

J Interconnection 9

AMPMODU Interconnection System



Tyco Electronics Corporation Harrisburg, PA

tycoelectronics.com

1307819-?M-LUG-FP-8-08



PC/104 and PC/104-Plus Connectors

.050 x .050 [1.27 x 1.27] Centerline

.050 x .100 [1.27 x 2.54] Centerline

.100 x .100 [2.54 x 2.54] Centerline

.125 x .125 [3.18 x 3.18] Centerline

.156 [3.96] Centerline

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Disclaimer	◆ PC/104 and PC/104-Plus Connectors	
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a particular purpose. Tyco Electronics'	Introduction	18
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The dimensions, specifications, designs,	Technical Documents	
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AMP-O-LECTRIC, AMP-O-MATIC,	Flexible Flat Conductor Cable	
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Catalog	1307819
Revised	8-08

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



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

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Restriction on the use of Hazardous Substances (RoHS)

At Tyco Electronics, we're ready to support your RoHS requirements. We've assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where any change was required to eliminate the restricted materials. Part numbers in this catalog are identified as:

RoHS Compliant — Part numbers in this catalog are RoHS Compliant, unless marked otherwise. These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006.

NOTE: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.

NOTE: Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced at right.

Getting the Information You Need

Our comprehensive on-line RoHS Customer Support Center provides a forum to answer your questions and support your RoHS needs. A RoHS FAQ (Frequently Asked Questions) is available with links to more detailed information. You can also submit RoHS questions and receive a response within 24 hours during a normal work week. The Support Center also provides:

- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog
- Downloadable Technical Data Customer Information Presentation
- More detailed information
- Support Center regarding the definitions used above

So whatever your questions when it comes to RoHS, we have the answers at www.tycoelectronics.com/leadfree

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

RoHS

Customer

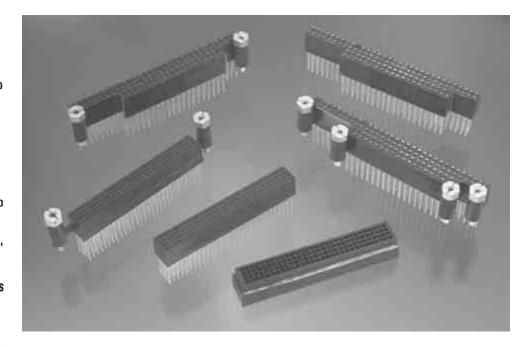


Product Facts

- Press fit design eliminates hand soldering
- Unitized PC/104 connector assembly — eliminates two piece (64 pin & 40 pin) configuration
- Integral board spacers with captive hardware — eases & improves assembly efficiency while minimizing stocked hardware
- "Flat-rock" insertable no need for complex insertion
- Recognized by Underwriters' Laboratories to US and Canadian c **FU**°us standards file No. E28476
- Fully compliant with PC104 & PC104-Plus standards
- Solutions available for lead free processes (ie. ENIG and silver immersion plated PCB's)



PC/104 and PC/104-Plus Connectors



The PC/104 and PC/104-Plus connectors are industry standard product offerings which comply with the interconnection requirements defined by the PC/104 organization (http://www.pc104.org)

Both products are designed specifically for "flat-rock" press-fit installation for ease of application. Solder version is also available.

Optional integral standoffs minimize the customer's system assembly time.

The Tyco Electronics offering of the standard PC/104 product is a unitized connector rather than the two piece, 40 and 64 position connectors currently on the market. Customer needs to stock and apply only one part number rather than

Performance Specifications **Electrical Characteristics**

Meets requirements of PC/104 and PC/104-Plus standards

Nominal Resistance — 10 milliohms maximum, Δ R

Insulation Resistance — 1000 megohms minimum

Dielectric Withstanding Voltage — 500 VAC for 1 min. at sea level

Mechanical Characteristics Meets requirements of PC/104 and

PC/104-Plus standards **Current** — Signal application only **Temperature** — -55° to 105° C

Material and Finish

Housing — Black Thermoplastic, UL

Contact — Phosphor Bronze, Full Gold all over Nickel (stackthrough), Gold on mating end, Tin or Tin-lead on PCB tail all over Nickel (non-stackthrough)

Need more information?

Call Technical Support 1-800-522-6752:

Technical Support is staffed with specialists well versed in all Tyco Electronics products. The Center can provide you with:

- Technical Support
- Catalogs
- Technical Documents
- Tyco Electronics Authorized Distributor Locations

Connector	Centerline	Position
PC/104	.100 2.54	104*
PC/104-Plus	.079 2.0	120**

^{*}Two circuits plugged per PC/104 specification. Other options available.

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108-1956

114-13021

Technical Documents Product Specifications

Application Specifications

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

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^{**}One circuit plugged per PC/104-Plus specification. Other options available.

PC/104, Press-Fit

Material and Finish

Housing — Glass filled thermoplastic, Black, 94V-0 rated

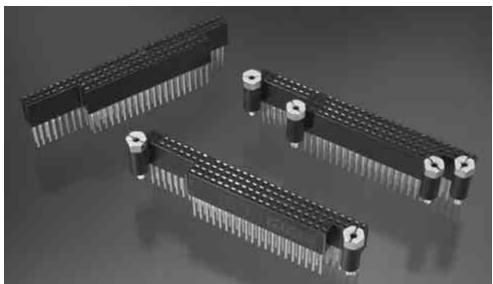
Contacts

Stackthrough — Phosphor Bronze; plated .000015 [0.00038] min. Gold on mating receptacle end, .000005 [0.000130] min. Gold on remainder, all over .000050 [0.00127] Nickel

Phosphor Bronze; plated .000015 [0.00038] min. Gold on mating receptacle end, .000100-.000200 [0.000254-.00508] matte tin on compliant section, .000005 {0.000130] min. Gold on remainder of post, all over .000050 [0.00127] Nickel

Non-Stackthrough — Phosphor Bronze; plated .000015 [0.00038] min. Gold on mating receptacle end, .000100 [0.00254] matte tin or tin-lead on remainder, all over .000050 [0.00127] Nickel

Screwlocks — Steel, Clear Chromate over Zinc



Stackthrough, No Standoffs

Gold plated contacts*

Part No. 1375795-1 (keyed), Part No. 1375795-2 (unkeyed) Gold plated contacts with Tin plated compliant pin section**

Part No. 1375795-3 (keyed), Part No. 1375795-4 (unkeyed)

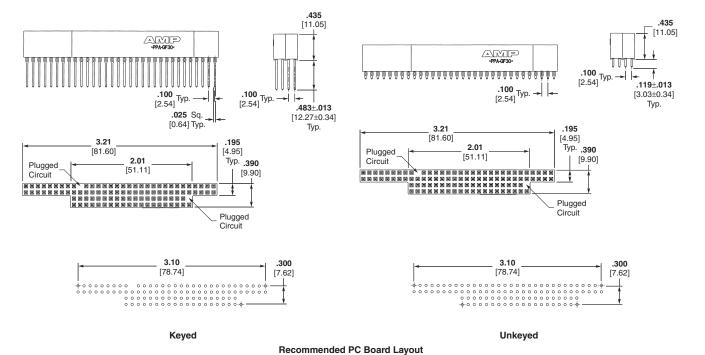
Non-Stackthrough, No Standoffs

Tin-lead plated tails*

Part No. 1375796-1 (keyed), Part No. 1375796-2 (unkeyed)

Matte tin plated tails**

Part No. 1375796-3 (keyed), Part No. 1375796-4 (unkeyed)



See Customer Drawing for Hole Geometry and Recommended Plating.

Note: All part numbers are RoHS compliant.

* For RoHS exempt Tin-lead processes (including ENIG Plated PCB's)

** for Silver Immersion processes or where a total lead free solution is desired

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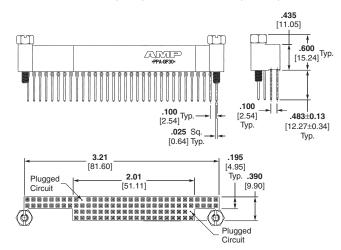
PC/104, Press-Fit (Continued)

Stackthrough, 2 Standoffs

Gold plated contacts*

Part No. 1375793-1 (keyed), Part No. 1375793-2 (unkeyed)

Gold plated contacts with Tin plated compliant pin section** Part No. 1375793-3 (keyed), Part No. 1375793-4 (unkeyed)

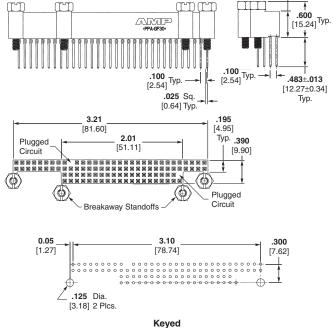


Stackthrough, 4 Standoffs

Gold plated contacts*

Part No. 1375791-1 (keyed), Part No. 1375791-2 (unkeyed)

Gold plated contacts with Tin plated compliant pin section** Part No. 1375791-3 (keyed), Part No. 1375791-4 (unkeyed)



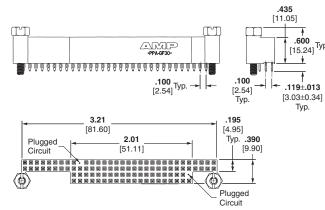
Non-Stackthrough, 2 Standoffs

Tin-lead plated tails*

Part No. 1375794-1 (keyed), Part No. 1375794-2 (unkeyed)

Matte tin plated tails**

Part No. 1375794-3 (keyed), Part No. 1375794-4 (unkeyed)



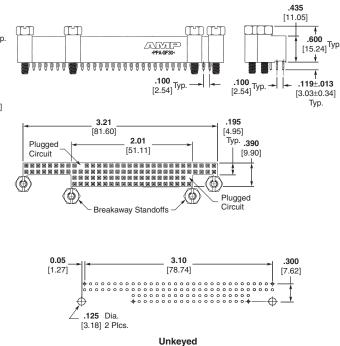
Non-Stackthrough, 4 Standoffs

Tin-lead plated tails*

Part No. 1375792-1 (keyed), Part No. 1375792-2 (unkeyed)

Matte tin plated tails**

Part No. 1375792-3 (keyed), Part No. 1375792-4 (unkeyed)



Recommended PC Board Layout See Customer Drawing for Hole Geometry and Recommended Plating.

Note: All part numbers are RoHS compliant.

- * For RoHS exempt Tin-lead processes (including ENIG Plated PCB's)
- ** for Silver Immersion processes or where a total lead free solution is desired

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[11.05]

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Tyco **Electronics**

AMPMODU Interconnection System

PC/104-Plus, Press-Fit

Material and Finish

Housing — Glass filled thermoplastic, Black, 94V-0 rated

Contacts

Stackthrough — Phosphor Bronze; plated .000015 [0.00038] min. Gold on mating receptacle end, .000005 [0.000130] min. Gold on remainder, all over .000050 [0.00127] Nickel

Phosphor Bronze; plated .000015 [0.00038] min. Gold on mating receptacle end, .000100-.000200 [0.000254-.00508] matte tin on compliant section, .000005 {0.000130] min. Gold on remainder of post, all over .000050 [0.00127] Nickel

Non-Stackthrough — Phosphor Bronze; plated .000015 [0.00038] min. Gold on mating receptacle end, .000100 [0.00254] matte tin or tin-lead on remainder, all over .000050 [0.00127] Nickel

Screwlocks — Steel, Clear Chromate over Zinc

Stackthrough, No Standoffs

Gold plated contacts*

Part No. 1375799-1 (unkeyed)

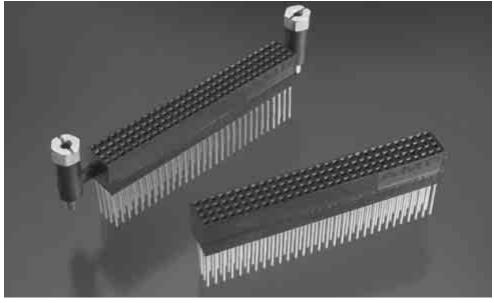
Part No. 1375799-2 (keyed-A1) per PC/104-Plus specification **Part No. 1375799-3** (keyed-D30) per PC/104-*Plus* specification

Gold plated contacts with Tin plated compliant pin section**

Part No. 1375799-4 (unkeyed)

Part No. 1375799-5 (keyed-A1) per PC/104-Plus specification

Part No. 1375799-6 (keyed-D30) per PC/104-*Plus* specification



Non-Stackthrough, No Standoffs

Tin-lead plated tails*

Part No. 1375800-1 (unkeyed)

Part No. 1375800-2 (keyed-A1) per PC/104-Plus specification

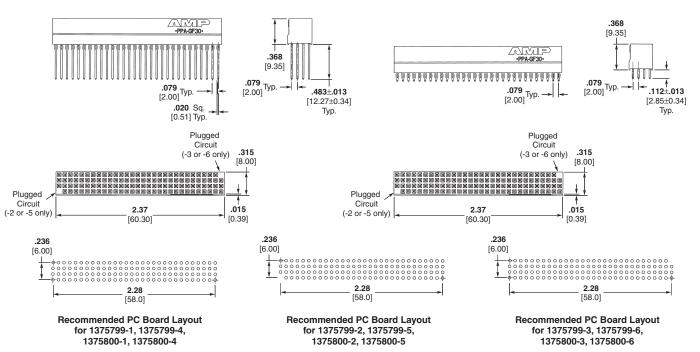
Part No. 1375800-3 (keyed-D30) per PC/104-*Plus* specification

Matte tin plated tails**

Part No. 1375800-4 (unkeyed)

Part No. 1375800-5 (keyed-A1) per PC/104-Plus specification

Part No. 1375800-6 (keyed-D30) per PC/104-*Plus* specification



See Customer Drawing for Hole Geometry and Recommended Plating (Including ENIG plated PCB's)

Note: All part numbers are RoHS compliant.

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- ** for Silver Immersion processes or where a total lead free solution is desired

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PC/104-Plus, Press-Fit (Continued)

Non-Stackthrough, 2 Standoffs Tin-lead plated tails*

Part No. 1375798-1 (unkeyed) Part No. 1375798-2 (keyed-A1) per PC/104-Plus specification Part No. 1375798-3 (keyed-D30) per PC/104-*Plus* specification

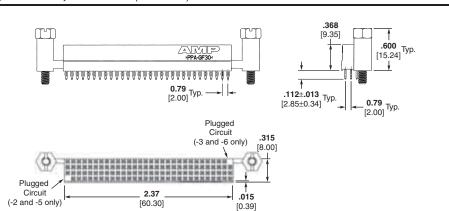
Matte tin plated tails**

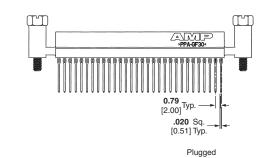
Part No. 1375798-4 (unkeyed), Part No. 1375798-5 (keyed-A1) per PC/104-Plus specification Part No. 1375798-6 (keyed-D30) per PC/104-Plus specification

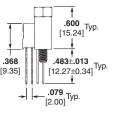
Stackthrough, 2 Standoffs

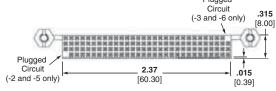
Gold plated contacts*
Part No. 1375797-1 (unkeyed) Part No. 1375797-2 (keyed-A1) per PC/104-Plus specification Part No. 1375797-3 (keyed-D30) per PC/104-Plus specification

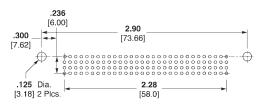
Gold plated contacts with Tin plated compliant pin section** **Part No. 1375797-4** (unkeyed) Part No. 1375797-5 (keyed-A1) per PC/104-*Plus* specification Part No. 1375797-6 (keyed-D30) per PC/104-*Plus* specification











.236 [6.00] 2.90 .300 4 > [73.66] [7.62] .125 Dia. 2.28

Recommended PC Board Layout for 1375797-1, 1375797-4, 1375798-1, 1375798-4

Recommended PC Board Layout for 1375797-2, 1375797-5, 1375798-2, 1375798-5



Recommended PC Board Layout for 1375797-3, 1375797-6, 1375798-3, 1375798-6

See Customer Drawing for Hole Geometry and Recommended Plating.

Note: All part numbers are RoHS compliant.

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PC/104 and PC/104-*Plus* Connectors

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AMPMODU Interconnection System

PC/104, Solder

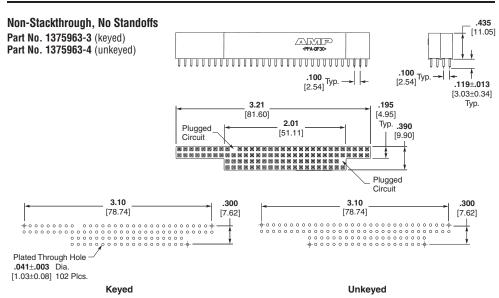
Material and Finish

Housing — Glass filled thermoplastic, Black, 94V-0 rated

Contacts

Non-Stackthrough — Phosphor Bronze; plated .000015 [0.00038] min. Gold on mating receptacle end, .000100 [0.00254] matte tin on remainder, all over .000050 [0.00127] Nickel

Screwlocks — Steel, Clear Chromate over Zinc

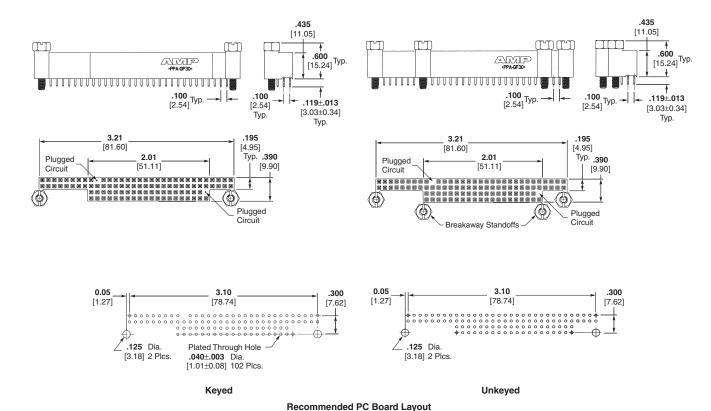


Recommended PC Board Layout

Non-Stackthrough, 2 Standoffs

Part No. 1375961-3 (keyed) Part No. 1375961-4 (unkeyed)

Non-Stackthrough, 4 Standoffs Part No. 1375959-3 (keyed) Part No. 1375959-4 (unkeyed)



Note: All part numbers are RoHS compliant.

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PC/104-Plus, Solder

Material and Finish

Housing — Glass filled thermoplastic, Black, 94V-0 rated

Contacts

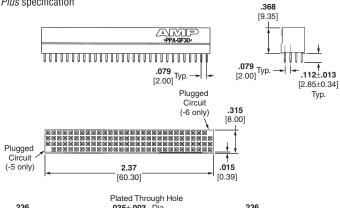
Non-Stackthrough — Phosphor Bronze; plated .000015 [0.00038] min. Gold on mating receptacle end, .000100 [0.00254] matte tin on remainder, all over .000050 [0.00127] Nickel

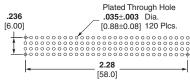
Screwlocks — Steel, Clear Chromate over Zinc

Non-Stackthrough, No Standoffs

Part No. 1375967-4 (unkeyed)
Part No. 1375967-5 (keyed-A1)
per PC/104-*Plus* specification
Part No. 1375067-6 (keyed D20

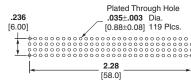
Part No. 1375967-6 (keyed-D30) per PC/104-Plus specification





Recommended PC Board Layout for 1375967-4

Recommended PC Board Layout for 1375967-5

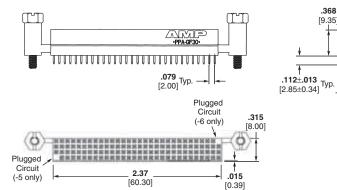


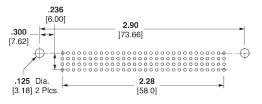
Recommended PC Board Layout for 1375967-6

[15.24]

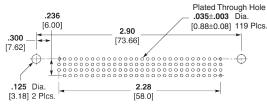
$Non-Stack through, \ 2\ Standoffs$

Part No. 1375965-4 (unkeyed) Part No. 1375965-5 (keyed-A1) per PC/104-*Plus* specification Part No. 1375965-6 (keyed-D30) per PC/104-*Plus* specification

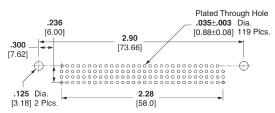




Recommended PC Board Layout for 1375965-4



Recommended PC Board Layout for 1375965-5



Note: All part numbers are RoHS compliant.

Recommended PC Board Layout for 1375965-6

Catalog 1307819 Revised 8-08

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: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

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ctors



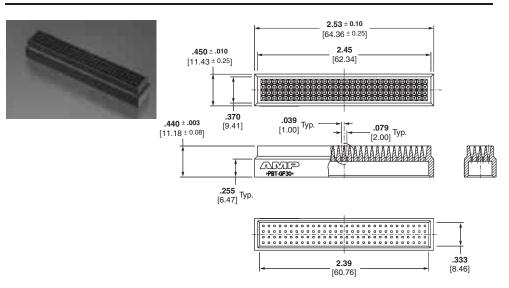
Tyco **Electronics**

AMPMODU Interconnection System

Accessories

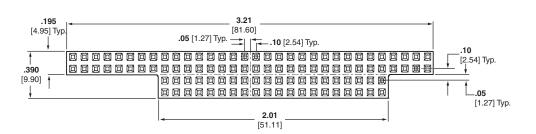
Shroud, PC/104-Plus Part No. 1375801-1

Material — PBT, Black



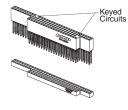
Organizer, PC/104 Part Number 1445251-1

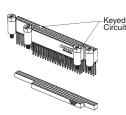
Material — Polyester, PBT, Black



Kit Packaging Part Numbers

Part Number -	Component Part Nu	Component Part Number			
rait Nulliber	Connector Assembly	Organizer	- Style		
1445441-3	1375795-3	1445251-1	Keyed		
1445441-4	1375795-4	1445251-1	Unkeyed		
1445440-3	1375793-3	1445251-1	Keyed		
1445440-4	1375793-4	1445251-1	Unkeyed		
1445439-3	1375791-3	1445251-1	Keyed		
1445439-4	1375791-4	1445251-1	Unkeyed		





Part No. 1445441-3

Part No. 1445440-3

Part No. 1445439-3

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08

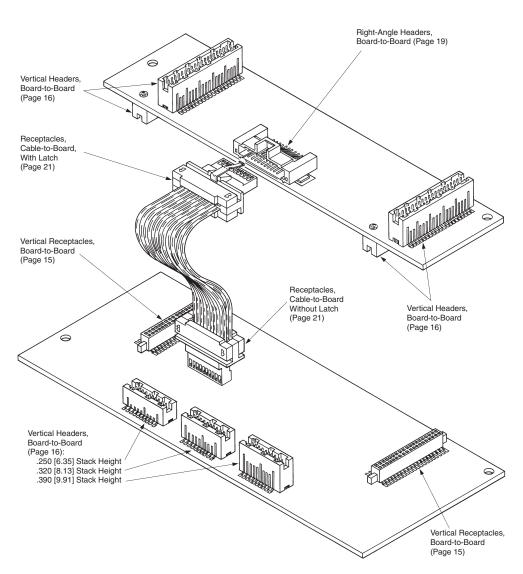
www.tycoelectronics.com

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: 52-55-1106-0803

AMPMODU 50/50 Grid Connector System



Produced under a Quality Management System certi-fied to ISO 9001

A copy of the certificate is available upon request.



Catalog 1307819 Revised 8-08



Product Facts

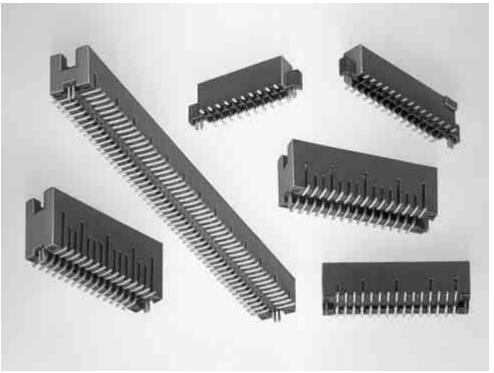
- parallel board-to-board applications, as well as right-angle board-to-board and cable-to-board applications
- High density .050 x .050 [1.27x1.27] centerline grid
- Three board-to-board stack heights: .250 [6.35], .320 [8.13] and .390 [9.91]
- holddowns
- Reliable dual beam receptacle contacts for
- Duplex plated receptacle and post contacts; gold plated on mating areas,
- **■** Compatible with standard surface-mount processing (VPR and IR)
- Receptacle and header allow for drainage of processing fluids
- Tape and reel packaging available. Contact
- Polarized header and recep-
- Recognized under the Underwriters Laboratories Inc.,
- **■** Certified by **Association** File No. LR7189

- Surface-mount products for

- Non-protrusive metallic
- redundant contact
- tin plated on tails

- Tyco Electronics for details
- tacle assemblies
- Sizes of 10, 20, 30, 40, 50, 60, 70, 80 and 100 positions
- Component Program of File No. E28476
- Canadian Standards





AMPMODU 50/50 Grid Vertical Headers and Receptacles are designed for parallel board-to-board stacking in high density applications.

Right-angle board-to-board and cable-to-board applications are also possible, since the vertical receptacles also mate with non-latching right-angle headers (page 19) and the vertical headers also mate with non-latching cable connectors.

Available are double row, vertical shrouded headers and receptacles in sizes ranging from 10 through 100 positions (in 10 position increments).

Parallel board-to-board stack heights of .250 [6.35], .320 [8.13] and .390 [9.91] are achievable by selection of the appropriate header. The receptacle is the same for all three stack height headers.

Non-protrusive metallic holddowns are designed for use in .062 [1.57] or thicker

PC boards and allow surface mounting to both sides of the board. In addition to providing retention during processing, the holddowns are soldered during reflow and therefore provide long-term strain relief for the solder joints.

AMPMODU 50/50 Grid Vertical Headers and Receptacles are designed to be compatible with standard surface-mount processes; IR (infrared) and VPR (vapor phase reflow). The surface-mount connectors have been designed so that dimensioning, tolerances, referenced datums, holddown characteristics

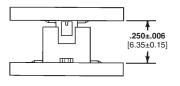
Non-Protrusive **Metallic Holddowns**

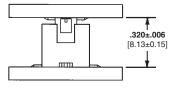


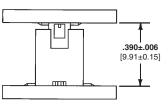
and packaging methods result in a system that is compatible with robotic assembly.

The headers and receptacles feature polarization to prevent misalignment.

Three Board Stack Heights







Catalog 1307819 Revised 8-08



Board-to-Board Vertical Receptacles, Double Row, .050 x .050 $[1.27 \times 1.27]$ Centerline



Material and Finish

Housing—Glass-filled thermoplastic, black, 94V-0 rated

Contacts—Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder tail, with entire contact underplated .000050 [0.00127] nickel

Holddown—Copper alloy; plated .000150 [0.00381] tin over .000050 [0.00127] nickel

Related Product Data

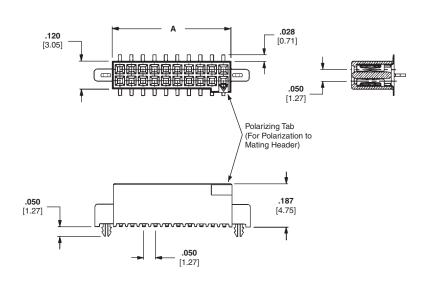
Mating Headers — pages 16, 19
PC Board Layouts — page 17
Performance Specifications —

page 24

Technical Documents — page 24

Product Specification 108-1332
Application Specification

Packaging: Tube or Tape and Reel



No. of Pos.	Dimension A		acle nbers	
Pos.	A	Tube	Tape and Reel*	No Hold Down w/Vacuum Cover
10	.266 [6.75]	5-104652-1	5-147384-1	5-147413-1
20	.516 [13.11]	5-104652-2	5-147384-2	5-147413-3
30	.766 [19.46]	5-104652-3	5-147384-3	5-147413-4
40	1.016 [25.81]	5-104652-4	5-147384-4	_
50	1.266 [32.16]	5-104652-5	5-147384-5	5-147413-2
60	1.516 [38.51]	5-104652-6	5-147384-6	_
70	1.766 [44.86]	5-104652-7	5-147384-7	_
80	2.016 [51.21]	5-104652-8	5-147384-8	_
100	2.516 [63.91]	6-104652-0	5-147384-9	_
	2.0.0 [00.01]	0 10 1002 0	3 1 17 00 4 3	

* Parts packaged in tape and reel have vacuum pick and place cover. See PC Board Layout on page 17.

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08

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: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

■ 15

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Double Row

2

Board-to-Board Vertical Headers, Double Row, .050 x .050 $[1.27 \times 1.27]$ Centerline



For .250 [6.35] Mated Height



For .320 [8.13] Mated Height



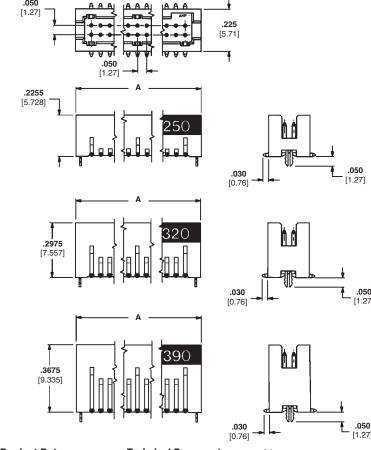
For .390 [9.91] Mated Height

Material and Finish

Housing—Glass-filled thermoplastic, black, 94V-0 rated

Contacts—Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder tail, with entire contact underplated .000050 [0.00127] nickel

Holddown—Copper alloy; plated .000150 [0.00381] tin over .000050 [0.00127] nickel



Mating Receptacles — page 15, 21 (without latch only)

PC Board Layouts — page 17 Performance Specifications —

Related Product Data Technical Documents — page 24

Product Specification 108-1332 **Application Specification** 114-7010

Packaging: Tube or Tape and Reel

			Header Part Numbers								
No. of	Dimension	.250	[6.35] Mated I	leight	.320 [8.13]	Mated Height	.390 [9.91] Mated Height				
Pos.	Α	Tobas	Tape	& Reel*	Tubes Tone 9 De	Taura & Daralt	Tul	bes	T 0 DI*		
		Tubes	Hold Down	No Hold Down	lubes	Tubes Tape & Reel*	Hold Down	No Hold Down	Tape & Reel*		
10	.372 [9.44]	5-104655-1	5-147381-1	5-147121-1	5-104656-1	5-147382-1	5-104693-1	_	5-147383-1		
20	.622 [15.79]	5-104655-3	5-147381-2	5-147121-2	5-104656-2	5-147382-2	5-104693-2	_	5-147383-2		
30	.872 [22.14]	5-104655-4	5-147381-3	_	5-104656-3	5-147382-3	5-104693-3	_	5-147383-3		
40	1.122 [28.49]	5-104655-5	5-147381-4	_	5-104656-4	5-147382-4	5-104693-4	_	5-147383-4		
50	1.372 [34.84]	5-104655-6	5-147381-5	_	5-104656-5	5-147382-5	5-104693-5	_	5-147383-5		
60	1.622 [41.19]	5-104655-7	5-147381-6	_	5-104656-6	5-147382-6	5-104693-6	_	5-147383-6		
70	1.872 [47.54]	5-104655-8	5-147381-7	_	5-104656-7	5-147382-7	5-104693-7	_	5-147383-7		
80	2.122 [53.89]	5-104655-9	5-147381-8	_	5-104656-8	5-147382-8	5-104693-8	_	5-147383-8		
90	2.372 [60.24]	_	_	_	5-104656-9	_	5-104693-9	_	_		
100	2.622 [66.59]	6-104655-1	5-147381-9	_	6-104656-0	5-147382-9	6-104693-0	5-147503-1	5-147383-9		

*Parts packaged in tape and reel have vacuum pick and place cover. See PC Board Layout on page 17.

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08 www.tycoelectronics.com

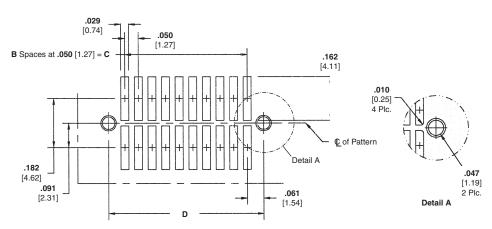
Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

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

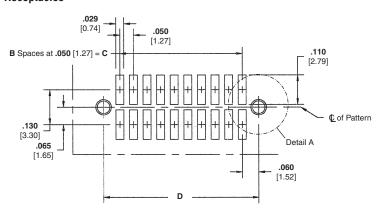
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

Recommended PC Board Layouts for Vertical Connectors

Headers



Receptacles



No. of		Receptacle Dimens	sions		ons	
Pos.	В	С	D	В	С	D
10	4	.200 [5.08]	.320 [8.12]	4	.200 [5.08]	.322 [8.17]
20	9	.450 [11.43]	.570 [14.48]	9	.450 [11.43]	.572 [14.52]
30	14	.700 [17.78]	.820 [20.83]	14	.700 [17.78]	.822 [20.87]
40	19	.950 [24.13]	1.070 [27.19]	19	.950 [24.13]	1.072 [27.22]
50	24	1.200 [30.48]	1.320 [33.53]	24	1.200 [30.48]	1.322 [33.57]
60	29	1.450 [36.83]	1.570 [39.88]	29	1.450 [36.83]	1.572 [39.92]
70	34	1.700 [43.18]	1.820 [46.23]	34	1.700 [43.18]	1.822 [46.27]
80	39	1.950 [49.53]	2.070 [52.58]	39	1.950 [49.53]	2.072 [52.62]
90	44	2.200 [55.88]	2.320 [58.93]	44	2.200 [55.88]	2.322 [58.97]
100	49	2.450 [62.23]	2.570 [65.28]	49	2.450 [62.23]	2.572 [65.32]

Note: Refer to Tyco Electronics Customer Drawings for additional PC board layout information and dimensional tolerances.

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08

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: 52-55-1106-0803

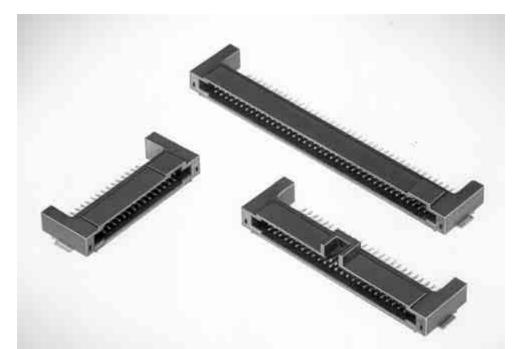
South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

Board-to-Board Right-Angle Headers

Product Facts

- Surface-mount products for right-angle board-to-board and cable-to-board applications
- **■** Double-row, right-angle shrouded headers
- High density .050 x .050 [1.27 x 1.27] centerline grid
- Latching and non-latching versions available
- Non-protrusive metallic holddowns
- Metallic tabs, when soldered to PC board pad, provide added mechanical support
- Duplex plated post contacts; gold plated on mating area, tin plated on tails
- **■** Compatible with standard surface-mount processing (VPR and IR)
- Standoffs on header housings allow for drainage of processing fluids
- All headers are polarized
- Sizes of 10, 20, 30, 40, 50, 60, 70, 80 and 100 positions
- Recognized under the **Component Program of** Underwriters Laboratories Inc., File No. E28476
- **■** Certified by Canadian Standards **Association** File No. LR7189





AMPMODU 50/50 Grid Right-Angle Headers will accommodate a variety of high density packaging applications; right-angle board-to-board applications when mated with vertical receptacles (page 15) and right-angle cable-to-board applications when mated with cable connectors (page 21). The small .050 x .050 [1.27 x 1.27] centerline contact spacing allows efficient use of the PC board area.

Mechanical support of the headers to the PC board is provided by non-protrusive metallic holddowns designed for .062 [1.57] or thicker PC boards. These holddowns are of the same

design as those used in the vertical headers (page 16) and receptacles (page 15). There are also metallic tabs that are soldered to the surfaces of the PC board pads for added support.

AMPMODU 50/50 Grid Right-Angle Headers are available in double-row, in either latching or nonlatching versions, and in sizes ranging from 10 through 100 positions (in 10 position increments). The latching version provides positive retention when mated with the latching cable connector (page 21). All headers feature polarization to help prevent misalignment during mating.

Catalog 1307819 Revised 8-08

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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: 52-55-1106-0803



Board-to-Board Right-Angle Headers, Double Row, .050 x .050 [1.27 x 1.27] Centerline

Non-Latching Header



Latching Header



Material and Finish

Housing — Liquid crystal polymer, black, 94V-0 rated

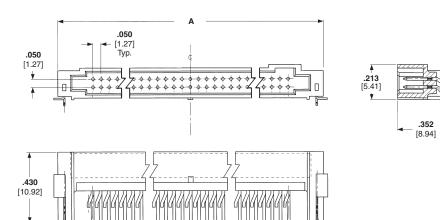
Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.000381] tin on solder tail, with entire contact underplated .000050 [0.00127] nickel

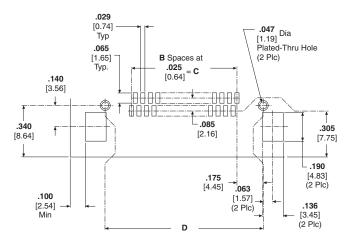
Holddown — Copper alloy; plated .0000150 [0.00381] tin over .000050 [0.00127] nickel

Related Product Data

Mating Receptacles — page 15, 21 Performance Specifications —

Technical Documents — page 24 **Product Specification** 108-1443 **Application Specification** 114-7010 Packaging: Tube





Note: Refer to Tyco Electronics Customer Drawings for additional PC board layout information and

Recommended PC Board Layout

No. of	Dimensions					ader umbers
Pos.	Α	В	С	D	Latching	Non-Latching
10	.630 [16.00]	9	.225 [5.72]	.550 [13.97]	5-104895-1	5-104894-1
20	.880 [22.35]	19	.475 [12.07]	.800 [20.32]	5-104895-2	5-104894-2
30	1.130 [28.70]	29	.725 [18.42]	1.050 [26.67]	5-104895-3	5-104894-3
40	1.380 [35.05]	39	.975 [24.77]	1.300 [33.02]	5-104895-4	5-104894-4
50	1.630 [41.40]	49	1.225 [31.12]	1.550 [39.37]	5-104895-5	5-104894-5
60	1.880 [47.75]	59	1.475 [37.47]	1.800 [45.72]	5-104895-6	5-104894-6
70	2.130 [54.10]	69	1.725 [43.82]	2.050 [52.07]	5-104895-7	5-104894-7
80	2.380 [60.45]	79	1.975 [50.17]	2.300 [58.42]	5-104895-8	5-104894-8
100	2.880 [73.15]	99	2.475 [62.87]	2.800 [71.12]	6-104895-0	6-104894-0

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08

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

Dimensions are in inches and

USA: 1-800-522-6752 Dimensions are shown for Canada: 1-905-470-4425 Mexico: 01-800-733-8926 reference purposes only. Specifications subject C. America: 52-55-1106-0803 to change.

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

Cable-to-Board Connectors

These double-row cable

connectors, with a .050 x

contact spacing, provide

AMPMODU 50/50 Grid

Connector System. Cable

connectors without a latch

will mate with the vertical

headers (page 16), while

cable connectors with or

headers (page 19).

The cable connectors

feature reliable single-

to mate with the right-angle

capabilities for the

cable-to-board connection

Product Facts

- Double-row receptacle connectors provide cableto-board connection capabilities for vertical headers (non-latching) and right-angle headers
- Displacement Crimp) mass termination of solid or stranded round conductor .050 [1.27] centerline ribbon cable with PVC or
- conductor sizes of 28 AWG [0.08-0.09 mm²] and 30 AWG [0.05 mm²] and insulation diameters up to
- Duplex plated receptacle contacts; gold plated in mating area, tin in
- Terminating covers (sold separately) provide both
- Sizes of 10, 20, 30, 40, 50,
- **■** Connectors available with or
- are polarized to help
- Underwriters File No. E28476
- Standards **Association** File No. LR7189

- IDC (Insulation
- .036 [0.91] maximum
- receptacle contact design
- termination area
- to the termination area
- without metal latch
- prevent mismating
- **Component Program of**





polyethylene insulation ■ Accommodates ribbon cable

- Reliable single beam
- strain relief and protection
- 60, 70, 80 and 100 positions
- **■** Connectors without latches
- Recognized under the Laboratories Inc..
- beam IDC (insulation displacement crimp) **■** Certified by Canadian contacts which are duplex plated with .000030 [0.00076] gold. These contacts can be mass terminated to either solid or

stranded round conductor ribbon cable with conductor .050 [1.27 x 1.27] centerline sizes of 28 AWG [0.08-0.09 mm²] and 30 AWG [0.05 mm² and a maximum insulation diameter of .036 [0.91]. During termination, the terminating covers, which must be purchased separately, assist in guiding the wire into the IDC contacts, then provide without a latch can be used strain relief when fully seated. Actual termination is accomplished with the Tyco Electronics manual tooling shown on page 23.

> The latching version of the cable connector is equipped with a metal latch which provides positive retention of the receptacle cable connector when mated with a surface-

mounted right-angle header. The cable connector without a metal latch features polarization to help prevent mismating. All connectors are available in sizes ranging from 10 through 100 positions (in 10 position increments).

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Catalog 1307819 Revised 8-08



Cable-to-Board Receptacle Connectors, Double Row, .050 x .050 [1.27 x 1.27] Centerline



Material and Finish

Housing — Thermoplastic, black, 94V-0 rated

Latch — Stainless steel

Contacts — Phosphor bronze; duplex plated .000030 [0.00076] minimum gold in mating area, .000150 [0.00381] minimum tin on solder tail, with entire contact underplated .000050 [0.00127] minimum nickel

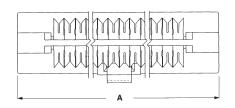
Related Product Data

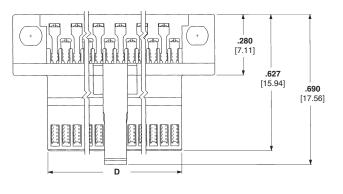
Mating Headers — page 16, 19 (latching)

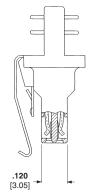
Terminating Covers (Must be Purchased Separately, 2 Required **per Connector)** — page 22

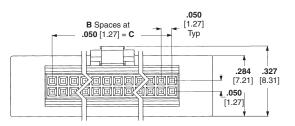
Termination Tooling — page 23 Performance Specifications page 24

Technical Documents — page 24 **Product Specification** 108-1443 **Application Specification** 408-9817, 408-9909 Packaging: Tube









No. of		Dimensions				ceptacle Numbers
Pos.	Α	В	С	D	With Latch	Without Latch
10	.578 [14.68]	4	.200 [5.08]	.266 [6.76]	5-104892-1	5-104893-1
20	.828 [21.03]	9	.450 [11.43]	.516 [13.11]	5-104892-2	5-104893-2
30	1.078 [27.38]	14	.700 [17.78]	.766 [19.46]	5-104892-3	5-104893-3
40	1.328 [33.73]	19	.950 [24.13]	1.016 [25.81]	5-104892-4	5-104893-4
50	1.578 [40.08]	24	1.200 [30.48]	1.266 [32.16]	5-104892-5	5-104893-5
60	1.828 [46.43]	29	1.450 [36.83]	1.516 [38.51]	5-104892-6	5-104893-6
70	2.078 [52.78]	34	1.700 [43.18]	1.766 [44.86]	5-104892-7	5-104893-7
80	2.328 [59.13]	39	1.950 [49.53]	2.016 [51.21]	5-104892-8	5-104893-8
100	2.828 [71.83]	49	2.450 [62.23]	2.516 [63.91]	6-104892-0	6-104893-0

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08

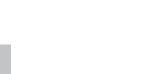
www.tycoelectronics.com

Downloaded from Arrow.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: 52-55-1106-0803



Terminating Covers for Cable Connectors



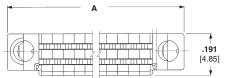
Material

Glass-filled thermoplastic, black, 94V-0 rated

Related Product Data

Connectors used with Covers — **Termination Tooling** — page 23

Technical Documents — page 24 **Product Specification** 108-1443 **Application Specification** 408-9817, 408-9909 Packaging: Plastic bag







No. of Pos.	Dimension A	Terminator Cover Part Numbers
10	.565 [14.35]	104891-1
20	.815 [20.70]	104891-2
30	1.065 [27.05]	104891-3
40	1.315 [33.82]	104891-4
50	1.565 [39.75]	104891-5
60	1.815 [46.10]	104891-6
70	2.065 [52.45]	104891-7
80	2.315 [58.80]	104891-8
100	2.815 [71.50]	1-104891-0

Note: Terminating covers must be purchased separately, two are required for each cable connector.

Note: All part numbers are RoHS compliant.

Catalog 1307819 Revised 8-08 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: 52-55-1106-0803

Application Tooling for Cable Connectors

The Manual Miniature Application Frame Assembly 91295-1, equipped with a Cover Closing Kit 543518-1, is used for the IDC termination of ribbon cable to the cable connectors shown on page 21.

Prior to termination, the covers must be partially assembled onto a connector housing, the cable inserted between the covers and contacts and the covers preclosed by hand, clamping the cable in

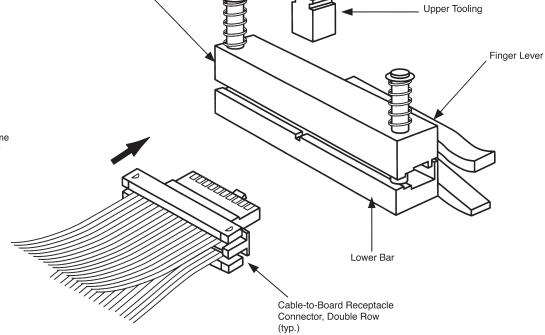
In the Manual Miniature Application Frame Assembly, the covers are fully seated to complete the mass termination and provide strain relief for the completed connection.

For tooling information, call Technical Support Center 1-800-522-6752.



Manual Miniature Application Frame Assembly 91295-1 with Cover Closing Kit 543518-1

Note: Refer to Tyco Electonics Instruction Sheets 408-9817 (Frame Assembly 91295-1) and 408-9909 (Cover Closing Kit 543518-1) for complete termination/tooling infor-



Note: All part numbers are RoHS compliant.

Upper Bar

Catalog 1307819 Revised 8-08

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: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

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Performance Specifications

Board-to-Board Connectors, Vertical and Right-Angle

Mating Force: 6.4 oz (1.78 N] max. per contact **Unmating Force:** 1.0 oz [0.28 N] min. per contact

Durability: Tested to 200 cycles min.

Current Rating: (30°C T rise): .5 ampere per contact
Operating Temperature Range: -65°C to +105°C
Termination Resistance: 16 milliohms max. (initial)
Insulation Resistance: 5000 megohms min. (initial)
Dielectric Withstanding Voltage: 300 VAC

Cable-to-Board Connectors

Mating Force: 6.4 oz (1.78 N] max. per contact

Unmating Force Without Latch: .5 oz [0.14 N] min. per contact

Durability: Tested to 200 cycles min.

Current Rating: (10°C T rise): .5 ampere per contact **Operating Temperature Range:** -65°C to +105°C

Termination Resistance: 25 milliohms max. (initial and final) Insulation Resistance: 5000 megohms min. (initial) Dielectric Withstanding Voltage: 300 VAC

Technical Documents

Various technical documents are available for your use:

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

108-1332 AMPMODU 50/50 Grid Vertical Board-to-Board Connectors

108-1443 AMPMODU 50/50 Grid Right-Angle Board-to-Board and Cable Connectors

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 Machine Setup Person.

114-7010 AMPMODU 50/50 Grid Connector System

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

408-9817 Manual Miniature Application Frame Assembly 91295-1

408-9909 Cover Closing Kit 543518-1

Note: All part numbers are RoHS compliant.

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