Dip Contact
Part No. 583294-2 (.000015)
Part No. 583294-1 (.000030)
(For .062 [1.57]
Thick PC Board)



Catalog 1654080
Issued 7-03

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Japan: 81-44-844-8013
UK: 44-141-810-8967

AMP-LEAF Connectors, .156 [3.96] Centerline

Glass-Filled Polyester Housings

Material: Glass-filled polyester

Related Product Data:

Card Guide Assembly—page 171

PC Board Thickness—.055-.070 [1.40-1.78]

Performance Specifications—page 164

Contacts—pages 165, 166

Accessories—page 171

PC Board Layout—page 172

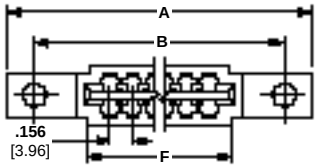
Technical Documents:

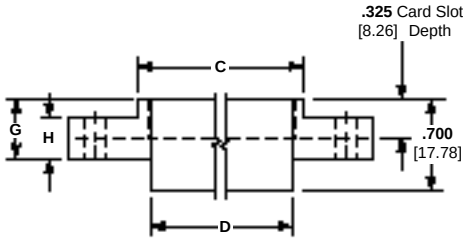
(pages 186, 187):

Product Specifications
108-9013, 108-9043

Application Specification
114-9003

Instruction Sheet 408-7037







No. of Dual Positions	Dimensions										Housing Part Numbers
	A	B	C	D	E	F	G	H	J	K	
6	**1.785** 45.34	**1.535** 38.99	**1.264** 32.11	**.976** 24.79	**.125** 3.18	**1.100** 27.94	**.456** 11.58	**.250** 6.35	**.300** 7.62	**.350** 8.89	583722-1
10	**2.409** 61.19	**2.159** 54.84	**1.888** 47.96	**1.600** 40.64	**.125** 3.18	**1.724** 43.79	**.456** 11.58	**.250** 6.35	**.300** 7.62	**.350** 8.89	583723-1
12	**2.721** 69.11	**2.471** 62.76	**2.200** 55.88	**1.912** 48.56	**.125** 3.18	**2.036** 51.71	**.456** 11.58	**.250** 6.35	**.300** 7.62	**.350** 8.89	583724-1*
15	**3.189** 81.00	**2.939** 74.65	**2.668** 67.77	**2.380** 60.45	**.128** 3.25	**2.504** 63.60	**.456** 11.58	**.250** 6.35	**.300** 7.62	**.350** 8.89	583680-1
18	**3.657** 92.89	**3.407** 86.54	**3.136** 79.65	**2.848** 72.34	**.125** 3.18	**2.972** 75.49	**.456** 11.58	**.250** 6.35	**.300** 7.62	**.350** 8.89	583725-1
18	**3.657** 92.89	**3.407** 86.54	**3.136** 79.65	**2.848** 72.34	**.156** 3.96	**2.972** 75.49	**.456** 11.58	**.250** 6.35	**.300** 7.62	**.350** 8.89	583725-3
22	**4.281** 108.74	**4.031** 102.39	**3.760** 95.50	**3.472** 88.19	**.125** 3.18	**3.596** 91.34	**.456** 11.58	**.250** 6.35	**.300** 7.62	**.350** 8.89	583617-1
22	**4.281** 108.74	**4.031** 102.39	**3.760** 95.50	**3.472** 88.19	**.156** 3.96	**3.596** 91.34	**.456** 11.58	**.250** 6.35	**.300** 7.62	**.350** 8.89	583617-3
25	**4.749** 120.62	**4.499** 114.27	**4.228** 107.39	**3.940** 100.01	**.125** 3.18	**4.064** 103.23	**.456** 11.58	**.250** 6.35	**.300** 7.62	**.350** 8.89	583726-1
30	**5.529** 140.44	**5.279** 134.09	**5.008** 127.20	**4.720** 119.89	**.125** 3.18	**4.844** 123.04	**.456** 11.58	**.250** 6.35	**.300** 7.62	**.350** 8.89	583685-1
36	**7.015** 178.18	**6.578** 167.08	**5.942** 150.92	**5.722** 145.33	**.156** 3.96	**5.782** 146.86	**.455** 11.55	**.290** 7.36	**.325** 8.25	**.437** 11.10	583552-1

*CSA certification pending.

Note: Other connector sizes can be made available, consult Tyco Electronics.

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Issued 7-03

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

AMP-LEAF Connectors, .156 [3.96] Centerline (Continued)

Glass-Filled Phenolic Housings

Material: Glass-filled phenolic per MIL-M-14F

Related Product Data:

Card Guide Assembly—page 171

Performance Specifications—page 164

Contacts—pages 165, 166

Accessories—page 171

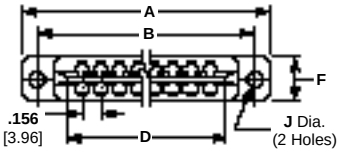
PC Board Layout—page 172

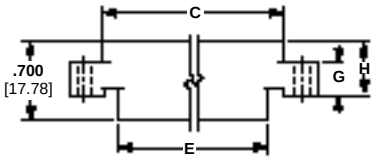
Technical Documents:
(pages 186, 187):

Product Specifications
108-9013, 108-9043

Application Specification
114-9003

Instruction Sheet 408-7037





No. of Dual Positions	Dimensions									Board Thickness	Housing Part Numbers
	A	B	C	D	E	F	G	H	J		
8	**1.982** 50.34	**1.767** 44.88	**1.550** 39.37	**1.410** 35.81	**1.288** 32.72	**.340** 8.64	**.250** 6.35	**.458** 11.63	**.125** 3.18	**.055-.070** 1.40-1.78	582140-5
10	**2.407** 61.14	**2.157** 54.79	**1.866** 47.90	**1.722** 43.74	**1.598** 40.59	**.360** 9.14	**.250** 6.35	**.456** 11.58	**.128** 3.25	**.055-.070** 1.40-1.78	582963-2*
10	—	—	**1.886** 47.90	**1.722** 43.74	**1.598** 40.59	**.360** 9.14	—	—	—	**.055-.070** 1.40-1.78	583280-1[1]
15	**3.182** 80.82	**2.854** 72.49	**2.621** 66.57	**2.506** 63.65	**2.376** 60.35	**.350** 8.89	**.250** 6.35	**.466** 11.84	**.187** 4.75	**.055-.070** 1.40-1.78	480110-5
15	**3.182** 80.82	**2.854** 72.49	**2.621** 66.57	**2.506** 63.65	**2.376** 60.35	**.350** 8.89	**.250** 6.35	**.466** 11.84	**.125** 3.18	**.055-.070** 1.40-1.78	1-582147-5*
15	**3.182** 80.82	**2.933** 74.49	**2.621** 66.57	**2.506** 63.65	**2.376** 60.35	**.350** 8.89	**.250** 6.35	**.466** 11.84	**.128** 3.25	**.055-.070** 1.40-1.78	582500-5
18	**3.650** 92.71	**3.400** 86.36	**3.088** 78.43	**2.948** 74.87	**2.843** 72.21	**.375** 9.52	**.155** 3.93	**.406** 10.31	**.156** 3.96	**.055-.070** 1.40-1.78	480133-5
22	**4.274** 108.56	**4.025** 102.24	**3.754** 95.35	**3.591** 91.21	**3.466** 88.04	**.350** 8.89	**.250** 6.35	**.456** 11.58	**.125** 3.18	**.055-.070** 1.40-1.78	480142-3
25	**4.741** 120.42	**4.493** 114.12	**4.221** 107.21	**4.058** 103.07	**3.933** 99.90	**.350** 8.89	**.250** 6.35	**.456** 11.58	**.125** 3.18	**.055-.070** 1.40-1.78	583167-3*
32	**6.365** 161.67	**5.928** 150.57	**5.292** 134.42	**5.132** 130.35	**5.072** 128.83	**.485** 12.32	**.290** 7.37	**.455** 11.56	**.187** 4.75	**.084-.104** 2.13-2.64	582264-2[2,3]

*CSA certification pending.

[1]Housing without mounting ears.
[2]Housing does not accommodate intercontact keying plug.
[3]For .086 to .104 [2.18 to 2.64] thick PC boards (special contacts required).

Note: Other connector sizes can be made available, consult Tyco Electronics.

AMP-LEAF Connectors, .156 [3.96] Centerline (Continued)

Diallyl Phthalate Housings

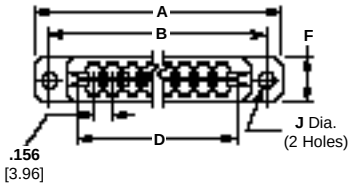
Material: Diallyl phthalate per MIL-M-14F

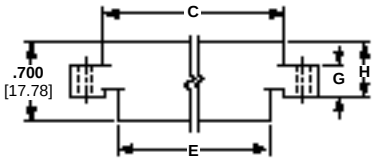
Related Product Data:

Card Guide Assembly—page 171
Performance Specifications—page 164
Contacts—pages 165, 166
Accessories—page 171
PC Board Layout—page 172

Technical Documents:
(pages 186, 187):

Product Specifications
108-9013, 108-9043
Application Specification
114-9003
Instruction Sheet 408-7037





Single Slot Housing

No. of Dual Positions	Dimensions									Board Thickness	Housing Part Numbers
	A	B	C	D	E	F	G	H	J		
15	**3.187** 80.95	**2.859** 72.62	**2.625** 66.68	**2.510** 63.75	**2.380** 60.45	**.350** 8.89	**.250** 6.35	**.466** 11.84	**.187** 4.15	**.055-.070** 1.40-1.78	480110-2
15	**3.187** 80.95	**2.938** 74.63	**2.625** 66.68	**2.510** 63.75	**2.380** 60.45	**.350** 8.89	**.250** 6.35	**.466** 11.84	**.128** 3.25	**.055-.070** 1.40-1.78	582500-2
18	**3.656** 92.86	**3.406** 86.51	**3.093** 78.56	**2.953** 75.01	**2.848** 72.34	**.375** 9.53	**.155** 3.94	**.406** 10.31	**.156** 3.96	**.055-.070** 1.40-1.78	480133-2
22	**4.281** 108.74	**4.031** 102.39	**3.760** 95.90	**3.596** 91.34	**3.472** 88.19	**.350** 8.89	**.250** 6.35	**.456** 11.58	**.125** 3.18	**.055-.070** 1.40-1.78	480142-2

Note: Other connector sizes can be made available, consult Tyco Electronics.

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Issued 7-03

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UK: 44-141-810-8967

AMP-LEAF Connectors, .156 [3.96] Centerline (Continued)

Housings Preloaded with Right-Angle Post Contacts

Material and Finish:

Housing—See chart below

Contacts—Phosphor bronze, plated .000015 [0.00038] min. gold in mating area, with entire contact underplated .000050 [0.00127] min. nickel

Post—Phosphor bronze, tin plated

Retaining Spring—Stainless steel

Related Product Data:

Card Guide Assembly—page 171

Performance Specifications—page 164

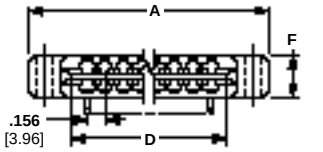
Accessories—page 171

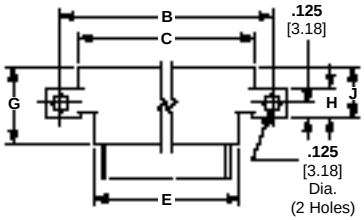
PC Board Layout—page 172

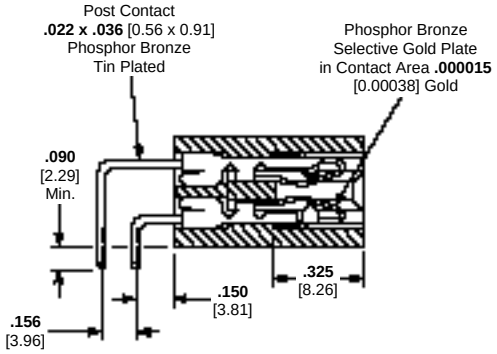
Technical Documents:

(pages 186, 187):

Product Specification
108-9013







No. of Dual Positions	Dimensions									Part Numbers	Housing Material
	A	B	C	D	E	F	G	H	J		
10	**2.407** 61.14	**2.157** 54.79	**1.886** 47.9	**1.722** 43.74	**1.598** 40.59	**.360** 9.14	**.700** 17.78	**.250** 6.35	**.456** 11.58	583599-1*	Glass-Filled Phenolic
15	**3.182** 80.82	**2.933** 74.5	**2.621** 66.57	**2.506** 63.65	**2.376** 60.35	**.350** 8.89	**.700** 17.78	**.250** 6.35	**.466** 11.84	583545-1*	
18	**3.650** 92.71	**3.400** 86.36	**3.088** 78.44	**2.948** 74.88	**2.843** 72.21	**.375** 9.53	**.700** 17.78	**.250** 6.35	**.406** 10.31	583544-1*	
	3.657 92.89	**3.457** 86.54	**3.136** 79.65	**2.972** 75.49	**2.848** 72.34	**.350** 8.89	**.700** 17.78	**.250** 6.35	**.456** 11.58	530851-1	Glass-Filled Polyester
22	**4.274** 108.56	**4.025** 102.24	**3.754** 95.35	**3.591** 91.21	**3.466** 88.04	**.350** 8.89	**.700** 17.78	**.250** 6.35	**.456** 11.58	583458-2*	Glass-Filled Phenolic
	4.281 108.74	**4.031** 102.39	**3.760** 95.50	**3.596** 91.34	**3.472** 88.19	**.350** 8.89	**.700** 17.78	**.250** 6.35	**.456** 11.58	583975-1*	Glass-Filled Polyester
28	**5.270** 133.86	**4.961** 126.01	**4.680** 118.87	**4.527** 114.99	**4.402** 111.81	**.350** 8.89	**.700** 17.78	**.250** 6.35	**.456** 11.58	530061-1*	Glass-Filled Phenolic

*CSA certification pending.

Notes: 1. Other connector sizes can be made available, consult Tyco Electronics.
2. Finished hole size is .048-.054 [1.22-1.37] diameter.

Catalog 1654080
Issued 7-03

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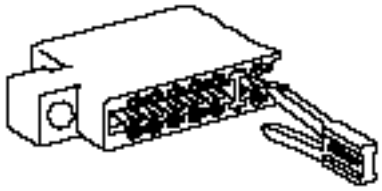
AMP-LEAF Connector Accessories

Keying Plugs

Material: Nylon

Technical Documents:
(pages 186, 187):
Instruction Sheets 408-7036, 408-7037, 408-7068, 408-7339

On-Contact Keying Plug



.055-.070 [1.4-1.78] Board Thickness—**Part No. 480143-1**

Intercontact Keying Plugs

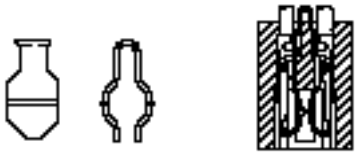


.040 [1.02] Wide—**Part No. 582501-1**
.025 [0.64] Wide—**Part No. 583274-1**

Commoning Springs

Material and Finish:
Beryllium copper, gold plated

Technical Documents:
(pages 186, 187):
Instruction Sheet 408-7419



.055-.070 [1.4-1.78] thk. PC board—**Part No. 66092-1**

.055-.070 [1.4-1.78] and .084-.104 [2.13-2.64] thk. PC board with locking latches—**Part No. 583454-1**

Retaining Springs

Material: Stainless steel

Technical Documents:
(pages 186, 187):
Instruction Sheets 408-7035, 408-7037

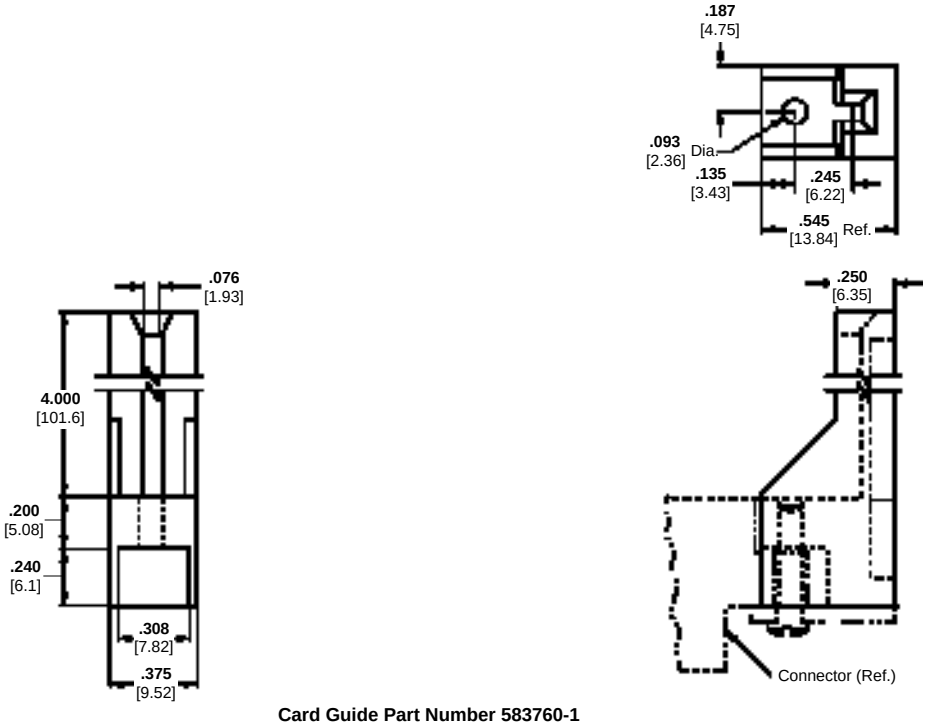


Nickel Finish—**Part No. 42973-1**
Plain Finish—**Part No. 42973-2**
Gold Finish—**Part No. 42973-3**

Card Guides

Material: Glass-filled nylon, black

Technical Documents:
(pages 186, 187):
Instruction Sheets 408-7557, 408-7565



Card Guide Part Number 583760-1

Note: Card guides may be used with all connector housings having mounting ears.

Catalog 1654080
Issued 7-03

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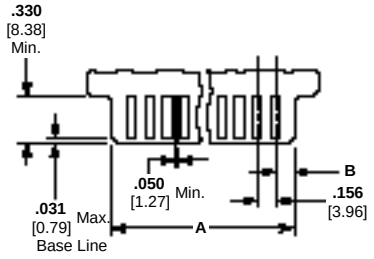
USA: 1-800-522-6752
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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
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AMP-LEAF Connector PC Board Layouts

Recommended PC Board Layouts

Technical Documents:
(pages 186, 187):
Instruction Sheet 408-7037



Note: Slot for intercontact keying may be located between any two pads (except the first two and last two pads).

No. of Positions	Housing Material	Dimensions	
		A	B
8	P	**1.396** 35.46	**.152** 3.86
10	P	**1.709** 43.40	**.151** 3.84
15	DP	**2.491** 63.27	**.153** 3.89
	P	**2.487** 63.17	**.152** 3.86
18	DP	**2.940** 74.68	**.144** 3.66
22	DP	**3.583** 91.00	**.153** 3.89
	P	**3.578** 90.88	**.151** 3.84
25	P	**4.043** 102.69	**.150** 3.81
32	P	**5.117** 129.97	**.140** 3.56

DP = Diallyl Phthalate
P = Phenolic

Note: Board thickness **.055-.070** [1.4-1.78] all positions except 32 position–**.084-.104** [2.13-2.64].

Catalog 1654080
Issued 7-03

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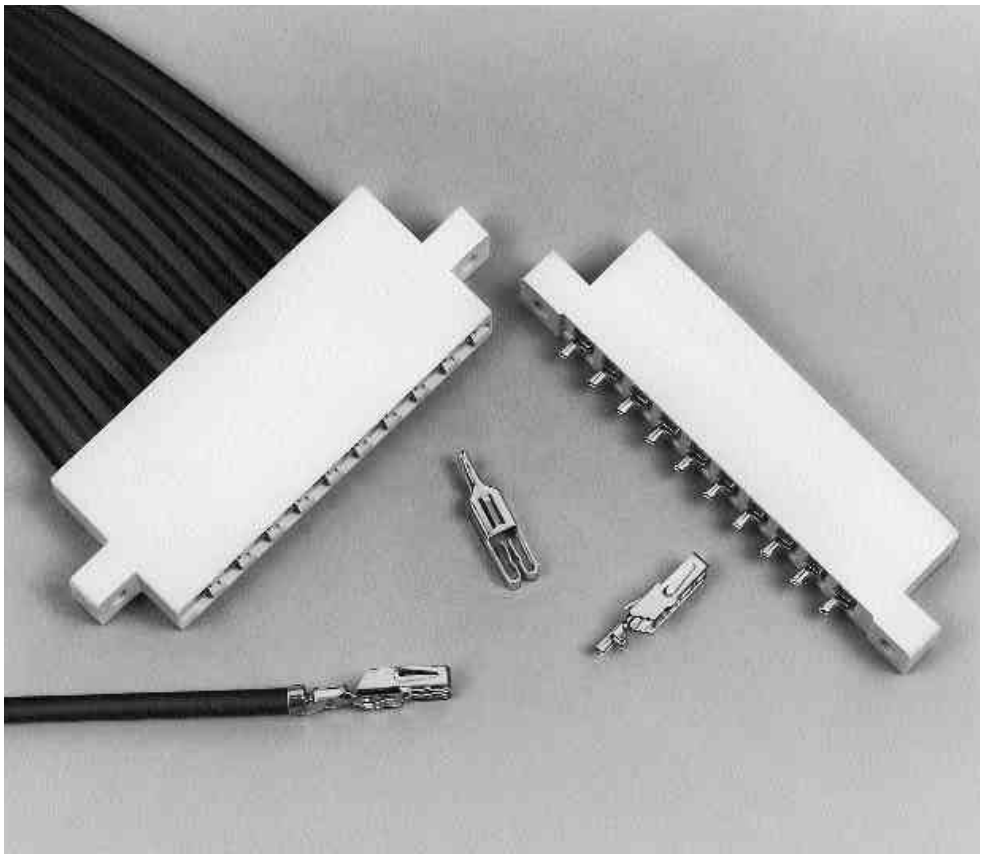
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High Current Connectors

Product Facts

- **High current capability up to 30 amperes***
- **UL rated 94V-0 glass-filled thermoplastic housings**
- **Choice of wire-to-board and board-to-board (solder tail) connector configurations in 3, 4, 8, 9, 10 and 12 contact sizes**
- **Heavy duty contacts made of high conductivity copper alloy with tin-over-nickel plating**
- **Contacts on .312 [7.92] centers**
- **Large redundant areas of contact provide excellent electrical continuity**
- **Connectors available for mating with .062 [1.57], .093 [2.36] and .125 [3.18] thick double-sided PC boards**
- **Contacts furnished in strip form for automatic machine termination and loose form for hand tool application**
- **Recognized under the Component Program of Underwriters Laboratories Inc. File No. E28476**
- **Certified by Canadian Standards Association File No. LR 7189**



AMP High Current Edge Connectors are an economical answer to the costly issue of interconnecting high current printed circuitry. Designed for a current capability of up to 30 amperes*, these connectors feature UL rated 94V-0, rugged glass-filled thermoplastic housings and high conductivity copper alloy contacts with bright tin-over-nickel plating. Contacts are on .312 [7.92] centers.

Connectors are available in 3, 4, 8, 9, 10 and 12 contact positions and in a choice of two styles for board-to-board and wire-to-board applications.

The board-to-board connectors are supplied preloaded with solder tail contacts and are designed to mate with .062 [1.57] thick double-sided daughter boards.

Wire-to-board housings are available with and without mounting ears and with capabilities of mating with .062 [1.57], .093 [2.36] and .125 [3.18] thick double-sided daughter boards. These housings are designed to accept crimp, snap-in contacts which can accommodate a wire size range of 16-10 AWG [1.25-6 mm^2]. Contacts are furnished in strip form for automatic machine termination and in loose form for hand tool application.

While the basic contact is designed to carry 30 amperes* of current, the actual number of contacts in a connector carrying 30 amperes is limited by the "T" rise of the connector and the PC board.

Performance Specifications

Contact Current Rating*:
30 amperes, max.

Dielectric Withstanding Voltage (Sea Level):
1800 VAC

Operating Voltage:
250 VAC, max.

Insulation Resistance:
1000 megohms, min.

Contact Resistance @ 30 amperes:
2 milliohms, max.

Operating Temperature:
–40°C to +95°C

Contact Engagement Force:
40 oz. [11.12 N], max.

***When used with a .180 [4.57] wide double-sided PC board with 5 oz. [0.14 Kg] min. copper each side. Consult Tyco Electronics engineering when paralleling contacts for power applications.**

Catalog 1654080
Issued 7-03

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High Current Connectors (Continued)

Crimp, Snap-In Contacts

Material and Finish:

A—Copper alloy CDA-195 plated .000150 [0.00381] bright tin over .000030 [0.00076] nickel
B—Copper alloy CDA-195 plated .000150 [0.00381] silver all over

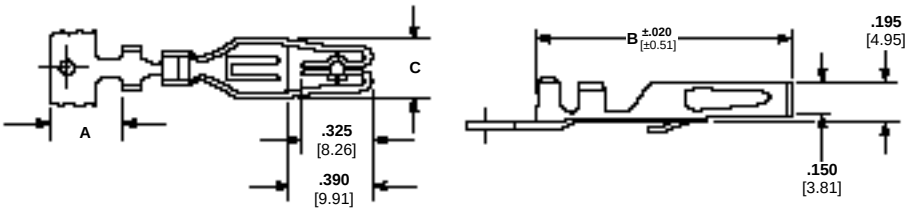
Related Product Data:

Performance Specifications—page 173
Connector Housings—page 175
Application Tooling—pages 184, 185

Technical Documents:

(pages 186, 187):

Product Specification 108-9045
Application Specification 114-9005
Instruction Sheets 408-7782, 408-7783, 408-7802



Plating	Wire Size Range		Ins. Dia. Range	Dimensions			Mateable Daughter Board Thickness	Contact Part Numbers		Applicator for AMP-O-LECTRIC Machine	Hand Tool 69710-1 Die Insert
	AWG	mm²		A	B	C		Loose Piece	Strip Form		
A	16-14	1.25-2	**.090-.145** 2.29-3.68	**.260** 6.60	**1.160** 29.46	**.285** 7.24	**.062** 1.57	530518-1	530517-2	466439-2	90333-1
A	12-10	3-6	**.160-.210** 4.06-5.33	**.190** 4.83	**1.230** 31.24	**.285** 7.24	**.062** 1.57	530520-1	530519-2	466438-2	90332-1
B	12-10	3-6	**.160-.210** 4.06-5.33	**.190** 4.83	**1.230** 31.24	**.285** 7.24	**.062** 1.57	—	530519-3	466438-2	90332-1
A	12-10	3-6	**.160-.210** 4.06-5.33	**.190** 4.83	**1.230** 31.24	**.347** 8.81	**.093** 2.36	—	531373-2	466438-2	90332-1

*Applicators are for AMP-O-LECTRIC Model "K" machines. Consult Tyco Electronics for applicators for other bench machines and lead-making machines.



Hand Crimping Tool 69710-1



Extraction Tool 91116-1

Catalog 1654080
Issued 7-03

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UK: 44-141-810-8967

High Current Connectors, .312 [7.92] Centerline

Housings

Material: White glass-filled polyester, 94V-0 rated

Related Product Data:

Performance Specifications—page 173

Contacts—page 174

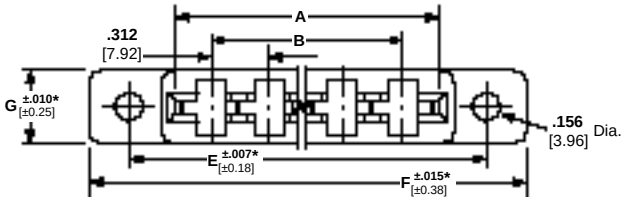
Technical Documents:

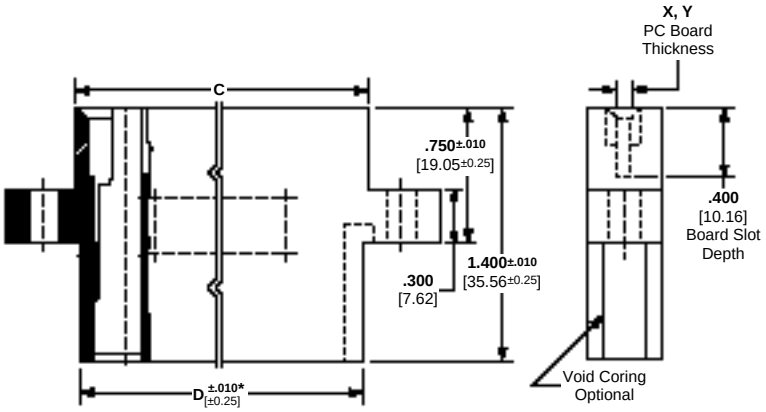
(pages 186, 187):

Product Specification 108-9045

Instruction Sheet 408-9123

With Mounting Ears





No. of Pos.	Dimensions							Housing Part Numbers	
	A	B	C	D	E	F	G	X = .062 [1.57] With Mtg. Ears	Y = .093 [2.36] With Mtg. Ears
3	**1.024** 26.01	**.624** 15.85	**1.164** 29.57	**1.114** 28.3	**1.538** 39.07	**1.972** 50.09	**.500** 12.70	—	531370-2
4	**1.336** 33.93	**.936** 23.77	**1.476** 37.49	**1.426** 36.22	**1.850** 46.99	**2.284** 58.01	**.437** 11.10	530521-3	—
8	**2.584** 65.63	**2.184** 55.47	**2.724** 69.19	**2.674** 67.92	**3.098** 78.69	**3.532** 89.71	**.437** 11.10	530521-6	—
9	**2.896** 73.56	**2.496** 63.40	**3.036** 77.11	**2.986** 75.84	**3.410** 86.61	**3.844** 97.64	**.437** 11.10	530521-7	—
12	**3.832** 97.33	**3.432** 87.17	**3.972** 10.89	**3.922** 99.62	**4.346** 110.39	**4.780** 121.41	**.437** 11.10	530521-9	—

Notes: 1. **X** Housings designed to accept **.055-.070** [1.4-1.78] thick daughter boards; use intercontact Keying Plug No. 530533-1.
2. **Y** Housings designed to accept **.084-.102** [2.13-2.59] thick daughter boards; use intercontact Keying Plug No. 531369-1. + Contact 531373-2.
3. Use Extraction Tool No. 91116-1 to remove contacts. (Refer to Instruction Sheet 408-7782).
4. Other connector sizes can be made available, consult Tyco Electronics.

Catalog 1654080
Issued 7-03

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UK: 44-141-810-8967

High Current Connectors .312 [7.92] Centerline (Continued)

Housings Preloaded with Solder Tail Contacts

Material and Finish:

Housing—White glass-filled polyester, 94V-0 rated

Contacts—
A—Copper alloy CDA-195 plated .000150 [0.00381] bright tin over .000030 [0.00076] nickel

B—Copper alloy CDA-195 plated .000150 [0.00381] silver plate over .000030 [0.00076] thk. nickel

C—Copper alloy CDA-195 plated .000030 [0.00076] gold in contact area, .000150 [0.00381] tin-lead solder post, over .000030 [0.00076] nickel

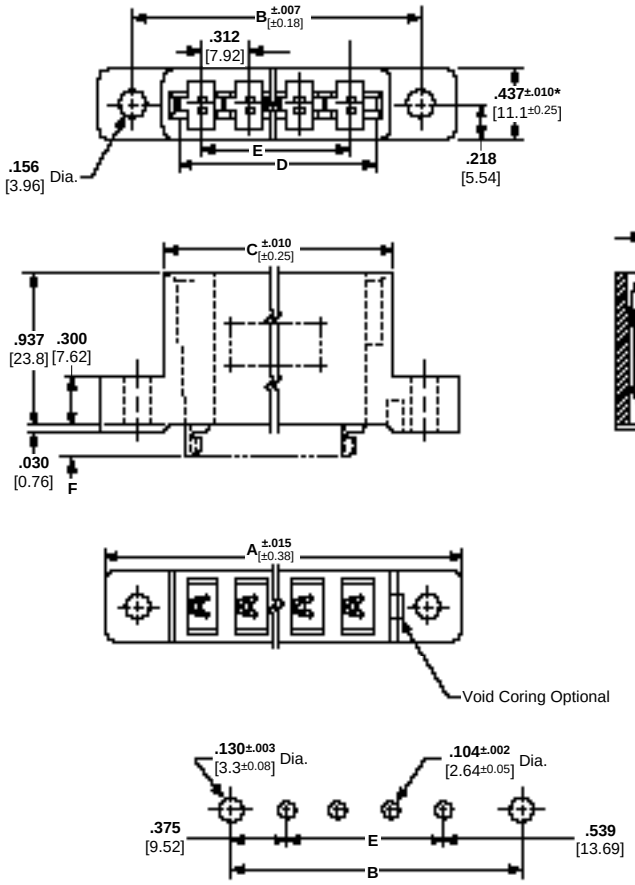
Related Product Data:

Performance Specifications—
page 173

Technical Documents:

(pages 186, 187):

Product Specification
108-9045



PC Board Thickness: **.062** [1.57]

Recommended PC Board Hole Layout

*May go to **.020** [0.51] over nominal at top center of housing.

No. of Positions	Dimensions A	B	C	D	E	F	Plating	Connector Part Numbers
3	**1.972** 50.09	**1.538** 39.07	**1.164** 29.57	**1.024** 26.01	**.624** 15.85	**.180** 4.57	A	531353-2
4	**2.284** 58.01	**1.850** 46.99	**1.476** 37.49	**1.336** 33.93	**.936** 23.77	**.180** 4.57	A	531353-3
5	**2.593** 65.86	**2.162** 54.91	**1.788** 45.42	**1.648** 41.86	**1.248** 31.70	**.180** 4.57	A	531353-4
6	**2.908** 73.86	**2.474** 62.84	**2.100** 53.35	**1.960** 49.78	**1.560** 39.62	**.180** 4.57	A	531353-5
8	**3.532** 89.71	**3.098** 78.69	**2.724** 69.19	**2.584** 66.63	**2.184** 55.47	**.180** 4.57	A	531353-6
							B	145116-3
						.283 7.19	B	146912-2
9	**3.844** 97.64	**3.410** 86.61	**3.036** 77.11	**2.896** 73.56	**2.496** 63.40	**.180** 4.57	A	531353-7
10	**4.156** 105.56	**3.722** 94.54	**3.348** 85.04	**3.208** 81.48	**2.808** 71.32	**.180** 4.57	A	531353-8
							B	145116-1
						.283 7.19	B	146912-3
12	**4.780** 121.41	**4.346** 110.39	**3.972** 100.89	**3.832** 97.33	**3.432** 87.17	**.180** 4.57	A	531353-9
							B	145116-2
							C	645200-3
						.283 7.19	B	146912-1

Notes: 1. A **.062** [1.57] thick dummy PC board should be inserted into the connector during soldering to a mother board.
2. Other connector sizes can be made available, consult Tyco Electronics.

Catalog 1654080
Issued 7-03

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DUO-TYNE Flag Connectors

Product Facts

- **Right angle design permits cabling in close quarters**
- **Recessed contacts help prevent arcing**
- **Sizes and configurations available with or without mounting ears**
- **Lowest installed costs achieved through high-speed compression crimping with AMP matched tooling**
- **Meets quality and reliability requirements for appliance controls, vending machine subassemblies and business machines**
- **Recognized under the Component Program of Underwriters Laboratories Inc. File No. E28476**
- **Certified by Canadian Standards Association File No. LR 7189**



This flag-type connector is designed to meet the quality and reliability of such equipment as appliance controls, vending machine subassemblies, television, stereo, business machines and other applications with similar control needs.

Among its assembly-saving features is a right-angle design which permits cabling in close quarters, where it does not require frame mounting to attach the keyed housing to the card cutout and double locking of the contacts when a PC board is inserted. In addition, contacts are recessed to prevent arcing. All sizes and configurations are available with or without mounting ears. Added to low initial cost, lowest installed costs are achieved through high-speed compression crimping with Tyco Electronics matched tooling.

Performance Specifications

Contact Rating*:
5 amperes

High Potential:
2200 VAC, rms

Operating Temperature:
–40°C to +105°C

Vibration:
10 to 55 cps per MIL-STD-1344, Method 202

***Consult Tyco Electronics engineering when paralleling contacts for power applications.**

Catalog 1654080
Issued 7-03

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DUO-TYNE Flag Connectors (Continued)

Tapered Beam Crimp, Snap-In Contacts

Material and Finish:

Beryllium copper or phosphor bronze (see chart) plated as follows:

Plating A—.000030 [0.00076] gold in mating area, with entire contact underplated .000050 [0.00127] nickel
Plating B—.000015 [0.00127] gold in mating area, with entire contact underplated .000050 [0.00127] nickel
Plating C—.000150 [0.00381] tin

Related Product Data:

Performance Specifications—page 177
Connector Housings—page 179
Application Tooling—pages 184, 185

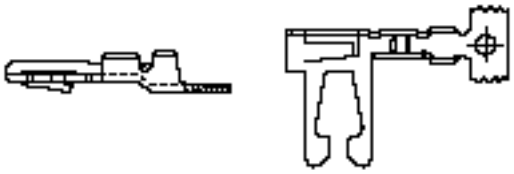
Technical Documents:

(pages 186, 187):

Product Specification
108-9038

Application Specification
114-9002

Instruction Sheets 408-7047, 408-7780, 408-7848, 408-7849



Wire Size Range		Insulation Dia. Range	Material	Contact Finish (Plating)	Contact Part Numbers		Applicator for AMP-O-LECTRIC Machine*	Hand Tool
AWG	mm²				Loose Piece	Strip Form		
26-22	**0.12-0.4**	**.035-.055** 0.89-1.40	**Beryllium** Copper	A	530005-3	530004-6	466586-2	90094-4
				B	—	530004-7		
22-18	0.3-0.9	**.060-.090** 1.52-2.29	Phosphor Bronze	B	—	530002-7	466424-2	90027-4
				C	—	530002-5		
				A	—	530002-3		
			Beryllium Copper	C	—	530006-5		
				A	—	530006-6		
				B	530007-3	—		
				C	—	530006-2		
18-16	0.8-1.4	**.090-.130** 2.29-3.30	Phosphor Bronze	C	—	530505-5	466413-2	—

*Applicators are for AMP-O-LECTRIC Model "K" machines. Consult Tyco Electronics for applicators for other bench machines and lead-making machines.

Hand Crimping Tool



Contact Extraction Tool 810992-1



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DUO-TYNE Flag Connectors (Continued)

Housings, With and Without Mounting Ears

Material: Natural nylon

Related Product Data:

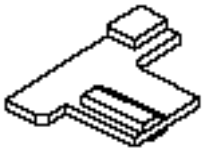
Performance Specifications—page 177
Contacts—page 178
PC Board Layout—page 181

Technical Documents:
(pages 186, 187):

Product Specification
108-9038
Application Specification
114-9002
Instruction Sheet 408-7047

On-Contact Keying Plug

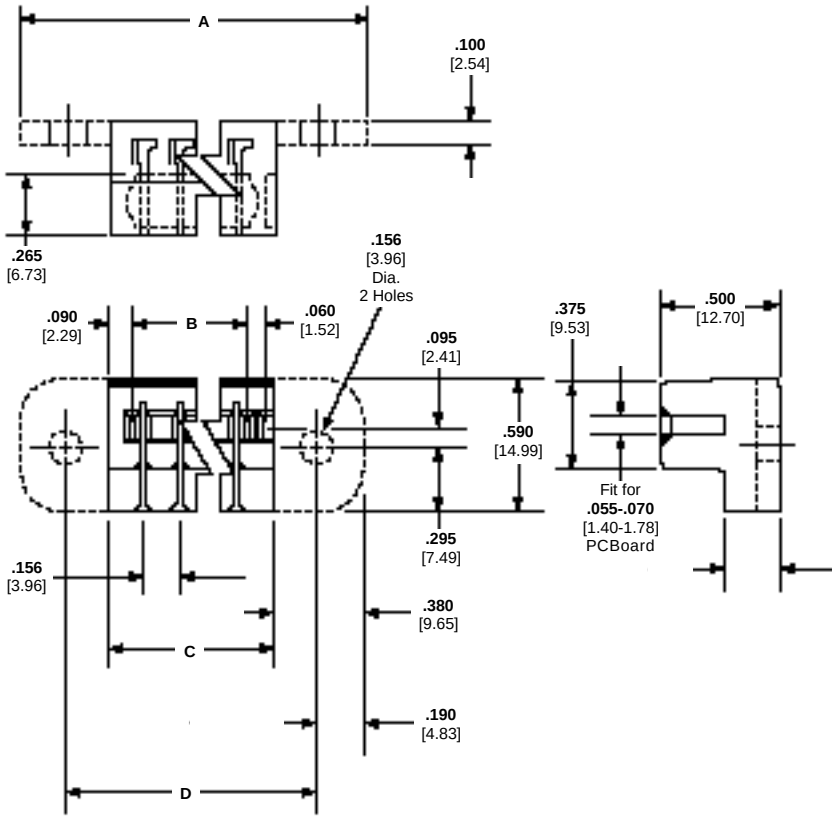
Material: Nylon



Part Number 583661-1

Technical Documents:
(pages 186, 187):

Instruction Sheet 408-7486



No. of Pos.	Dimensions				Part Numbers			
					With Mounting Ears		Without Mounting Ears	
	A	B	C	D	For Ins. Dia. Range .035-.090 [0.89-2.29]	For Ins. Dia. Range .090-.130 [2.29-3.30]	For Ins. Dia. Range .035-.090 [0.89-2.29]	For Ins. Dia. Range .090-.130 [2.29-3.30]
3	**1.384** 35.15	**.414** 10.52	**.624** 15.85	**1.004** 25.50	582380-9	—	—	—
5	—	**.736** 22.40	**.936** 27.74	—	—	—	582370-9	530853-2
6	**1.852** 47.04	**.882** 22.40	**1.092** 27.74	**1.472** 37.39	582382-9	530509-1	582371-9	530853-3
9	**2.320** 58.93	**1.350** 34.29	**1.560** 39.62	**1.940** 49.28	582383-9	530509-2	582375-9	—
12	**2.788** 70.82	**1.818** 46.18	**2.028** 51.51	**2.408** 61.16	582384-9	530509-6	582376-9	530853-5
14	**3.100** 78.74	**2.130** 54.10	**2.340** 59.44	**2.720** 69.09	582385-9	530509-7	582372-9	530853-6
15	**3.256** 82.70	**2.286** 58.06	**2.496** 63.40	**2.876** 73.05	582386-9	530509-3	582377-9	—
18	**3.724** 94.59	**2.754** 69.95	**2.964** 75.29	**3.344** 84.94	582387-9	530509-8	582378-9	530853-8
22	**4.348** 110.44	**3.378** 85.80	**3.588** 91.14	**3.968** 100.79	582388-9	530509-9	582379-9	—

Note: Other connector sizes can be made available, consult Tyco Electronics.

Catalog 1654080
Issued 7-03

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DUO-TYNE Flag Connectors (Continued)

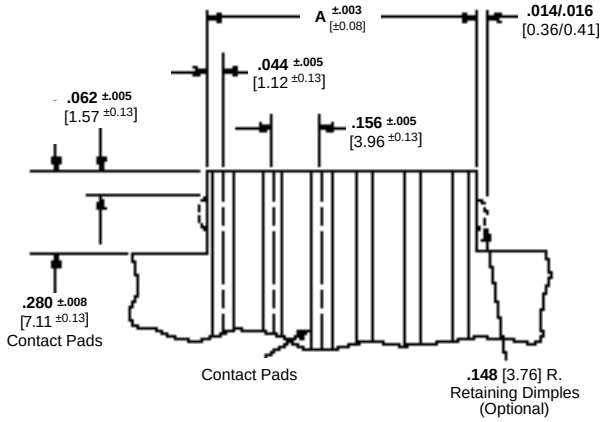
Recommended PC Board Layouts

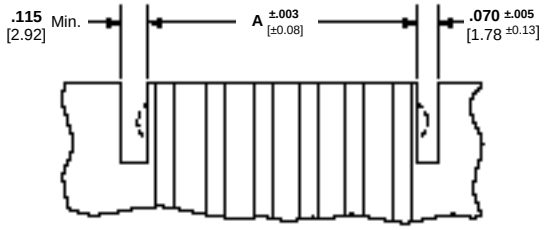
Related PC Board Data:

Recommended Board Thickness—.055-.070 [1.40-1.78]

Recommended Chamfer of Mating Edge of Boards—.015 [0.38] x 45°

Recommended Pad Plating—Tin .000150-.000400 [0.00381-0.01016] thick





No. of Positions	Dimension A
3	**.400** 10.16
5	**.712** 18.09
6	**.868** 22.05
9	**1.337** 33.96
12	**1.805** 45.85
14	**2.117** 53.77
15	**2.272** 57.71
18	**2.741** 69.62
22	**3.365** 85.47

Catalog 1654080
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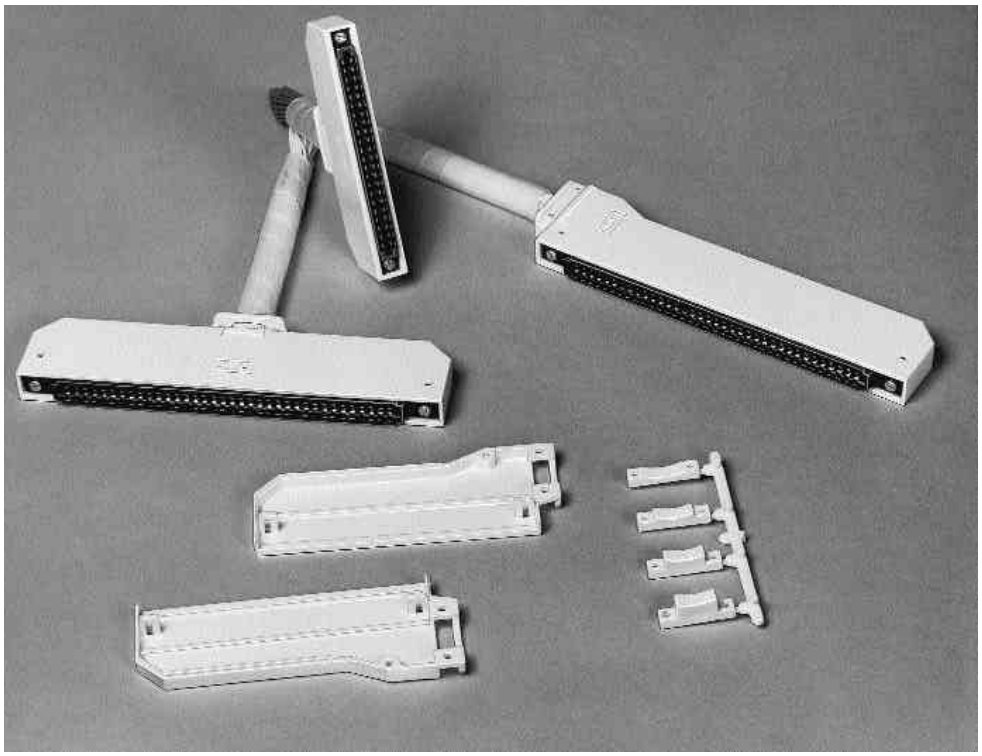
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Printed Circuit Board Connector Hood Assemblies

Product Facts

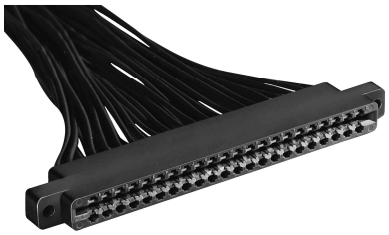
- **Can be used with the highly versatile AMP-LEAF and Crimp Snap Twin Leaf printed circuit edge connectors**
- **Clamping capabilities for wire bundles to .550 [13.97] maximum diameter**
- **Available with 90° or 180° cable outlet**
- **All plastic construction—thermoplastic material UL rated 94V-0 for electrical and mechanical applications up to + 105°C**
- **Thermoplastic material has excellent resistance to common commercial cleaners when used at moderate temperatures**
- **Separate hood assembly halves permit easy cable dressing**
- **Furnished in convenient kit form—each kit includes four cable clamp sizes**



For use with the following connectors:



Crimp Snap Twin Leaf Connectors
(Pages 154-163)



AMP-LEAF Connectors
(Pages 164-172)

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Specific Product Name_12 Hel. Con. (Continued)_9pt Helvetica Lt Condensed

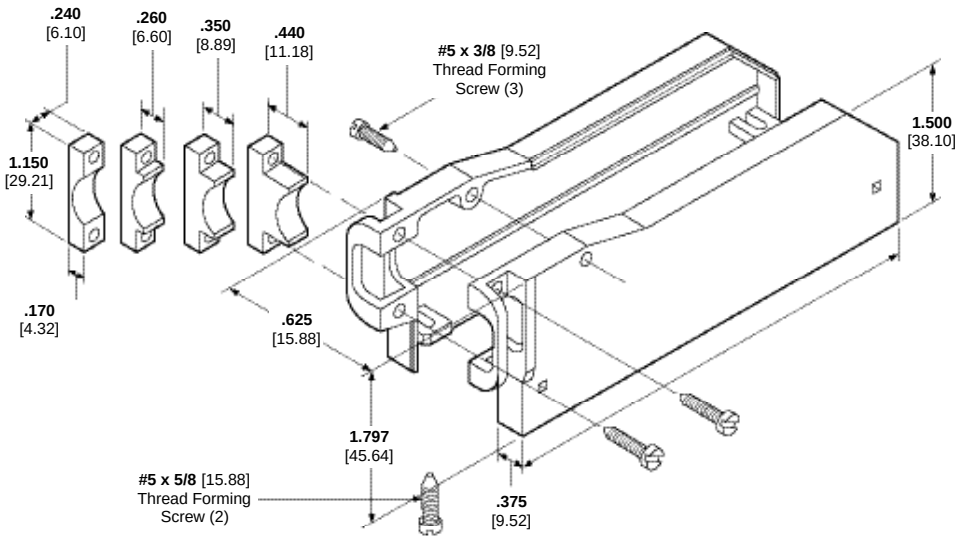
90° Cable Outlet

Material: Natural color thermoplastic

Related Product Data:

Crimp Snap Twin Leaf Connectors—pages 154-163
AMP-LEAF Connectors—pages 164-172

Technical Documents:
(pages 186, 187):
Instruction Sheet 408-7719



Connector Size				Hood L Dim. (Max.)	Connector Width .380 [9.65] Max.		Connector Width .437 [11.10]	
No. of Pos.	Contact Centers	Mtg. Hole Centers	Length (Max.)		AMP Connector Family	Hood Assembly Kit Number*	AMP Connector Family	Hood Assembly Kit Number*
18	**1.56** 3.96	**3.406** 86.51	**3.685** 93.60	**3.826** 97.18	AMP-LEAF	530088-3	—	—
22	**.156** 3.96	**4.031** 102.39	**4.296** 109.12	**4.451** 113.06	—	—	Crimp Snap Twin Leaf	1-530088-4

*All screws and four sizes of cable clamps are supplied with each kit.
Note: Other hood sizes can be made available, consult Tyco Electronics.

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UK: 44-141-810-8967

Printed Circuit Board Connector Hood Assemblies (Continued)

180° Cable Outlet

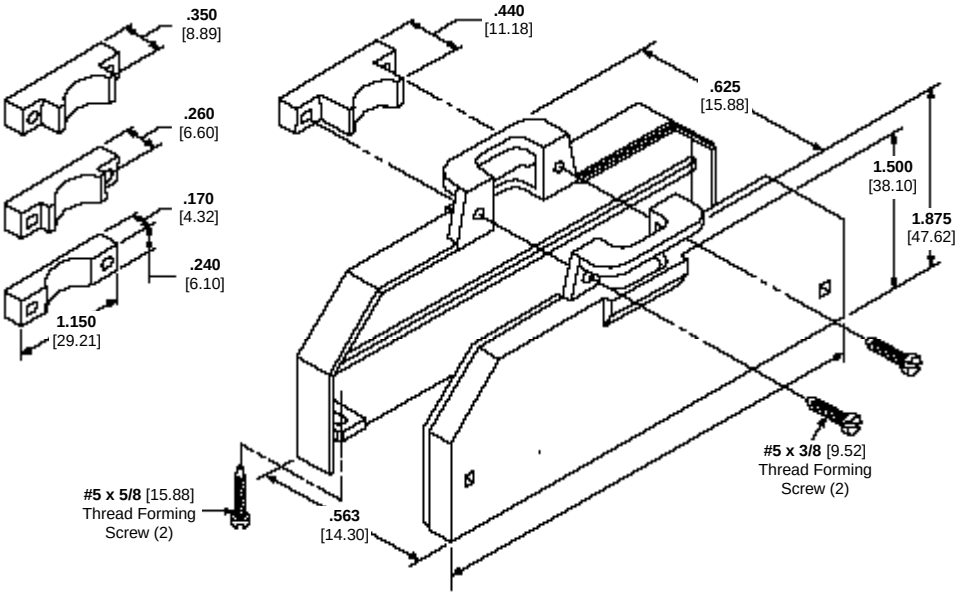
Material: Natural color thermoplastic

Related Product Data:

AMP-LEAF Connectors—
pages 164-172

Technical Documents:
(pages 186, 187):

Instruction Sheet 408-7719



No. of Pos.	Connector Size			Hood L Dim. (Max.)	Connector Width .380 [9.65] Max.	
	Contact Centers	Mtg. Hole Centers	Length (Max.)		AMP Connector Family	Hood Assembly Kit Number*
22	**.156** 3.96	**4.031** 102.39	**4.321** 109.76	**4.451** 113.06	AMP-LEAF	530087-4

*All screws and four sizes of cable clamps are supplied with each kit.

Note: Other hood sizes can be made available, consult Tyco Electronics.

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Application Tooling for Wire Crimp Contacts

Tooling shown on this page is designed to terminate wire crimp contacts used in various wire-to-board connectors.

AMP-O-LECTRIC Model "G" Terminating Machine (Shown with Optional Crimp Quality Monitor)



The AMP-O-LECTRIC Model "G" is a semi-automatic bench-top machine for terminating wire using reeled terminals and contacts. It features a quiet and reliable direct motor drive, microprocessor controls for ease of setup and operation, and guarding and lighting designed for operator convenience and safety. Three versions are available: with automatic precision adjust and machine-mounted sensors, or with manual precision adjust with or without sensors. All versions will accept existing Tyco Electronics ministyle applicators with minor modifications.

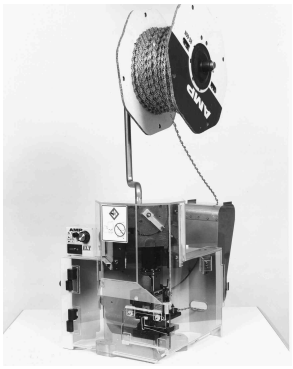
For further details, request Tyco Electronics Catalog 65828.

AMP-O-MATIC Model II Stripper/Crimper Machine (Shown with Optional Crimp Quality Monitor)



This machine also strips wire, and is therefore used to terminate jacketed cable. It features manual precision adjust, keyed strip blades for faster, more accurate setups, and an efficient scrap removal system. Applicators are interchangeable. All adjustments can be made from the front of the machine without special tools.

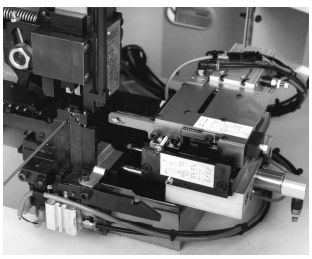
Entry Level Terminator (ELT), 1338600-(x)



Semiautomatic Bench Terminator for side- and end-feed reeled terminals and contacts. The ELT uses a DC motor with gear box drive. The result is a small-footprint design that is fast and quiet. Cycle time is less than 0.400 sec. with an operation sound level of 76dBa. With a crimp force capacity of 3,000 pounds, the ELT is available for all but the highest crimp force applications. Optional equipment is also available to meet your specific application requirements.

For more information, request catalog 1308382.

Optional Stripping Module for the ELT and AMP-O-LECTRIC Model G



The combination of the Stripping Module with the AMP-O-LECTRIC Model G Terminator or the Entry Level Terminator provides an economical, proficient method of stripping wire and crimping terminals on the same machine. Wires are stripped moments before crimping, meaning there is virtually no chance of damaging wire conductors during handling or storage. Once the wire is fed into the start sensor the Stripping Module does the rest, improving placement accuracy.

For more information, request catalog 1309085.

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Application Tooling for Wire Crimp Contacts (Continued)

AMPOMATOR CLS IV+ Lead-Making Machines, 356500-1, -2



Fully-automatic machines that measure, cut, strip and terminate single leads. Microprocessor-controlled, and programmed and operated using an easy-to-follow, menu-driven touchscreen. Features include direct-drive terminating units with precision crimp height adjustment, fully programmable setups, wire runout and splice detection, and motorized pre-feed with wire straightener. Crimp quality monitoring is also available.

For more information, request catalog 124324.

Crimp Quality Monitor (CQM), 1320420-1, -2



This unique system provides 100% on-the-fly crimp inspection. It measures the crimp height of each termination, and evaluates the quality of each crimp. If a crimp is questionable, the monitor alerts the operator with both visual and audible alarms. It also provides ports for printing and networking. When used with AMP-O-LECTRIC Model "G" Termination Machines, the monitor is mounted to the machine. When used with AMPOMATOR CLS IV Lead-Making Machines, it is integrated into the machine's operating system.

For more information, request catalog 82275.

CERTI-CRIMP Straight Action Hand Tools (SAHT)



Premium grade hand tools. Feature ratchet control to provide complete crimp cycle. Die sets close in a straight line. Include a contact locator and wire stop, plus an insulation crimp adjustment lever, when applicable. Approximate weight 1.3 lb [0.59 kg].

For more information, request catalog 65780.

626 Pneumatic Tool System



Lightweight, air-operated modular tooling system. Accepts a wide variety of interchangeable heads for crimping various types of contacts, terminals and splices onto wires ranging 6-26 AWG [13-0.12 mm^2], plus coaxial and fiber optic cable. Available with either hand- or foot-actuation switch. Optional ratchet control available to provide complete crimp cycle.

For more information, request catalog 124208.

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Technical Documents

The following is a list of technical documents covering the application, performance and maintenance of the AMP Card Edge Connectors presented in this catalog.

Product Specifications describe technical performance characteristics and verification tests. They are intended for the Design, Component and Quality Engineer.

Application Specifications describe requirements for using the product in its intended application and/or crimping information. They are intended for the Packaging and Design Engineer and the Setup person.

Instruction Sheets provide instructions for assembling or applying the product. They are intended for the Manufacturing Assembler or Operator.

Solder Type Board-to-Board Connectors

Standard Edge .050 Series PCI Connectors

Product Specification:
108-14034 Standard Edge .050 Series PCI Connector

Application Specification:
114-26012 Standard Edge .050 Series PCI Connector

Standard Edge .050 Series Connectors

Product Specification:
108-14034 Standard Edge .050 Series Connector

Application Specification:
114-26012 Standard Edge .050 Series Connector

Standard Edge II Connectors

Product Specification:
108-9039 Standard Edge II Connector

Low Profile Connectors

Product Specification:
108-9044 Low Profile Edge Connector

Instruction Sheet:
408-7772 Contact Replacement, Low Profile Edge Connector

Twin Leaf Mother Board Connectors

Product Specification:
108-9027 Twin Leaf Mother Board Connector

Instruction Sheets:
408-7479 Keying Plugs, Twin Leaf Mother Board Connector
408-7498 Connector Layout, Twin Leaf Mother Board Connector
408-7506 Card Guides, Twin Leaf Mother Board Connector

Rotary Cam ZIF Connectors

Product Specification:
108-9048 Rotary Cam PC Board Edge Connector

Instruction Sheet:
408-7911 Rotary Cam ZIF Connectors

Linear ZIF Connectors

Product Specifications:
108-14015 Linear ZIF PC Board Edge Connector, .100 [2.54] Centerline
108-26003 ACTION PIN Contacts

Application Specification:
114-26003 Linear ZIF PC Board Edge Connector, .100 [2.54] Centerline

Instruction Sheets:
408-2665 Linear ZIF, Carrier Removal Tool Series 265924
408-2995 Linear ZIF, Housing Wing Removal and Replacement Tool 266233-1
408-2999 Linear ZIF, T-Bar Insertion Tool Series 266267
408-6915 Linear ZIF, Housing Assembly Insertion Tool Series 313136
408-6916 Linear ZIF, T-Bar Insertion Tool Series 313139

Press-Fit Board-to-Board Connectors

AMP PACE Connectors

Product Specifications:
108-14019 AMP PACE Connector, .125 x .250 [3.18 x 6.35] Centerline
108-26003 ACTION PIN Contacts

Application Specification:
114-26002 AMP PACE Connector

Instruction Sheets:
408-2933 Contact Replacement Tool .100 x .200 [2.54 x 5.08] and .125 x .250 [3.18 x 6.35], AMP PACE Connector
408-2978 Seating Tool Ground Module, AMP PACE Connector
408-2979 Seating Tool Power Module, AMP PACE Connector
408-6726 Seating Tool, .156 x .200 [3.96 x 5.08] Part No. 59955, AMP PACE Connector
408-6727 Seating Tool, .125 x .125 [3.18 x 3.18] Part No. 59953, AMP PACE Connector
408-6881 Contact Replacement Tool .100 x .100 [2.54 x 2.54] with and without Scoops AMP PACE Connector
408-9058 Seating Tool .100 x .200 [2.54 x 5.08] with Card Scoops, Part No. 58150, AMP PACE Connector
408-9063 Seating Tool .125 x .250 [3.18 x 6.35] Part No. 58142, AMP PACE Connector
408-9067 Seating Tool .100 x .200 [2.54 x 5.08] Part No. 58140, AMP PACE Connector
408-9091 Accessories and Tooling, .100 x .200 [2.54 x 5.08] AMP PACE Connector
408-9119 Seating Tool, .125 x .250 [3.18 x 6.35] with Card Scoops, Part No. 58184, AMP PACE Connector
408-9186 Contact Replacement Tool; .100 x .200 [2.54 x 5.08], .125 x .125 [3.18 x 3.18], .125 x .250 [3.18 x 6.35] with Scoops, .156 x .200 [3.96 x 5.08], AMP PACE Connector
408-9188 Seating Tool .100 x .100 [2.54 x 2.54] Part No. 58200, AMP PACE Connector

ECONOMATE Connectors

Product Specification:
108-26002 ECONOMATE Connector

Instruction Sheet:
408-9091 Accessories and Tooling, .100 x .200 [2.54 x 5.08] AMP PACE Connector

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Technical Documents (Continued)

Wire-to-Board Connectors

Crimp Snap Twin Leaf Connectors

Product Specification:
108-9031 Crimp Snap Twin Leaf Connector (Bifurcated Contacts)

Application Specification:
114-9004 Contact, Twin Leaf Connector

Instruction Sheets:
408-7527 Accessories and Contacts, Crimp Snap Twin Leaf Connector
408-7529 Extraction Tool 91073-1
408-7531 Hand Tool 90268-1, Single Crimp, 28-24 AWG [0.08-0.2 mm^2] Wire
408-7551 Hand Tool 90264-1, Double Crimp, 22-20 AWG [0.3-0.6 mm^2] and 18 AWG [0.8-0.9 mm^2] Wire
408-7583 Hand Tool 90285-1, Double Crimp, 20-18 AWG [0.5-0.9 mm^2] and 16 AWG [1.25-1.4 mm^2] Wire
408-8547 CERTI-CRIMP II Straight Action Hand Tools

AMP-LEAF Connectors

Product Specifications:
108-9013 AMP-LEAF Connector
108-9043 AMP-LEAF Connector, Tin Plated Contacts

Application Specification:
114-9003 Contact, AMP-LEAF Connector

Instruction Sheets:
408-6951 Lubricant for tin plating, fretting, corrosion
408-7035 Retaining Spring 42973
408-7036 On-Contact Keying Plugs 480143 and 582756
408-7037 Accessories and Contacts, AMP-LEAF Connector
408-7045 Extraction Tool 465195
408-7068 Intercontact Keying Plug 582501
408-7339 Intercontact Keying Plug 583274
408-7419 Commoning Springs
408-7622 Hand Tool 90017-3, 22-20 AWG [0.3-0.6 mm^2], Two 22 AWG [0.3-0.4 mm^2] or One 18 AWG [0.8-0.9 mm^2] Wire
408-7623 Hand Tool 90028-3, 26-22 AWG [0.12-0.4 mm^2], Two 22 AWG [0.3-0.4 mm^2] Wires
408-7624 Hand Tool 90031-8, Two 18 AWG [0.8-0.9 mm^2] Wires
408-7626 Hand Tool 90101-3, 20 AWG [0.5-0.6 mm^2] or Two 20 AWG [0.5-0.6 mm^2] Wires

High Current Connectors

Product Specification:
108-9045 High Current Edge Connector

Application Specification:
114-9005 Contact, High Current Edge Connector

Instruction Sheets:
408-7782 Extraction Tool 91116-1, High Current Connector
408-7783 Die Inserts 90332-1 and 90332-2
408-7802 Die Inserts 90333-1 and 90333-2
408-9123 High Current Connectors

DUO-TYNE Flag Connectors

Product Specification:
108-9038 DUO-TYNE Flag Connector, Tapered Beam Contact

Application Specification:
114-9002 Contact, DUO-TYNE Flag Connector

Instruction Sheets:
408-7047 DUO-TYNE Flag Right-Angle Connector
408-7486 On-Contact Keying Plug 583661
408-7780 Hand Tool 90335-1, 18-16 AWG [0.8-1.4 mm^2] Wire
408-7848 Hand Tool 90027-4, 22-18 AWG [0.3-0.9 mm^2] Wire
408-7849 Hand Tool 90094-4, 26-22 AWG [0.12-0.4 mm^2] Wire

Printed Circuit Board Connector Hood Assemblies

Instruction Sheet:
408-7719 Printed Circuit Board Connector Hood Assemblies

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Part Number Cross Reference—Tyco Part Number to Acquired Part Number

All Tyco Electronic Part Numbers without a corresponding acquired Part Number are listed as base part numbers only. Complete part numbers (with prefixes and/or suffixes) are shown on the page(s) indicated.

Contact Engineering if no corresponding Tyco Number is available.

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Dimensions are in millimeters and inches unless otherwise specified. Values in bold are imperial equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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98231	1-1437266-1	150
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USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
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Part Number Cross Reference—Acquired Part Number to Tyco Part Number

Acquired Part Number	Tyco Part Number	Page Number
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A8D25DS29C2	7-1437269-1	43
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A8D25RA29E	7-1437269-7	46
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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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Part Number Cross Reference—Acquired Part Number to Tyco Part Number

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C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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Part Number Cross Reference—Acquired Part Number to Tyco Part Number

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C7D40DS29E4	—	37
C7D40PF29012	4-1437263-4	144
C7D40PF29013	4-1437263-5	144
C7D40PF29022	—	142
C7D40PF29023	4-1437263-6	142
C7D40PF29032	4-1437263-7	142
C7D40PF29033	—	142
C7D40PF29042	—	144
C7D40PF29043	4-1437263-8	144
C7D40PF29132	—	144
C7D40PF29133	—	144
C7D40PF29142	—	142
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C7D43DS29C1	3-1437274-9	36
C7D43DS29C3	4-1437274-0	36
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C7D50PF29023	—	142
C7D50PF29032	—	142
C7D50PF29033	5-1437263-3	142
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C7D50PF29043	5-1437263-4	144
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C7D50PF29133	—	144
C7D50PF29142	—	142
C7D50PF29143	5-1437263-7	142
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C8D06PF29043	1-1437260-5	140
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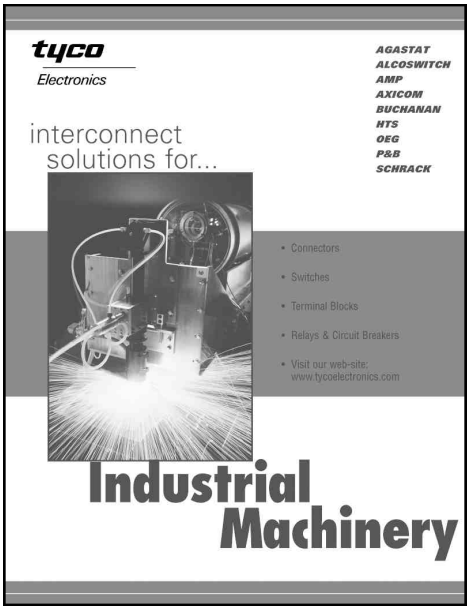
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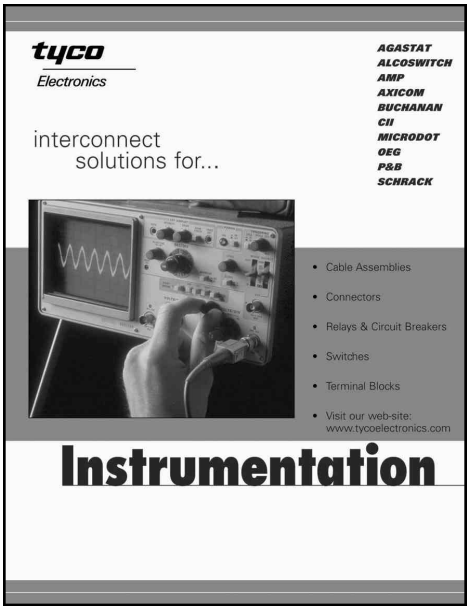
Brochure No. 889439 – Industrial Machinery

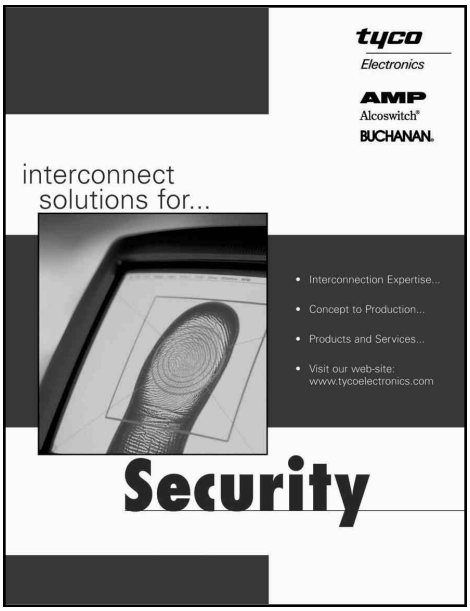
Brochure No. 1307285 – Instrumentation

Brochure No. 1308325 – Security

These brochures list catalog sources for connectors, switches, terminal blocks, relays, timers, circuit breakers, and cable assemblies available from Tyco Electronics.







Catalog 1654080
Issued 7-03

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in bold are imperial equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

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C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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Fax: +54-11-4733-2250

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Fax: +55-11-3611-0397

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Fax: +905-474-5520
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Fax: +905-474-5525

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Phone: +800-522-6752
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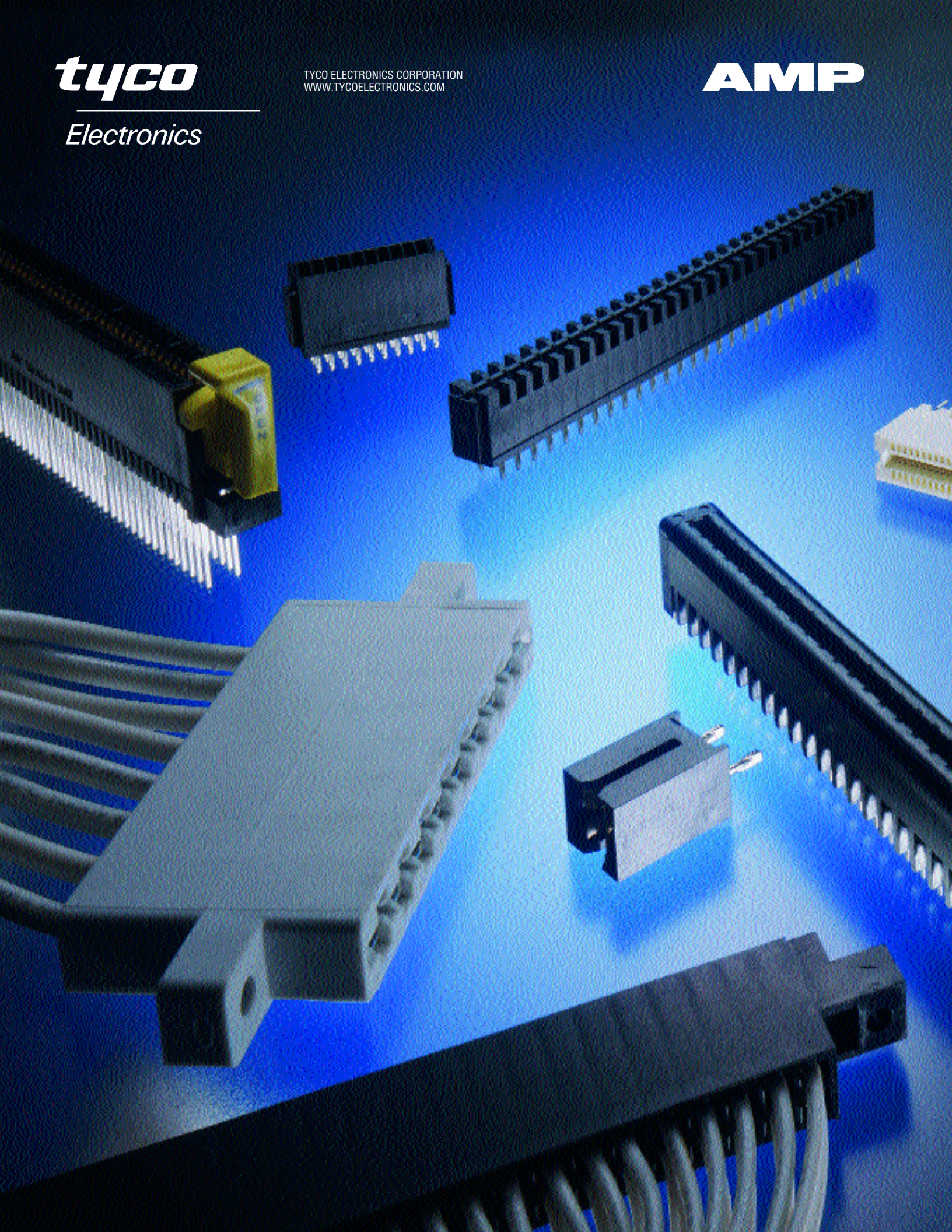
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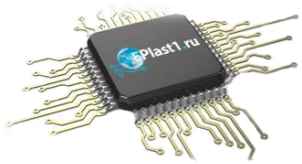
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