imall

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Card Edge Connectors Catalog 1654080 Issued 7-03



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Introduction

This catalog contains product descriptions of AMP Card Edge Connectors. These connectors are presented in three groups: Solder Type Board-to-Board, Press-fit Board-to-Board, and Wire-to-Board connectors. To assist you in the selection of the appropriate connector for your application, a selection guide is provided at the beginning of each section. See the Table of Contents on the following page for the exact location.

A comprehensive description and features of a particular printed circuit board connector family are provided at the beginning of that section. Various technical documents are referenced in the connector family sections and are listed and described at the rear of this catalog. The Tyco Electronics products presented in this catalog are designed and manufactured according to the highest possible standards of quality and craftsmanship. They offer optimum reliability at the lowest possible cost.

Need more information?

Call Technical Support at the numbers listed at the bottom of the catalog pages.

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Dimensioning:

Dimensions are in inches and millimeters unless specified otherwise. Values in brackets are metric equivalents. Metric symbols used are: m (meter) mm2 (square millimeter) kg (kilogram) C (Celsius) N (newton)

Note: Dimensions in this catalog are for reference purposes only. Customer drawings are available upon request.

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A copy of the certificate is available upon request



Catalog 1654080

Issued 7-03

2

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





Table of Contents

Solder Type Board-to-Board Connectors	
Introduction Selection Guide	
Standard Edge Series Connectors	7 10
Standard Edge .050 PCI Card Edge Connectors Standard Edge .050 Series Connectors	UI-/
Standard Edge II Connectors	
.	
Cantilever Beam Dip Solder Tails Overview	
.100" [2.54] Centerline	
.125" [3.18] Centerline	
Modified Bellows Contact Overview	
.100" [2.54] Centerline	
.125" [3.18] Centerline	
.156" [3.96] Centerline	
Polarization Keys	
Standard Daughter Card Layout	
Low Profile Connectors	
Twin Leaf Mother Board Connectors	
Rotary Cam ZIF Connectors	
Linear ZIF Connectors	83-96
Press-Fit Board-to-Board Connectors	
ACTION PIN Press-Fit Contacts	
AMP PACE Connectors	
TELEDENSITY Connectors	
ECONOMATE Connectors	
Cantilever Beam Press-Fit Connectors Overview	
.050" [1.27] High Density	
.100" [2.54] Centerline	
.125" [3.18] Centerline	
.156" [3.96] Centerline	
Application Tooling	
Wire-to-Board Connectors	
Introduction	
Selection Guide	
Crimp Snap Twin Leaf Connectors	
AMP-LEAF Connectors	
High Current Connectors DUO-TYNE Flag Connectors	
Printed Circuit Board Connector Hood Assemblies	181 183 181
Application Tooling	184 185
Technical Documents	
Part Number Index	
Tyco Electronics Related Product Information	

Dimensions are in inches and



Selection Guide, Board-to-Board Connectors

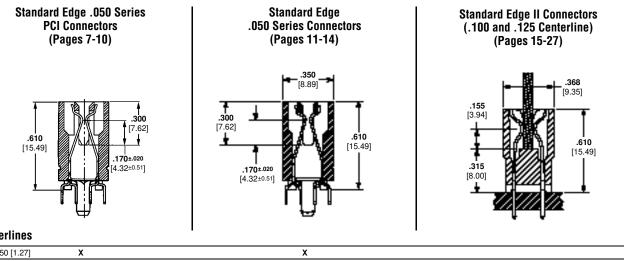
Introduction

Board-to-board (mother/ daughter board) connectors are ideally suited to backplane wiring or any other application requiring the circuit connection of one printed circuit board to another. Designed to shorten manufacturing time and reduce applied costs, these one-step, pre-assembled connectors are ready for mounting and mass insertion.

Many of the connectors are available with the proven and reliable ACTION PIN contact. This unique contact has superior electrical and physical characteristics that are top of the line in the industry.

Board-to-board connectors come in a range of contact centerline spacings of .050 [1.27] to .156 [3.96]. A wide range of dual position sizes and post styles are available. One family of connectors features zero insertion force of the daughter board, along with a choice of actuating devices. A variety of housing and contact materials further expands the choice of connectors available to meet many application requirements.

To help in choosing a connector for your application, a Selection Guide is provided on pages 4 through 6.



Centerlines

.050 [1.27]	Х	Х	
.100 [2.54]			X
.125 [3.18]			Х
.150 [3.81]			
.156 [3.96]			

Tail Styles

x
X
Х
X

4

Catalog 1654080 Issued 7-03

specified. Values in brackets www.tycoelectronics.com are metric equivalents.

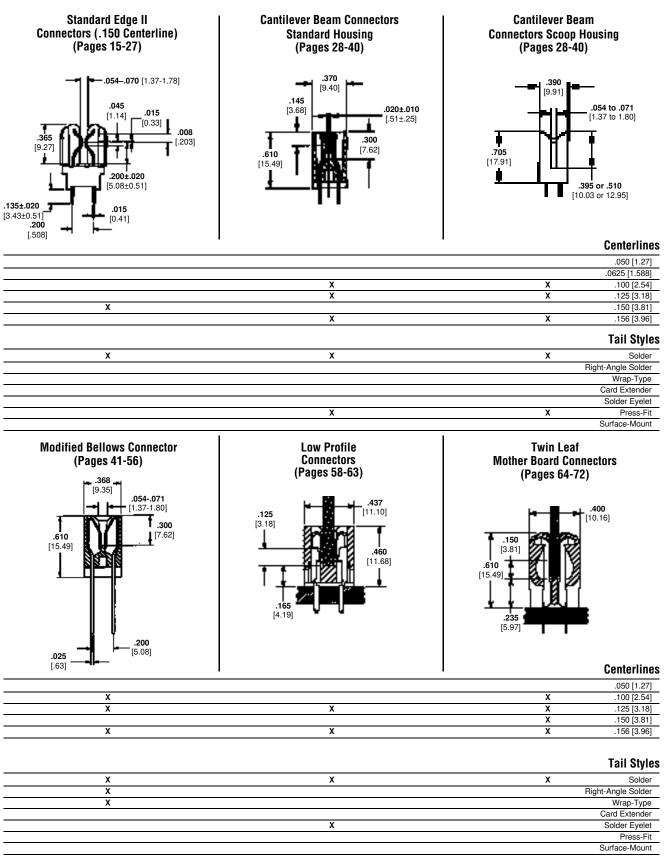
Dimensions are in inches and Dimensions are shown for millimeters unless otherwise reference purposes only. Specifications subject to change.

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Selection Guide, Board-to-Board Connectors (Continued)



Catalog 1654080 Issued 7-03

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

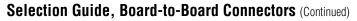
Dimensions are in inches and

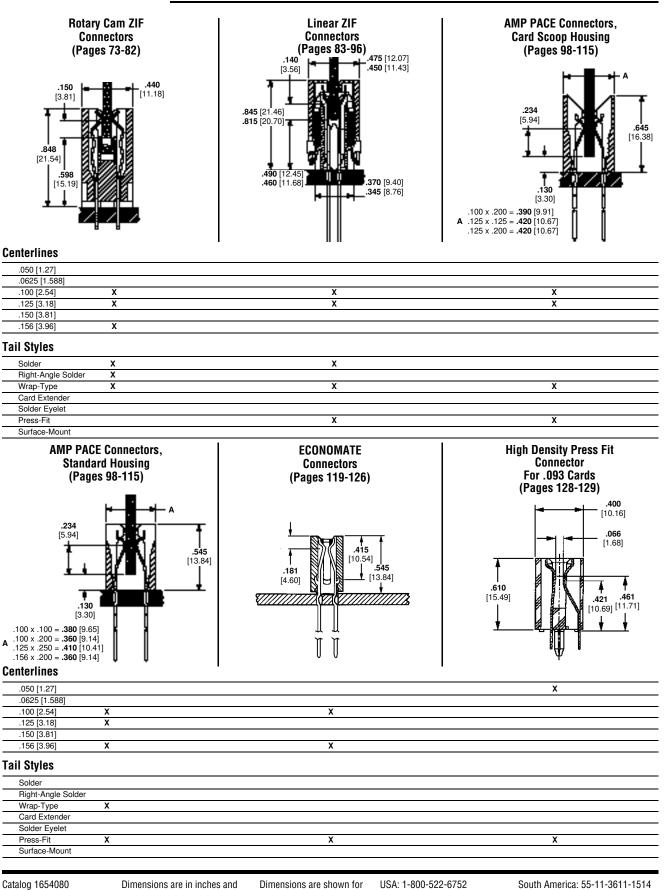
Dimensions are shown for reference purposes only. Specifications subject to change.

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6

millimeters unless otherwise specified. Values in brackets are metric equivalents.

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

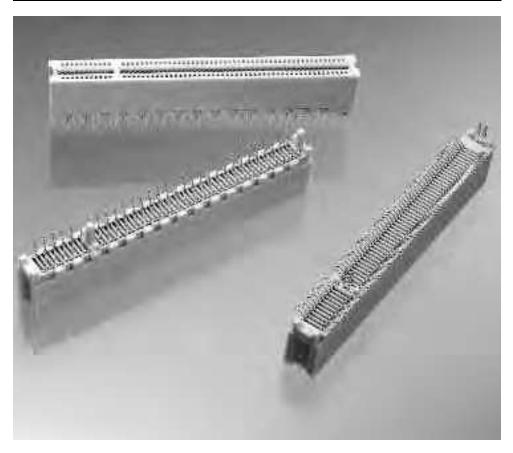
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425



Product Facts

- High density .050 [1.27] centerline contact spacing
- Easy mating of high circuit count daughter boards
- Polarizing web for positive board-to-connector registration
- Choice of plastic pylons or metal holddowns





Connectors that support PCI expansion cards are derived from those on the MicroChannel Architecture (MCA) bus. The MCA connectors are well defined and have proven value and reliability.

There are four connectors that can be used depending upon the PCI implementation. The differences between these connectors are 32 bit and 64 bit, and the 5 volt and 3.3 volt signaling environments. PCI-X is a version of PCI at 133 MHz which is under development and employs standard PCI connectors. PCI-X is limited to 1 slot versus 4 slots of PCI. A key differentiates the signaling environment voltages. The same physical connector is used for the 32 bit signaling environments. In one orientation, the key accepts 5 volt boards. When rotated 180°, the connector accepts 3.3 volt signaling boards. The pin numbering of the connector changes for the different signaling environments to maintain the same relative position of signals on the connector.

Performance Specifications:

Durability—Tested to 100 mating cycles

Mating Force—8 oz [2.22 N] max. per contact pair

Unmating Force—.5 oz [0.14 N] min. per contact pair

Contact Resistance—20 milliohms max. (initial) 30 milliohms max. (final) Insulation Resistance—

1000 megohms min.

Dielectric Withstanding Voltage— 500 VAC (at sea level)

Capacitance—2 picofarads max. Current Rating—1 ampere max.

Voltage Rating—203 VAC

Thermal Shock— -55°C to +85°C for 5 cycles

Mixed Flowing Gas—Class II with mated board for 20 days

Technical Documents:

Product Specification 108-14034

Application Specification 114-26012

Qualification Test Report 501-203

Hong Kong: 852-2735-1628

Japan: 81-44-844-8013

UK: 44-141-810-8967

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Card Edge Connectors (Solder Type Board-to-Board)

Plastic Pylons



Electronics

Standard Edge .050 Series PCI Card Edge Connectors

64 Bit, 5 Volt Signaling

92 Dual Positions with 3 Plastic Pylons or 3 Metal Holddowns

Material and Finish:

Solder Type Board-to-Board Connectors

Housing—High temperature thermoplastic 94V-0 rated, white

Contacts—Phosphor bronze, plated as follows:

Plating B—Duplex plated .000015 [0.00038] min. gold in contact area, .000100 [0.00254] min. tin-lead on solder tails, with entire contact underplated .000050 [0.00127] min. nickel

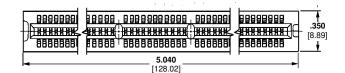
Plating C—Duplex plated .000030 [0.00076] min. gold in contact area, .000100 [0.00254] min. tin-lead on solder tails, with entire contact underplated .000050 [0.00127] min. nickel

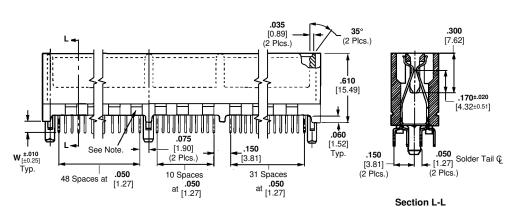
Related Product Data:

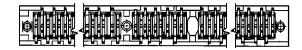
Performance Specificationspage 7

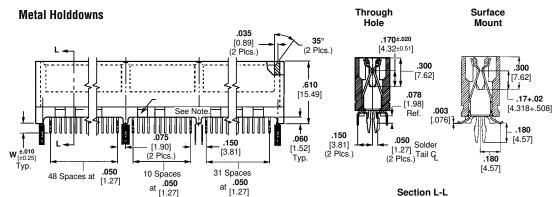
Technical Documents:

Product Specification 108-14034 **Application Specification** 114-26012









w	Contact		lumbers Volt
(Post Length)	Finish	3 Plastic Pylons	3 Metal Holddowns
.100	Plating B	145166-2	_
2.54	Plating C	145166-4	145169-4
.125 3.18	Plating C	145166-8	145169-8
Surface Mount	Plating C	_	145113-1

Notes: 1. Connectors are supplied with either cored (shown above) or solid side walls.

Other connector sizes can be made available, consult Tyco 2. Electronics.

8

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Card Edge Connectors (Solder Type Board-to-Board)



Electronics

32 Bit, 3.3 and 5 Volt Signaling

60 Dual Positions with 2 Plastic Pylons or 2 Metal Holddowns

Material and Finish:

Housing Y—High temperature thermoplastic 94V-0 rated, white

Housing Z-Nylon 6/6, white

Contacts—Phosphor bronze, plated as follows:

Plating A—Duplex plated gold flash in contact area, .000100 [0.00254] min. tin-lead on solder tails, with entire contact underplated .000050 [0.00127] min. nickel

Plating B—Duplex plated .000015 [0.00038] min. gold in contact area, .000100 [0.00254] min. tin-lead on solder tails, with entire contact underplated .000050 [0.00127] min. nickel

Plating C—Duplex plated .000030 [0.00076] min. gold in contact area, .000100 [0.00254] min. tin-lead on solder tails, with entire contact underplated .000050 [0.00127] min. nickel

Related Product Data:

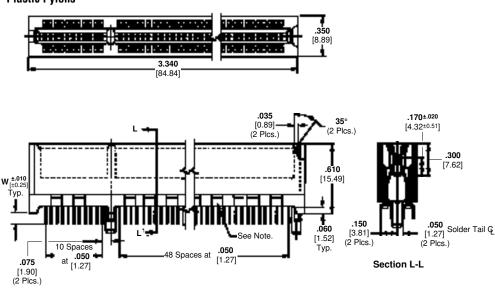
Performance Specifications—page 7

Technical Documents:

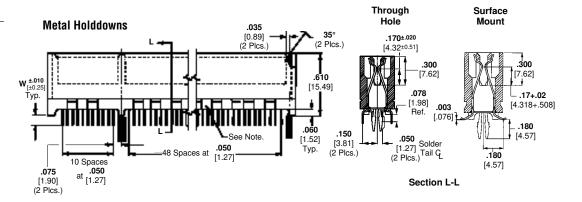
Product Specification 108-14034 Application Specification 114-26012

Standard Edge .050 Series PCI Card Edge Connectors

Plastic Pylons







W	Harraina	Contact	Part Nu	Imbers
(Post Length)	Housing Material	Finish	2 Plastic Pylons	2 Metal Holddowns
		Plating A	145154-1	145167-1
.100 2.54	Y	Plating B	145154-2	
2.54		Plating C	145154-4	145167-4
.118	7	Plating A	11299-1	_
3.00	L	Plating B	11299-6	
.125 3.18	Y	Plating C	145154-8	_
Surface Mount	Y	Plating C	_	145098-1

Notes: 1. Connectors are supplied with either cored (shown above) or solid side walls. 2. Other connector sizes can be made available, consult Tyco Electronics. Solder Type Board-to-Board Connectors

Catalog 1654080 Issued 7-03

specified. Values in bra www.tycoelectronics.com are metric equivalents.

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Standard Edge .050 Series PCI Card Edge Connectors

64 Bit, 3.3 Volt Signaling

92 Dual Positions with 3 Plastic Pylons or 3 Metal Holddowns

Material and Finish:

Housing—High temperature thermoplastic 94V-0 rated, white

Contacts—Phosphor bronze, plated as follows:

Plating B—Duplex plated .000015 [0.00038] min. gold in contact area, .000100 [0.00254] min. tin-lead on solder tails, with entire contact underplated .000050 [0.00127] min. nickel

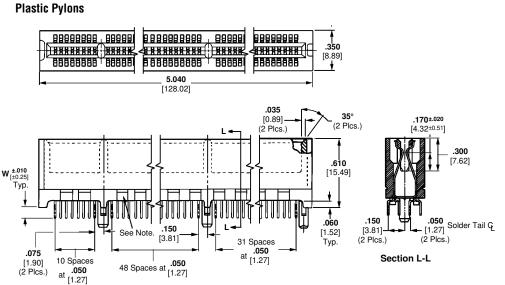
Plating C—Duplex plated .000030 [0.00076] min. gold in contact area, .000100 [0.00254] min. tin-lead on solder tails, with entire contact underplated .000050 [0.00127] min. nickel

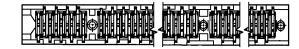
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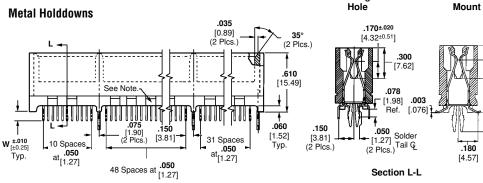
Performance Specificationspage 7

Technical Documents:

Product Specification 108-14034 **Application Specification** 114-26012







	0	Part Nu	
W (Post Length)	Contact Finish	3.3 3 Plastic Pylons	Volt 3 Metal Holddowns
.100 2.54	Plating B	_	145168-2
	Plating C	145165-4	145168-4
.125 3.18	Plating C	145165-8	_
Surface Mount	Plating C	_	145246-1

Notes: 1. Connectors are supplied with either cored (shown above) or solid side walls.

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

10

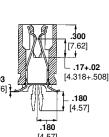
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South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967



Surface



Through



Product Facts

- High density .050 [1.27] centerline spacing of contacts
- Easy mating of high-circuit count daughter boards
- Compatible with infrared reflow (IR) soldering techniques
- Polarizing web for positive board-to-connector registration
- Choice of plastic pylons or metal holddowns
- Recognized under the Component Program of Underwriter Laboratories Inc.
 File No. E28476
- Certified by Canadian Standards Association, File No. LR 7189

Performance Specifications:

Contact Current Rating* —1 ampere

Termination Resistance – 20 milliohms max. (initial) 30 milliohms max. (final)

Dielectric Withstanding Voltage — 500 VAC min.

Insulation Resistance — 1000 megohms min. Mating Force — .5 oz. [0.14 N] per

contact pair

Unmating Force — 1 oz. [0.3 N] per contact pair

Durability (Tested to) — 100 mating cycles

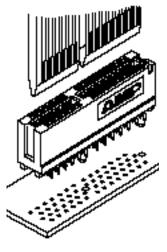
Application Temperature — +215°C for 120 seconds max.

Temperature Range — -55°C to +85°C

*Consult Tyco Electronicsengineering when paralleling contacts for power applications. The need to conserve space and pack more function into a given area has demanded that .050 [1.27] centerline spacing become a reality. AMP Standard Edge .050 Series connectors are the ideal vehicle for mother/daughter board applications requiring this real estate.

These rugged connectors have two rows of contacts on .050 [1.27] centerlines. Polarizing webs provide positive board-to-connector registration, while insertion force allows even high circuit-count daughter boards to mate easily. The connectors accept .054 to .070 [1.37 to 1.78] thick daughter boards and feature an overstress protected contact design. AMP Standard Edge .050 Series connectors are ideal for fast automated robotic assembly with registration features and dimensional tolerancing for more accurate pickup and placement, and are packaged in roboticscompatible trays.

Plastic guide posts or metal holddowns align the connector with the mother board and retain it for soldering. To make circuit routing easy, connector solder posts are arranged in a four-row .100 [2.54] staggered grid. Hightemperature tolerant materials promote that these connectors withstand infrared reflow (IR) soldering, while standoffs ease flux cleaning.

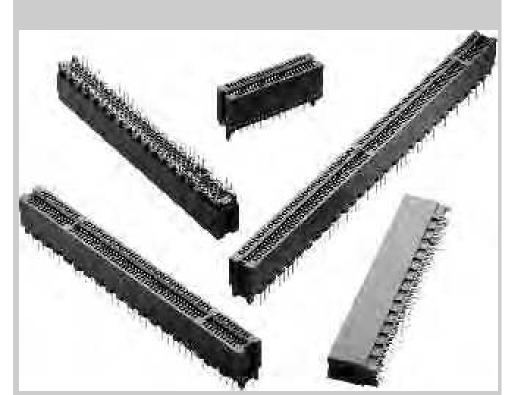


High Density for DataBus Applications

Standard Edge .050 Series Connectors

Card Edge Connectors

(Solder Type Board-to-Board)



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Configuration; 1 Key—2 Plastic Pylons

Material and Finish:

Housing—High temperature thermoplastic, brown

Contacts—Phosphor bronze, duplex plated .000030 [0.00076] min. gold in contact area, .000100 [0.00254] min. tin-lead on solder tails, with entire contact underplated .000050 [0.00127] min. nickel

Related Product Data:

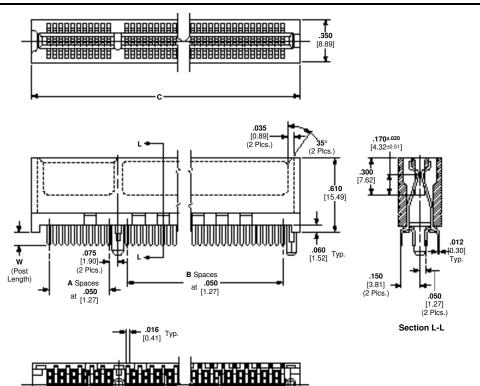
Performance Specifications page 11

Technical Documents:

Product Specification

108-14034 Application Specification 114-26012

Standard Edge .050 Series Connectors



No. of		Dimension	s	W	PC Board	Connector			
Dual – Positions	Α	В	С	(Post Length)	Hole Layout	Part Numbers			
23	10	11	1.490 37.85	.100 2.54	А	650090-7			
30	10	18	1.840 46.74	.100 2.54	В	650090-6			
40	10	28	2.340	.100 2.54	В	650090-3			
40	10		20	20 5	59.44	59.44	59.44	.140 3.56	В
45	10	33	2.590 65.79	.100 2.54	А	650090-2			
56	10	44	3.140	.100 2.54	В	650090-1 ¹			
50	oo 10 44	44	79.76	.140 3.56	В	650181-1			
80	37	41	4.340 110.24	.100 2.54	С	650090-9			
01	91 41 48 4.890 124.21	4.890	.100 2.54	А	650092-1 ²				
91		.140 3.56	А	650092-2					

¹ Connector used for VLLocal Bus and MCA Bus applications.

² Connector used for MCA Bus applications.

Notes: 1. Other connector sizes can be made available, consult Tyco Electronics.

2. .125 [3.18] post length is available, consult Tyco Electronics.

12

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Configuration;

plastic, brown

min. nickel

page 11

108-14034

114-26012

Material and Finish:

tin-lead on solder tails, with entire

Related Product Data: Performance Specifications-

Technical Documents:

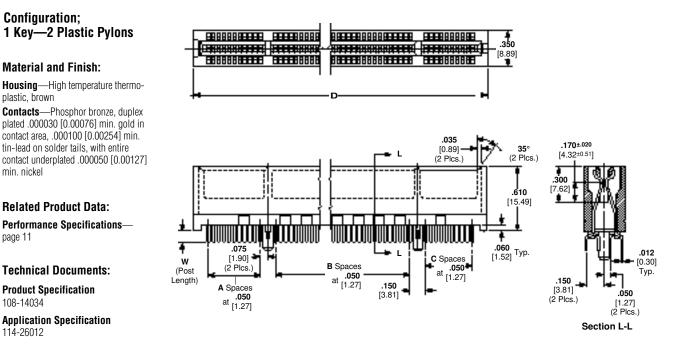
Application Specification

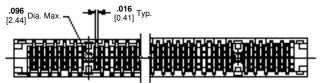
Product Specification

Card Edge Connectors (Solder Type Board-to-Board)



Standard Edge .050 Series Connectors





No. of	Dimensions			ons W		PC Board	Connector
Dual - Positions	Α	В	С	D	(Post Length)	Hole Layout	Part Numbers
66	10	44	9	3.740	.100 2.54	А	650091-1*
00	10	44	9	95.00	.140 3.56	А	650091-2

*Connectors used for MCA Bus applications.

Notes: 1. Other connector sizes can be made available, consult Tyco Electronics.

2. .125 [3.18] post length is available, consult Tyco Electronics.

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Configuration; 1 Key/1 Web —3 Metal Holddowns

120 Dual Positions

Material and Finish:

Housing—High temperature thermoplastic, brown

Holddowns—Brass, plated .000150 [0.00381] min. tin-lead over .000050 [0.00127] min. nickel

Contacts—Phosphor bronze, duplex plated .000030 [0.00076] min. gold in contact area, .000100 [0.00254] min. tin-lead on solder tails, with entire contact underplated .000050 [0.00127] min. nickel

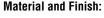
Related Product Data:

Performance Specifications page 11

Technical Documents:

Product Specification 104-14034 Application Specification

114-26012



Housing—High temperature thermoplastic, brown

Contacts—Phosphor bronze, duplex plated .000030 [0.00076] min. gold in contact area, .000100 [0.00254] min. tin-lead on solder tails, with entire contact underplated .000050 [0.00127] min. nickel

Related Product Data:

Performance Specifications page 11

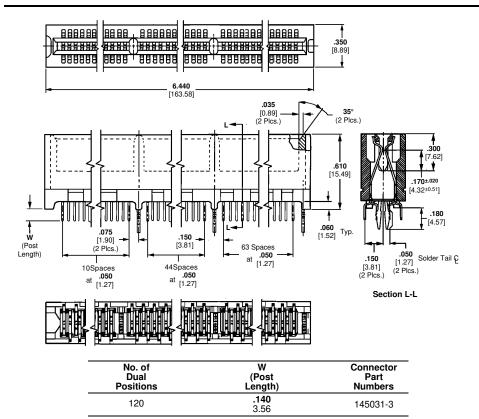
Technical Documents:

Product Specification 108-14034 Application Specification 114-26012



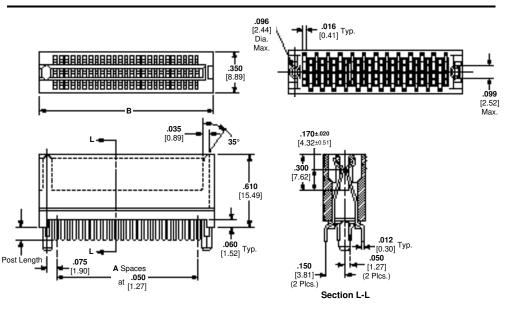
Card Edge Connectors

(Solder Type Board-to-Board)



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

Configuration; End Key



No. of	_	Dime	ensions	Deat	0		
Dual Positions	Α	В	С	D	Post Length	Connector Part Numbers	
25	24	1.480 37.59	1.350 34.29	1.310 33.27	.100 2.54	650719-1	

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

14

Catalog 1654080 Issued 7-03

www.tycoelectronics.com specified. Values in brackets are metric equivalents.

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



Product Facts

- Maximum number of dual positions .100 [2.54] Centerlines-70, .125 [3.18] Centerlines-50, .150 [3.81] Centerlines-31
- Selective gold plating of contacts for high performance at low cost
- .025 [0.64] square solid posts meet standard wraptype specifications
- For flow solder applications
- Glass-filled polyester
- housing is 94V-0 rated ■ Accepts double sided PC boards, .054-.070 [1.27-1.78] thick
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association, File No. LR 7189

Performance Specifications

Contact Rating*: 3 amperes continuous (UL and CSA)

Contact Resistance: 10 milliohms max.

Operating Temperature: -55°C to +85°C

Voltage Rating (Sea Level): .100 [2.54] centerline—1000 VAC (test) .125 [3.18] centerline—1500 VAC (test) .150 [3.81] centerline—1500 VAC (test)

Insulation Resistance: 5000 megohms min., after exposure to humidity

Vibration Tolerance: 10 to 500 hertz

Contact Engagement Force: 12 oz [3.3 N] average per pair with .062 [1.57] PC board

Contact Separation Force: 2 oz [0.6 N] average per pair with .062 [1.57] PC board

Humidity Tolerance: 90%-95% for 96 hours





AMP Standard Edge II Connectors provide high reliability and economy in packages compatible with industry standards for double sided printed circuit boards.

Tyco Electronics offers Standard Edge II Connectors with or without mounting ears, for rack mounting and soldering. Contacts are arranged on .100 [2.54] centers, .125 [3.18] centers, .150 [3.81] centers, .200 [5.08] row-to-row; and .250 [6.35] row-to-row. Right-angle connectors are also available with contacts arranged on .100 [2.54] centers, .150 [3.81] row-to-row or .200 [5.08] row-to-row.

Card extenders with contacts on .100 [2.54] and .125 [3.18] centers also are available. Precision formed phosphor bronze contacts are selectively gold plated. Phosphor bronze has excellent strength characteristics which help the connector absorb load deflection movement of a PC board while maintaining sufficient contact force for good electrical connection. Bifurcated cantilever beam contacts provide redundant contact.

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

Catalog 1654080 Issued 7-03

www.tycoelectronics.com are

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



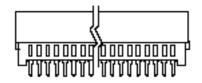
Card Edge Connectors (Solder Type, Board-to-Board)



Electronics

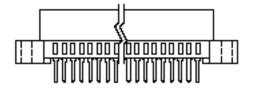
Standard Edge II Connectors Styles

.100 [2.54] and .125 [3.18] Centerline Solder Posts without Mounting Ears Pages 17 and 18



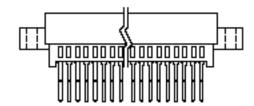


.100 [2.54] and .125 [3.18] Centerline Solder Posts with Low and Mid-High Mounting Ears Page 20



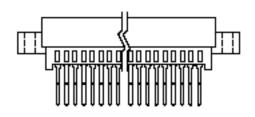


.100 [2.54] and .125 [3.18] Centerline Wrap-Type Posts with Mid-High Mounting Ears Page 21



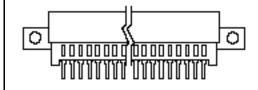


.100 [2.54] and .125 [3.18] Centerline Card Extenders Page 22

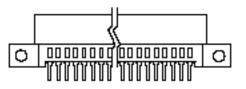




.100 [2.54] Centerline Right-Angle Posts with Low and No Mounting Ears Page 23



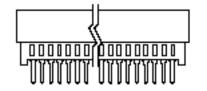






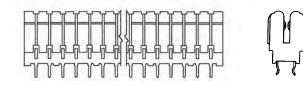


.100 [2.54] Centerline Solder Posts with Board **Retention Feature, without Mounting Ears** Page 24





.150 [3.81] Centerline Solder Posts (with Board Retention Feature), without Mounting Ears Page 19



16

Issued 7-03

Catalog 1654080

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

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



.100 [2.54] Centerline, Vertical Solder Posts. Without Mounting Ears

Material and Finish:

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

Contacts—Phosphor bronze, duplex plated as follows:

Plating A-.000030 [0.00076] gold in contact area, tin on posts, with entire contact nickel underplated

Plating B-.000015 [0.00038] gold in contact area, tin on posts, with entire contact nickel underplated

Plating C-Gold flash in contact area, tin on posts, with entire contact nickel underplated

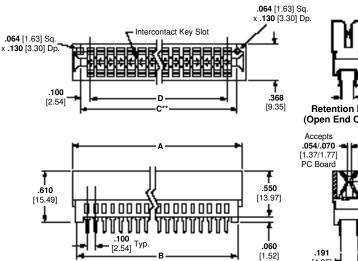
Technical Documents:

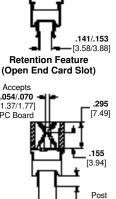
Intercontact Keying Plug

Part Number 650025-2 (.100 [2.54] Centerline)

Product Specification 108-9039

Material: Natural color polyester





[4.85]

Length

No. of Dual		Dimer	nsions		Post		Part Numbers	
Positions	Α	В	C**	D	Length*	Plating A	Plating B	Plating C
3	.560 14.22	.450 11.43	Open End	.200 5.08	.125	650263-11	_	_
6	.860 21.84	.750 19.05	. 700 17.78	.500 12.70	.125 .187	7-530843-5 7-530843-6	—	_
10	1.260 32.00	1.150 29.21	1.100 27.94	.900 22.86	.125 .187	5-530843-0 4-530843-9	—	_
12	1.460 37.08	1.350 34.29	1.300 33.02	1.100 27.94	.125	530843-1	—	_
15	1.760 44.70	1.650 41.91	1.600 40.64	1.400 35.56	.125	530843-2	—	_
17	1.960 49.78	1.850 46.99	1.800 45.72	1.600 40.64	.125	5-530843-3	_	_
18	2.060 52.32	1.950 49.53	1.900 48.26	1.700 43.18	.125	530843-3	2-530843-7	176137-1
20	2.260 57.40	2.150 54.61	2.100 53.34	1.900 48.26	.125	5-530843-4	—	_
22	2.460 62.48	2.350 59.69	2.300 58.42	2.100 53.34	.125	530843-4	_	_
25	2.760 70.10	2.650 67.31	2.600 66.04	2.400 60.96	.125	530843-5	_	_
28	3.060 77.72	2.950 74.93	2.900 73.66	2.700 68.58	.125	530843-6	_	_
30	3.260 82.80	3.150 80.01	3.100 78.74	2.900 73.66	.125 .187	530843-7 1-530843-8	_	_
31	3.360 85.34	3.250 82.55	3.200 81.28	3.000 76.20	.125	6-530843-5	7-530843-0	_
36	3.860 98.04	3.750 95.25	3.700 93.98	3.500 88.90	.125	530843-8	—	-
40	4.260 108.20	4.150 105.41	4.100 104.14	3.900 99.06	.187	2-530843-0	_	_
50	5.260 133.60	5.150 130.81	5.100 129.54	4.900 124.46	.125	1-530843-1	_	_

*Metric equivalent for post lengths are .125 = 3.18; .187 = 4.75.

**C dimension is card slot length.

Card Edge Connectors

(Solder Type, Board-to-Board)

Standard Edge II Card Edge Connectors

¹ Connectors with Retention Feature.

Notes: 1. Other connector sizes can be made available, consult Tyco Electronics. 2. High temperature IR reflow compatible connectors can be made available, consult Tyco Electronics.

Catalog 1654080 Issued 7-03

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



.125 [3.18] Centerline, Vertical Solder Posts, Without Mounting Ears

Material and Finish:

Solder Type Board-to-Board Connectors

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

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

Related Product Data:

Performance Specificationspage 15

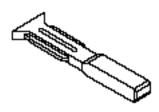
PC Board Hole Layout—page 26 PC Board Edge Pattern—page 27 Special Application—page 96

Technical Documents:

(pages 186, 187): 108-9039

Intercontact Keying Plug Material:

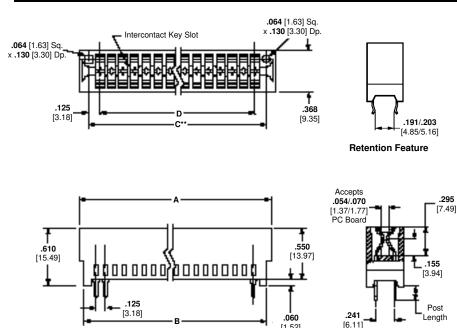
Natural color polyester



Part No. 650025-1 (.125 [3.18] Centerline)



Standard Edge II Connectors (Continued)



No. of		Dim		Post	B	
Dual Positions	Α	В	C**	D	Length*	Part Numbers
6	1.035 26.29	.875 22.22	.875 22.22	.625 15.88	.125	650207-11
14	2.035 51.69	1.875 47.62	1.875 47.62	1.625 41.28	.187	5-530844-8
18	2.535 64.39	2.375 60.33	2.375 60.33	2.125 53.98	.187	1-530844-5
22	3.035 77.09	2.875 73.03	2.875 73.03	2.625 66.68	.187	1-530844-6
28	3.785 96.14	3.625 92.08	3.625 92.08	3.375 85.73	.187	1-530844-7
30	4.035 102.49	3.875 98.42	3.875 98.42	3.625 92.08	.187	1-530844-8
36	4.785 121.54	4.625 117.48	4.625 117.48	4.375 111.13	.187	1-530844-9
40	5.285 134.24	5.125 130.18	5.125 130.18	4.875 123.82	.187	2-530844-0
43	5.660 143.76	5.500 139.70	5.500 139.70	5.250 133.35	.125	1-530844-0
50	6.535 165.99	6.375 161.93	6.375 161.93	6.125 155.58	.125 .187	1-530844-1 2-530844-2

[1.52]

*Metric equivalent for post lengths are .125 = [3.18]; .187 = [4.75]

**C dimension is card slot length.

¹Connector with Retention Feature.

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

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

Product Specification



.150 [3.81] Centerline, Vertical Solder Posts, Retention Feature, Without Mounting Ears

Material and Finish:

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

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

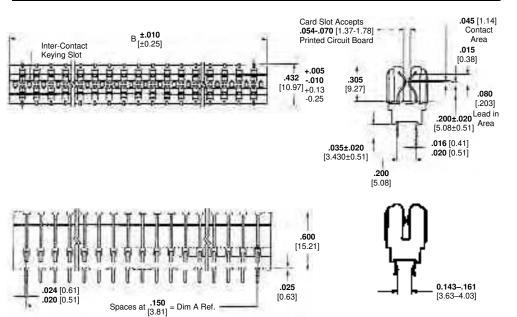
Related Product Data:

Performance Specifications page 15

PC Board Hole Layout—page 26 PC Board Edge Pattern—page 27 Special Application—page 96



Standard Edge II Connectors (Continued)



No. of	Dimer	isions	Retention	Post	Part
Dual Positions	Α	В	Location	Length*	Numbers
12	1.650 41.91	1.920 48.77	7-10, 15-18	.135	1-650728-2
19	2.700 68.58	2.970 75.44	7-10, 29-32	.135	1-650728-9
28	4.050 102.87	4.320 109.73	7-10, 25-32,47-50	.135	2-650728-9
31	4.500 114.30	4.770 121.16	7-10, 27-34,53-56	.135	3-650728-1

*Metric equivalent for post length is .135 = [3.43]

**C dimension is card slot length.

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

Solder Type Board-to-Board Connectors

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



.100 [2.54] and .125 [3.18] **Centerline**, Vertical Solder Posts, Low and Mid-High **Mounting Ears**

Material and Finish:

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

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

Related Product Data:

Performance Specificationspage 15

PC Board Hole Layout—page 26 PC Board Edge Pattern—page 27 Special Application—page 96

Technical Documents:

(pages 186, 187):

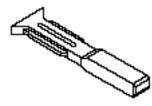
Product Specification 108-9039

Intercontact Keying Plugs Material:

Natural color polyester



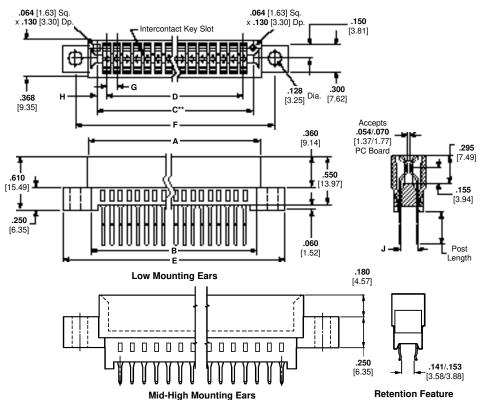
Part No. 650025-2 (.100 [2.54] Centerline)



Part No. 650025-1 (.125 [3.18] Centerline)



Standard Edge II Connectors (Continued)



.100 [2.54] Centerline

No. of				D	imension	S				Post	Part
Dual Positions	Α	В	C**	D	E	F	G	н	J	Length*	Numbers
15	1.760 44.70	1.650 41.91	1.600 40.64	1.400 35.56	2.385 67.18	2.075 52.71	.100 2.54	.100 2.54	.191 4.85	.125	530841-2
18	2.060 52.32	1.950 49.53	1.900 48.26	1.700 43.18	2.645 67.18	2.375 60.32	.100 2.54	.100 2.54	.191 4.85	.125	530841-3
25	2.760 70.10	2.650 67.31	2.600 66.04	2.400 60.96	3.345 84.96	3.075 78.11	.100 2.54	.100 2.54	.191 4.85	.125 .187	530841-5 1-530841-6
30	3.260 82.80	3.160 80.01	3.100 78.74	2.900 73.66	3.845 97.66	3.575 90.81	.100 2.54	.100 2.54	.191 4.85	.187	1-530841-8
36	3.860 98.04	3.750 95.25	3.700 93.98	3.500 88.90	4.445 112.90	4.175 106.21	.100 2.54	.100 2.54	.191 4.85	.125	530841-8
50	5.260	5.150	5.100	4.900	5.845	5.575	.100	.100	.191 4.85	.125 .187	1-530841-1 2-530841-2
50	133.60	130.81	129.54	124.46	148.46	141.60	2.54	2.54	.141153 3.58-3.88	.125	650718-11,2

*Metric equivalent for post lengths are .125 = [3.18]; .187 = [4.75]

**C dimension is card slot length.

¹Connector with Retention Feature.

²Connector with Mid-High Mounting Ears.

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

.125 [3.18] Centerline

No. of				Post	Part						
Dual Positions	Α	В	C**	D	Е	F	G	н	J	Length*	Numbers
6	1.035 26.29	.875 22.22	.875 22.22	.625 15.88	1.555 39.50	1.295 32.89	.125 3.18	.125 3.18	.241 6.11	.125	1-531341-3
28	3.785	3.505	3.625	3.375	4.305	4.045	.125	.125	.241 6.11	.187	1-530842-7
20	96.14	89.03	92.08	85.73	109.35	102.74	3.18	3.18	.241 6.11	.187	3-531341-0 ²
50	6.535 165.99	6.255 158.88	6.375 161.93	6.125 155.58	7.055 179.20	6.795 172.59	.125 3.18	.125 3.18	.241 6.11	.125	1-530842-1

*Metric equivalent for post lengths are .125 = [3.18]; .187 = [4.75]

**C dimension is card slot length.

¹Connector with Retention Feature.

²Connector with Mid-High Mounting Ears.

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

20

Catalog 1654080 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

Issued 7-03



Card Edge Connectors (Solder Type, Board-to-Board)



Standard Edge II Connectors (Continued)



Material and Finish:

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

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

Related Product Data:

Performance Specifications page 15 PC Board Hole Layout—page 26 PC Board Edge Pattern—page 27 Special Application—page 96

Technical Documents:

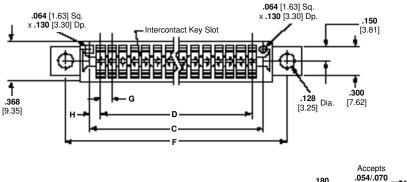
(pages 186, 187): Product Specification 108-9039

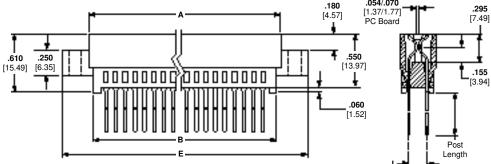
Intercontact Keying Plugs

Material:

Natural color polyester

Part No. 650025-2 (.100 [2.54] Centerline)





.100 [2.54] Centerline

No. of				Di	mensior	IS				Post	Part
Dual Positions	Α	В	C**	D	Е	F	G	Н	J	Length*	Numbers
30	3.260 82.80	3.150 80.01	3.100 78.74	2.900 73.66	3.845 97.41	3.575 90.80	.100 2.54	.100 2.54	.200 5.08	.570	3-530396-3
36	3.860 98.04	3.750 95.25	3.700 93.98	3.500 88.90	4.435 112.65	4.175 106.04	.100 2.54	.100 2.54	.200 5.08	.570	3-530396-4
40	4.260 108.20	4.150 105.41	4.100 104.14	3.900 99.06	4.845 123.06	4.575 116.21	.100 2.54	.100 2.54	.200 5.08	.570	3-530396-4

*Metric equivalent for post length is **.570** = [14.48].

**C dimension is card slot length.

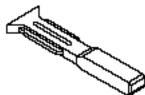
Note: Other connector sizes can be made available, consult Tyco Electronics.

.125 [3.18] Centerline

_	No. of				Di	mensior	ıs	
	Dual Positions	Α	В	C**	D	Е	F	G
	22	3.035 77.09		2.875 73.02			3.295 83.69	.125 3.18
\searrow	*Metric equiva	alent for p	oost leng	th is .570) = [14.4	8].		

**C dimension is card slot length.

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



Part No. 650025-1 (.125 [3.18] Centerline)

Catalog 1654080 Issued 7-03

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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

Post

Length*

.570

н

.125 3.18 J

.250 6.35 Part Numbers

4-530825-5



.100 [2.54] and .125 [3.18] **Centerlines, Card Extender** Contacts

Material and Finish:

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

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

Related Product Data:

Performance Specificationspage 15

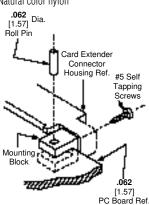
PC Board Hole Layout—page 26 PC Board Edge Pattern—page 27

Technical Documents:

(pages 186, 187): Product Specification 108-9039

Mounting Block Material:

Natural color nylon

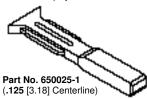


Kit Part No.531250-4 Each kit includes 2 mounting blocks, 2 self tapping screws, #5 x .437 [11.10] and 2 roll pins, .075 x .250 [1.57 x 6.35]

Intercontact Keying Plugs

Material:

Natural color polyester



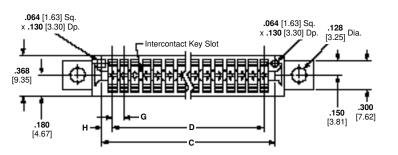


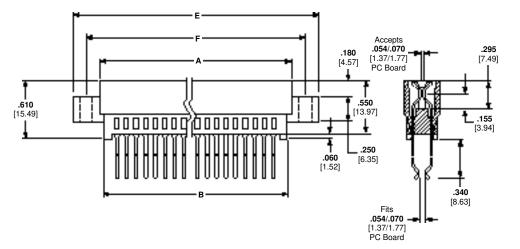
(.100 [2.54] Centerline)

Catalog 1654080 Issued 7-03

Card Edge Connectors (Solder Type, Board-to-Board)

Standard Edge II Connectors (Continued)





.100 [2.54] Centerline

No. of				Dimens	sions				Dent Numbere
Dual Positions	Α	В	C**	D	E	F	G	Н	Part Numbers
50	5.260 133.60	5.160 130.81	5.100 129.54	4.900 124.46	5.845 148.46	5.575 141.60	.100 2.54	.100 2.54	530826-3
50 * C dimension i	133.60	130.81							530

1No mounting ears.

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

.125 [3.18] Centerline

No. of Dual				Dimens	ions				Part Numbers
Positions	Α	В	C**	D	E	F	G	н	Part Numbers
36	4.785 121.54	4.505 114.43	4.625 117.48	4.375 111.13	5.035 134.75	5.045 128.14	.125 3.18	.125 3.18	530384-2

*C dimension is card slot length.

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

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

22

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Part Number 650025-2

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



.100 [2.54] Right-Angle Solder Posts, with Low and **No Mounting Ears**

Material and Finish:

Housing-Black glass-filled polyester, 94V-0 rated Contacts—Phosphor bronze, duplex plated as follows: Plating A-000030 [0.00076] gold in contact area, tin on posts, with entire contact nickel underplated Plating B-000015 [0.00038] gold in contact area, tin on posts, with entire contact nickel underplated

Related Product Data:

Performance Specificationspage 15

Technical Documents:

Product Specification 108-9039

Intercontact Keying Plug Material:

Natural color polyester



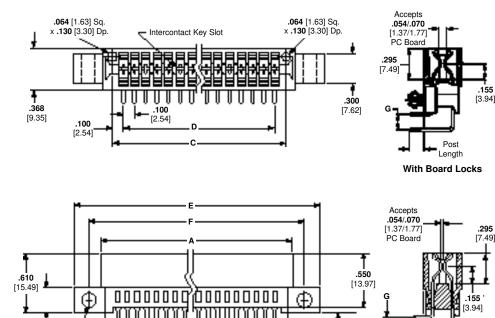
Part Number 650025-2 (.100 [2.54] Centerline)





Post Length

Standard Edge II Card Edge Connectors



Low Mounting Ears

Low Mounting Ears

.128 [3.25] Dia

.250

[6.25]

No. of			0	Dimensio	ns			Post	Part Numbers
Dual Positions	Α	В	C*	D	E	F	G1	Length ²	(Plating A)
12	1.460 37.08	1.350 34.29	1.300 33.02	1.100 27.94	2.045 51.94	1.775 45.08	.100x .150	.090	145089-1 ³
18	2.060 52.32	1.950 49.53	1.900 48.26	1.700 43.18	2.645 67.18	2.375 60.32	.100x .150	.090	645384-1
20	2.260 57.40	2.150 54.61	2.100 53.34	1.900 48.26	2.845 72.30	2.575 65.40	.100x .150	.090	645384-3

.080.

[1.82]

*C dimension is card slot length.

¹ Metric equivalent for .100 x .150 and .100 x .200 are [2.54 x 3.81] and [2.54 x 5.08].

² Metric equivalent for post length is .090 = [2.27].

³ Connector with Board Locks.

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

No Mounting Ears

No. of Dual			Dimens	ions		Post	Part N	umbers
Positions	Α	В	C*	D	G1	Length ²	Plating A	Plating B
15	1.760 44.70	1.650 41.91	1.600 40.64	1.400 35.56	.100x .150	.090	650118-1	_
17	1.960 49.78	1.850 46.99	1.800 45.72	1.600 40.64	.100x .200	.090	650187-1	—
25	2.760 70.10	2.350 67.61	2.600 66.04	2.400 60.96	.100x .150	.090	_	532600-2
31	3.360 85.34	3.250 82.55	3.200 81.28	3.000 76.20	.100x .150	.090	—	532600-4
32	3.460 87.88	3.350 85.09	3.300 83.82	3.100 78.74	.100x .150	.090	—	532600-5
19	2.160 54.86	2.750 69.85	2.700 68.58	1.800 45.72	.100x .150	.090	_	532600-6

*C dimension is card slot length.

¹ Metric equivalent for .100 x .150 and .100 x .200 are [2.54 x 3.81] and [2.54 x 5.08].

² Metric equivalent for post length is .090 = [2.27].

2. High temperature IR reflow compatible connectors can be made available, consult Tyco Electronics.

Catalog 1654080

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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.

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South America: 55-11-3611-1514 Hong Kong: 852-2735-1628

Japan: 81-44-844-8013

UK: 44-141-810-8967

Notes: 1. Other connector sizes can be made available, consult Tyco Electronics.



.100 [2.54] Centerline Vertical Solder Posts. **Retention Feature**, Without Mounting Ears

Material and Finish:

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

Contacts—Phosphor bronze, duplex plated as follows:

Plating A-.000030 [0.00076] gold in contact area, tin on posts, with entire contact nickel underplated

Plating B-.000015 [0.00038] gold in contact area, tin on posts, with entire contact nickel underplated

Plating C—Gold flash in contact area, tin on posts, with entire contact nickel underplated

Technical Documents:

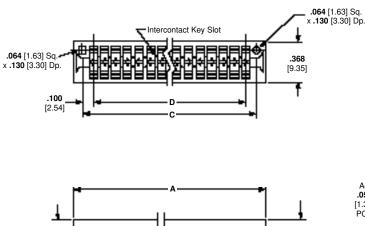
Product Specification 108-9039

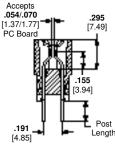
.610 [15.49]

Π



Standard Edge II Card Edge Connectors





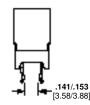
Intercontact Keying Plug Material:

Natural color polyester



Part Number 650025-2 (.100 [2.54] Centerline)

	.550 [13.97]
.100 [2.54] Typ.	.060 [1.52]



Retention Feature

No. of	Dimensions				Post	Retention	PartNumbers
Dual Positions	s A B C** D Length		Length*	Feature	Plating A		
18	2.060 52.32	1.950 49.53	1.900 48.26	1.700 43.18	.125	3-6, 31-34	645235-4
31	3.360 85.34	3.250 82.55	3.200 81.28	3.000 76.20	.125	3-6, 29-32 or 31-34, 57-60	645235-1
50	5.260 133.60	5.150 130.81	5.100 129.54	4.900 124.46	.125	3-6, 49-52, 95-98	645235-3
60	6.260 159.00	6.150 156.21	6.100 154.94	5.900 149.86	.125	3-6, 55-58, 63-66, 115-118	645235-8

*Metric equivalent for post length is **.125** = [3.18]. ****C** dimension is card slot length.

Notes: 1. Other connector sizes can be made available, consult Tyco Electronics. 2. High temperature IR reflow compatible connectors can be made available, consult Tyco Electronics.

24

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



.100 [2.54] Centerline, Special 18/31 Dual Combination Connector, Vertical Solder Posts, Without Mounting Ears

Material and Finish:

Housing—Black glass-filled polyester, 94V-0 rated, except where noted Contacts—Phosphor bronze, plated with .000030 [0.00076] gold in contact area (except where noted), tin on posts, with entire contact nickel underplated

Technical Documents:

Product Specification 108-9039

Intercontact Keying Plug

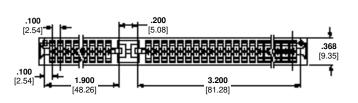
Material:

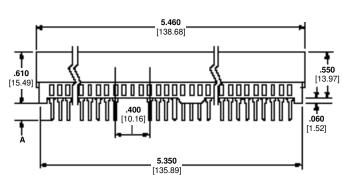
Natural color polyester



Part Number 650025-2 (.100 [2.54] Centerline)

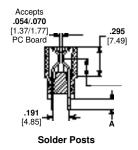








Retention Feature



No. of Dual Positions	Post Type	Dimension A	Retention Feature	Part Numbers	
52	Solder Posts	.125 3.18	3-6, 41, 42, 51, 52, 93-96	645169-2 536128-11	
52	Solder Posts	.125 3.18	None	645169-3	
52	Solder Posts	.125 3.18	3-14, 41, 42, 51, 52, 85-96	645169-4	
52	Solder Posts	.125 3.18	5, 6, 31, 32, 41, 42, 93, 94	176139-1 ²	
52	Solder Posts	.187 4.75	None	650616-1	
					1

¹ Housing material is high temperature glass-filled polyester, gray. ² Contact area is gold flash.

Notes: 1. Card slot length is **5.300** [134.62].

2. Other connector sizes can be made available, consult

Tyco Electronics.

3. High temperature IR reflow compatible connectors can be made available, consult Tyco Electronics.

Catalog 1654080 Issued 7-03

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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