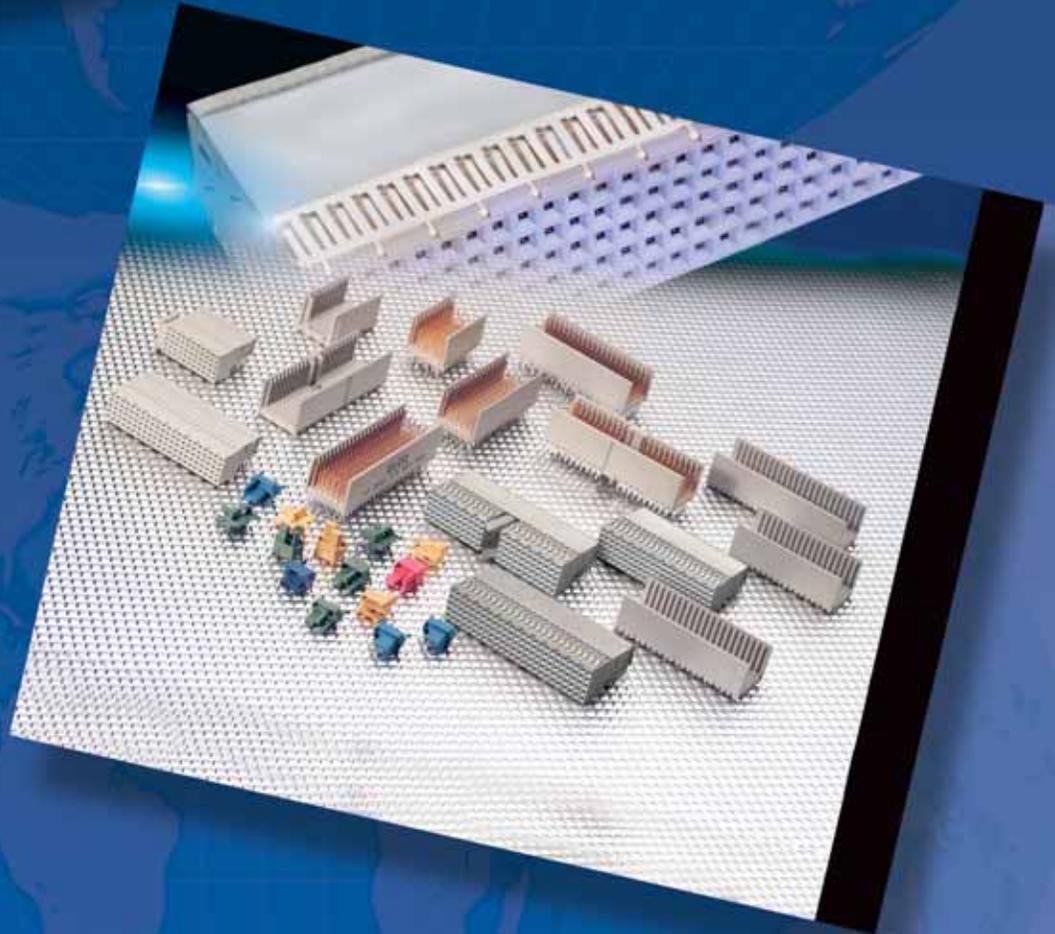
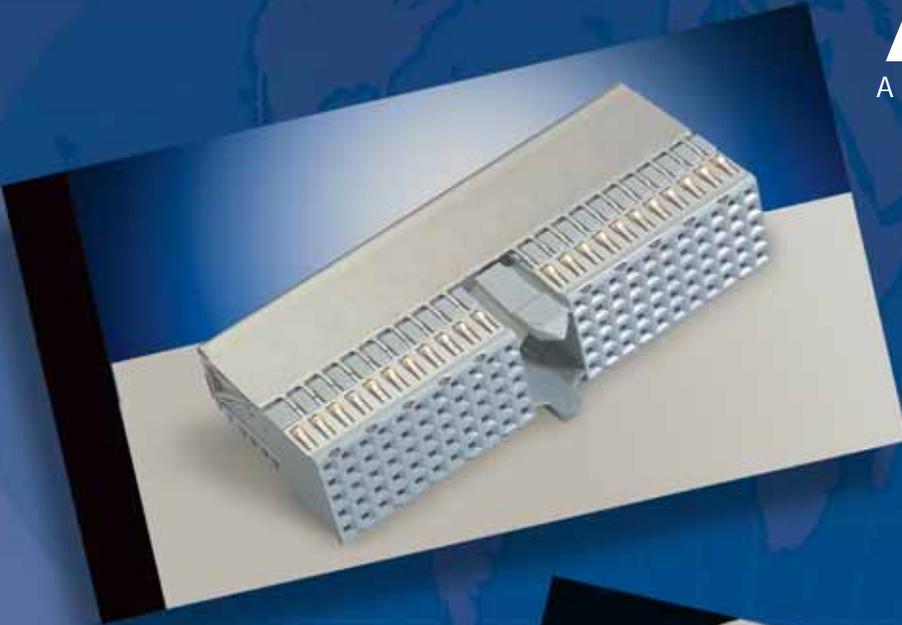


AVX

A KYOCERA GROUP COMPANY



2mm Hard Metric Connectors

<Version 6.1>

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Connectors according to IEC 61076-4-101

The 2.0mm hard metric connectors made by AVX are developed and produced in accordance to the international engineering standards IEC 61076-4-101. Because of this users all over the world have a standard for the connection of printed circuit boards with high density connectors. The boards can be changed from one system to another without any problems. Important parameters like alignment, shielding and coding

remain compatible beyond the application. This specification has been selected as the CompactPCI® bus architecture by the PCI Industrial Computer Manufacturers Group (PICMG). AVX connectors have been specifically designed to fit in Position P1/P4, J1/J4 and P2/P5; J2/J5 for CompactPCI® applications and P0/J0 in the VME 64 extension format. AVX also offers full custom connector service to meet the specific needs of given markets and systems.

THE AVX ADVANTAGE

- Modular connector system with 2.0mm grid for CompactPCI® backplane and daughter cards.
- Insulators are beveled at each end to guarantee accurate positioning on the printed circuit board.
- Five, seven and eight signal rows plus two shield rows for optimum transmission performance.

CODING

To avoid mixing printed circuit boards Type A connectors use coding keys in accordance with IEC61076-4-101. Coding keys are inserted into the multi-function cavity by hand.

TYPE A MULTI-FUNCTION CAVITY & PRE-ALIGNMENT GUIDES

Type A connectors are equipped with a multi-function cavity and pre-alignment guides. The guides ensure proper alignment between the boards during mating. The cavity accepts coding keys in accordance with IEC61076-4-101 to prevent mis-mating of boards.

RoHs COMPLIANCE

The RoHs directive proposed by the European Commission imposes a ban on the following substances: lead, mercury, cadmium, hexavalent chromium, and PBB and PDBE's (halogenated flame retardants) The RoHs implementation Date is July 1, 2006.

AVX 2MM Hard Metric connectors are fully compliant with Directive 2002/95/EC and do not contain any of the substances Prohibited by RoHs for order entries after March, 1, 2006.

MODULAR SHIELDING

Modular shielding of female connectors enables high speed data transmission in high frequency application. Reduces the crosstalk level and allows an increase of the performance to subnanosecond pulse rise time if used in a differential pair application.

[12 different contact sizes for custom configurations](#)

AVX vertical male hard metric connectors have 3 different lengths at the mating side and 4 lengths at the terminal side. The different lengths are required for certain earliest make last break connections on signal or group contacts.

APPROVALS AND SPECIFICATIONS

AVX hard metric connector system meets the requirements of IEC 61076-4-101.

TELCORDIA (FORMERLY BELLCORE) GR-1217-CORE

AVX hard metric connectors are designed to meet the requirements of Telcordia Technologies (formerly BellCore), GR-1217-Core.

ISO9001

The complete hard metric connector system is manufactured in fully approved ISO9001 and QS9000 facilities.

PICMG®

The hard metric connector system meets the requirements of the CompactPCI® specification as defined by the PCI Industrial Computer Manufacturers Group.



PCI Industrial Computer Manufacturers Group, (PICMG), is a consortium of Industrial Computer Product vendors with the mission of designing specifications for PCI-based systems and boards to be used in industrial and telecommunications applications. For more information on PICMG visit their website at www.picmg.org

Multi-Line Module Connectors For CompactPCI®



TECHNICAL SPECIFICATIONS

Contact Spacing		2.0mm grid
Current Rating		1.0A/contact / 70°C
Voltage Rating		250V maximum
Dielectric Withstanding Voltage		750VAC rms/minute
Insulation Resistance	contact / contact	10 ⁴ M Ω minimum
	contact / shielding	10 ⁴ M Ω minimum
Contact Resistance		20m Ω maximum
Insertion Force	contact	n x 0.75 N maximum
	inclusive shielding	n x 1.00 N maximum
Separation Force	contact	n x 0.15 N minimum
	inclusive shielding	n x 0.15 N minimum
Operating Temperature		-55° to +125°C

MATERIAL

Contact	Plug	Phosphor Bronze
	Receptacle	Phosphor Bronze
Insulator	Plug	PBT 30% Glass Filled, UL 94V-0 Rated
	Receptacle	PBT 30% Glass Filled, UL 94V-0 Rated
Shroud		PBT 30% Glass Filled, UL 94V-0 Rated
Code Key		Glass Filled Polyester, UL 94V-0 Rated
Ground Return Shields		Phosphor Bronze



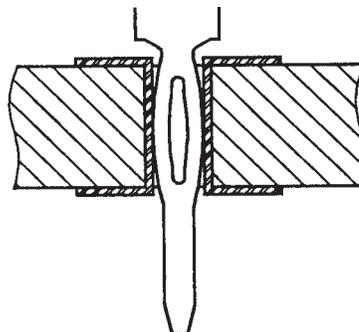
FINISH SERIES 7200

Finish Code		Class	Mating Cycle	Mating Area	Second Mating	Press-fit Area
001 / 004	male	1	>500	Au 1.27µm min.	Au 1.27µm min.	Ni 2-4µm min.
002 / 005	male	2	>250	Au 0.80µm min.	Au 0.80µm min.	Ni 2-4µm min.
001	female	1	>500	Au 1.27µm min.		Ni 2-4µm min.
002	female	2	>250	Au 0.80µm min.		Ni 2-4µm min.

FINISH SERIES 8071, 8072, 8077

Finish Code		Class	Mating Cycle	Mating Area	Other Area	Press-fit Area
833	male female	2	≥250	Pd/Ni 0.65µm min. Gold 0.1µm min.	Au 0.05µm	See individual page
863/517	male female	2	≥250	Au 0.76µm min.	Au 0.05µm	See individual page

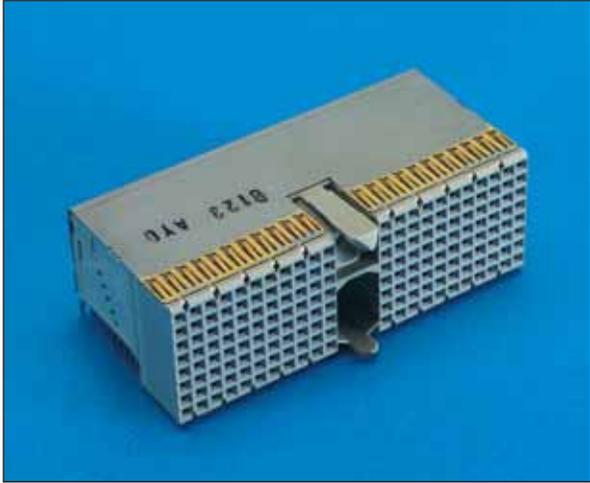
COMPLIANT PINS



AVX Multi-Line Module Connectors utilize the original VARIPIN™ press-fit technology for reliable solderless applications.

Type D Right Angle Female for Daughter Cards

Series 8077

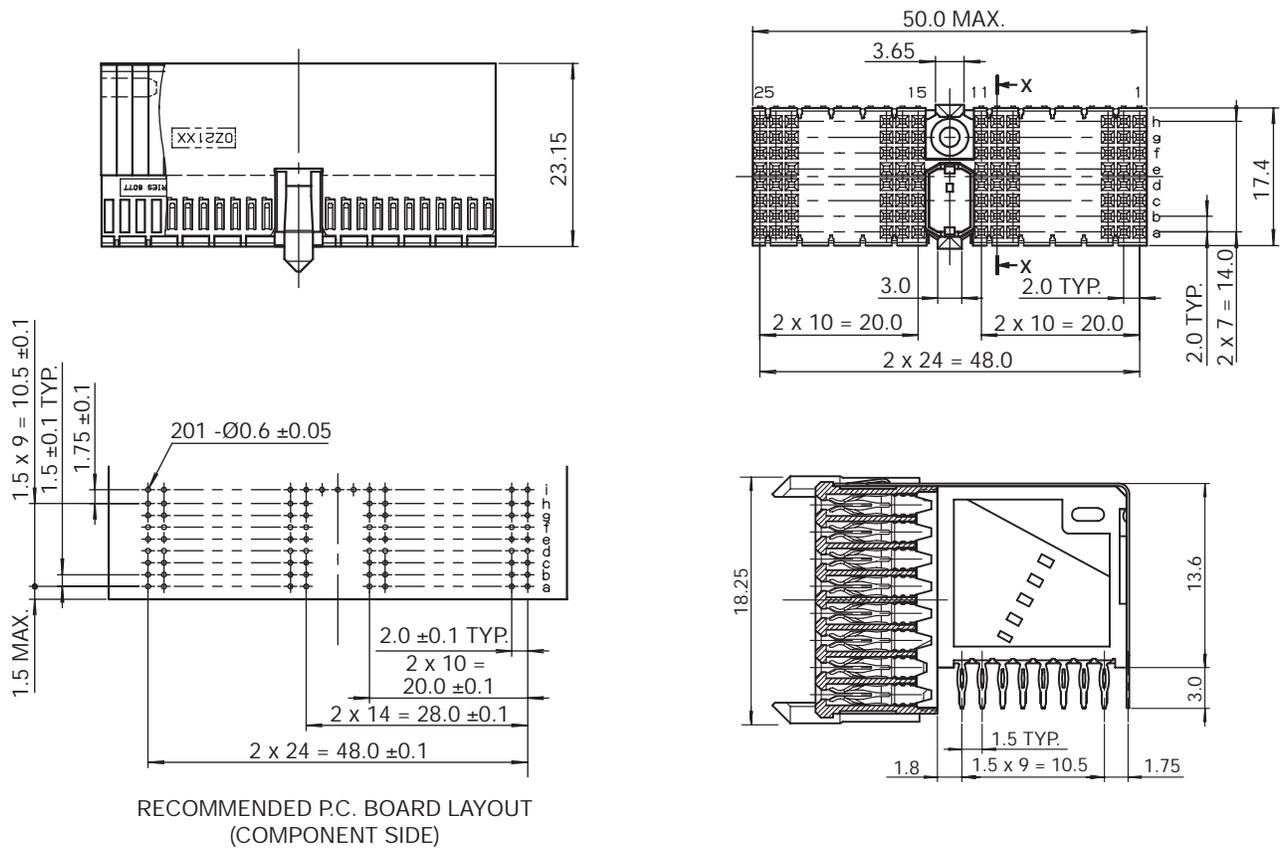


- 176 contacts in a 8 x 25 position configuration
- Center cavity with pre-alignment guides and keying option (uses 3 positions)
- See pages 52 and 53 for keying options
- Designed for gas tight press-fit installation
- Available with or without upper ground return shield
- This connector can be used by itself or in conjunction with Style E or F connectors



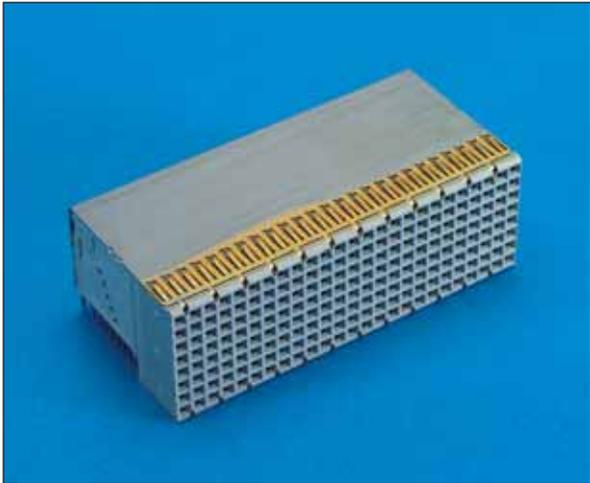
27 8077 176 001 863+ = Type D Right Angle Female without top shield
27 8077 176 011 863+ = Type D Right Angle Female with top shield

Plating Code	Contact Area	Press-fit Area	Under Coat
863	0.76µm min. Au	1.5-3.0µm Sn	1.2-3.0µm Ni



Type E Right Angle Female for Daughter Cards

Series 8077

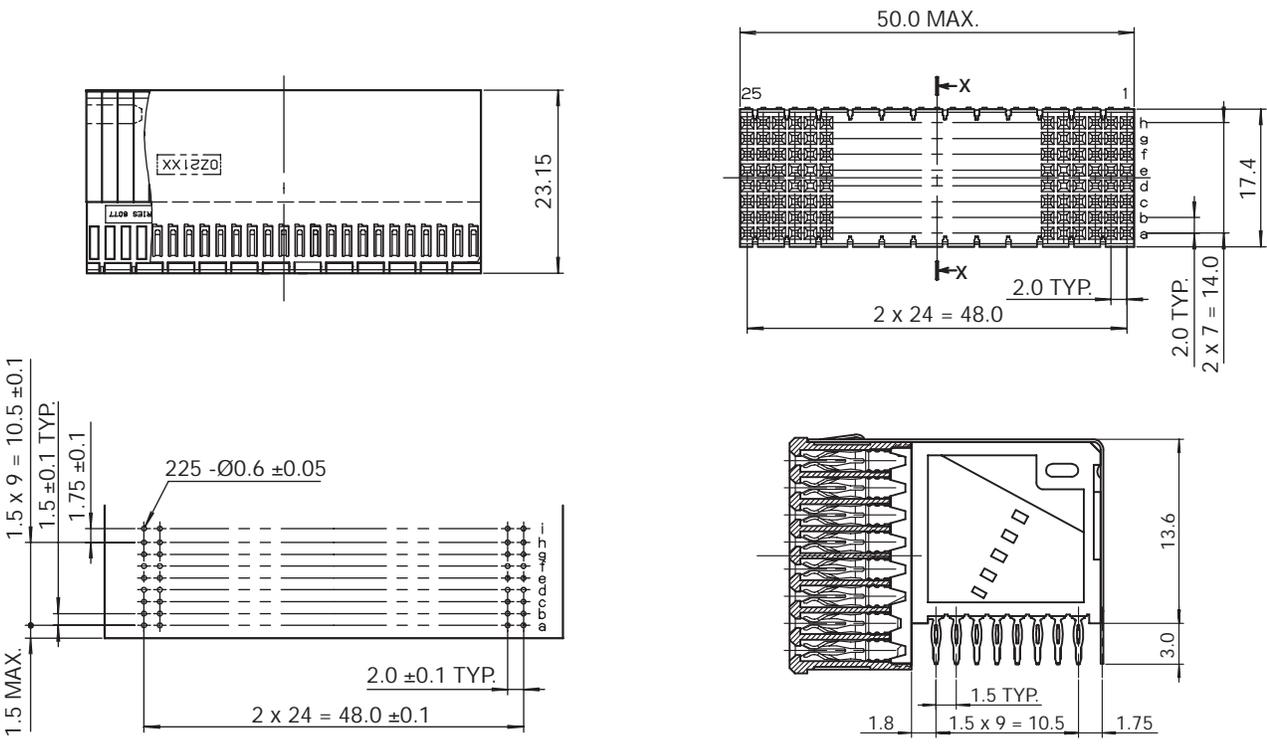


- 200 contacts in a 8 x 25 position configuration
- Designed for gas tight press-fit installation
- Available with or without upper ground return shield
- This connector should be used in conjunction with a Type D style to ensure proper mating alignment



27 8077 200 000 863+ = Type E Right Angle Female without top shield
 27 8077 200 010 863+ = Type E Right Angle Female with top shield

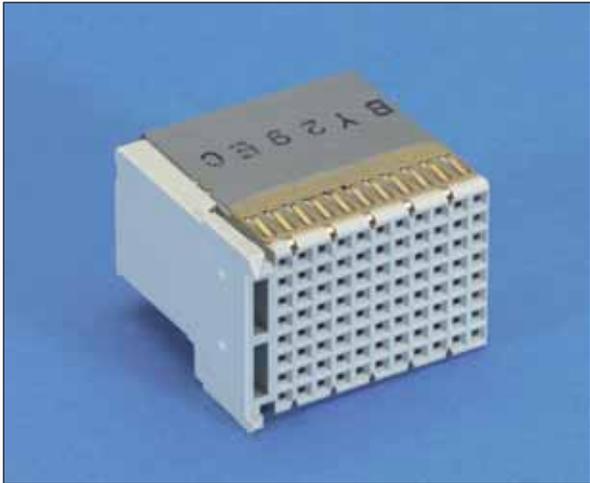
Plating Code	Contact Area	Press-fit Area	Under Coat
863	0.76µm min. Au	1.5-3.0µm Sn	1.2-3.0µm Ni



RECOMMENDED P.C. BOARD LAYOUT (COMPONENT SIDE)

Type F Right Angle Female for Daughter Cards

Series 8077

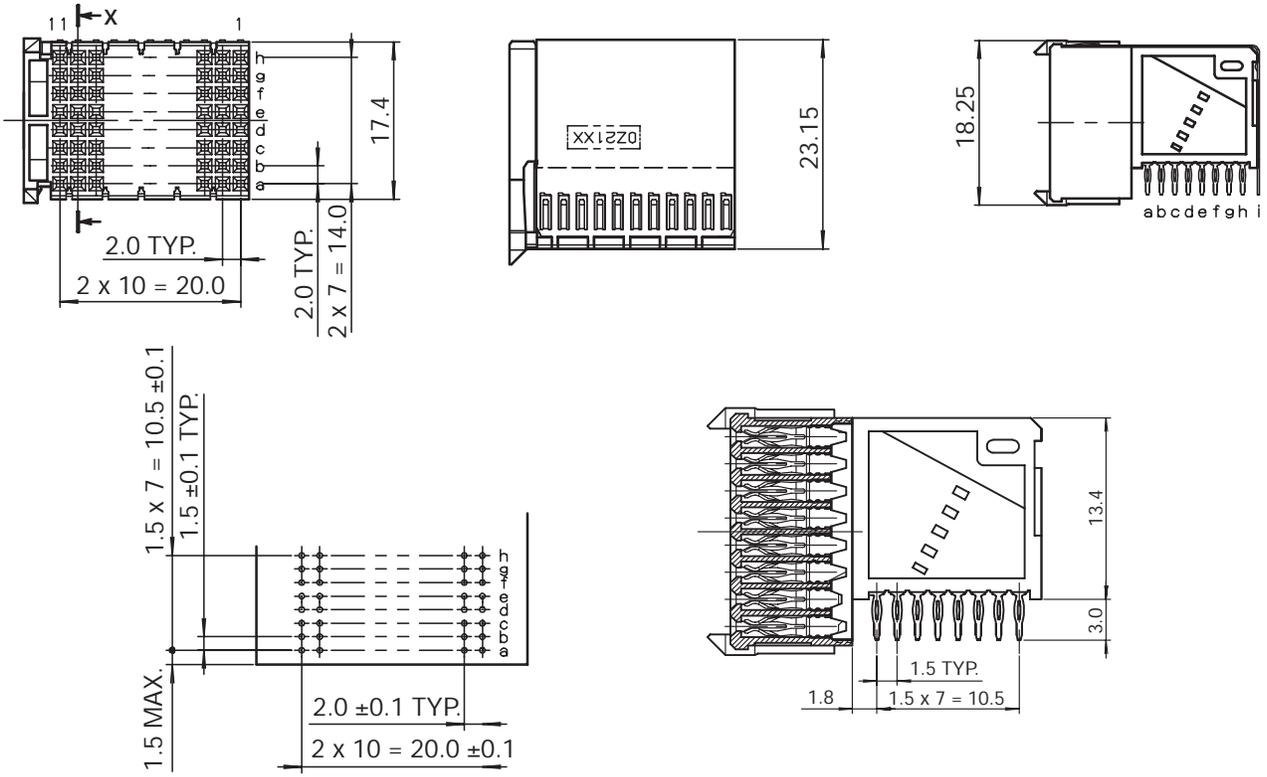


- 88 contacts in a 8 x 11 position configuration
- Designed for gas tight press-fit installation
- Available with or without upper ground return shield
- This connector can be used by itself or in conjunction with a Type D connector
- Should be used in end positions only



27 8077 088 001 863+ = Type F Right Angle Female without top shield
27 8077 088 011 863+ = Type F Right Angle Female with top shield

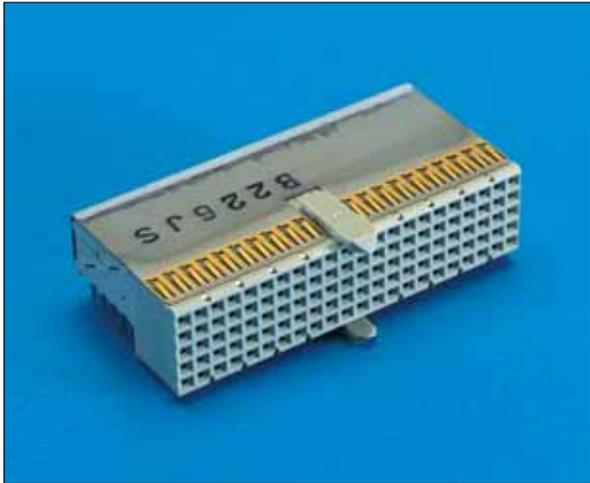
Plating Code	Contact Area	Press-fit Area	Under Coat
863	0.76µm min. Au	1.5-3.0µm Sn	1.2-3.0µm Ni



RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)

Type AB Right Angle Female for Daughter Cards

Series 8071



- 110 contacts in a 5 x 22 configuration
- Available with or without upper shield
- Designed for gas tight press-fit installation
- Available with or without upper ground return shield
- Prealignment guides
- This connector can be used by itself or in conjunction with a Type A, B, C female connector

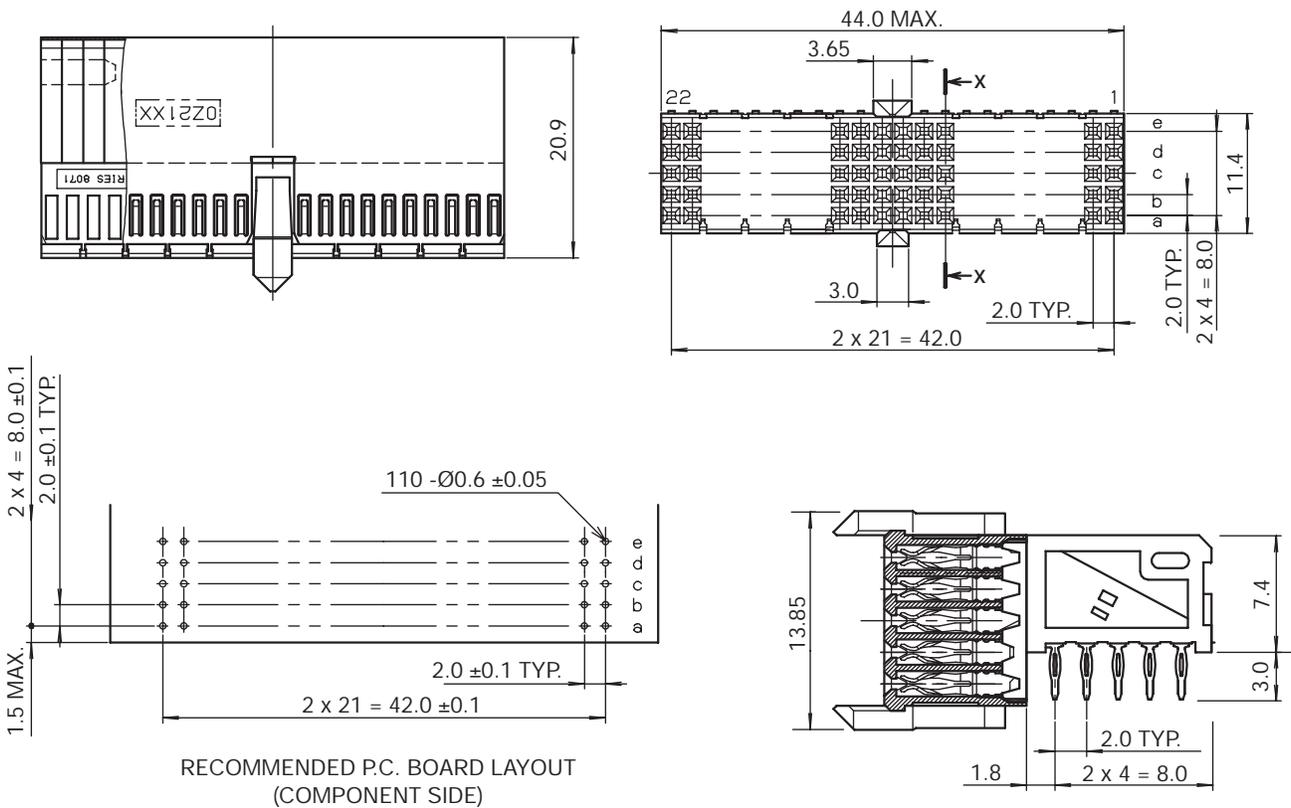


27 8071 110 003 XXX+ = Type B 22 Vertical Female without upper shield

27 8071 110 013 XXX+ = Type B 22 Vertical Female with upper shield

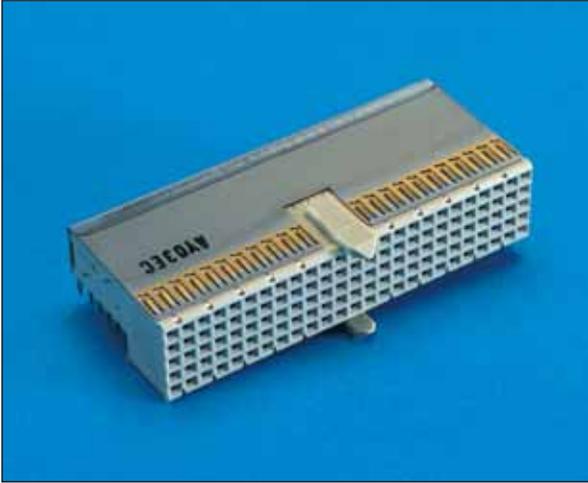
XXX =

Plating Code	Contact Area	Press-fit Area	Under Coat
833	0.1µm min. Au.65µm Pd/Ni	1.5-3.0µm Sn	Nickel 1.2-3.0µm Ni
863	0.76µm min. Au	1.5-3.0µm Sn	Nickel 1.2-3.0µm Ni



Type AB Right Angle Female for Daughter Cards

Series 8071



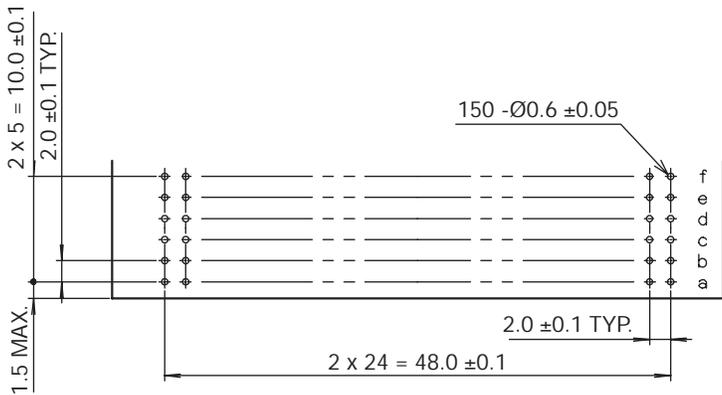
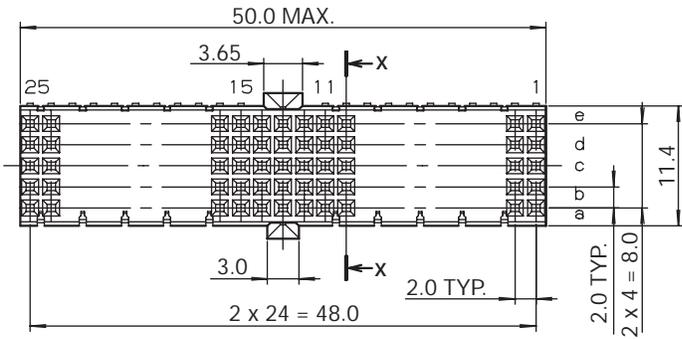
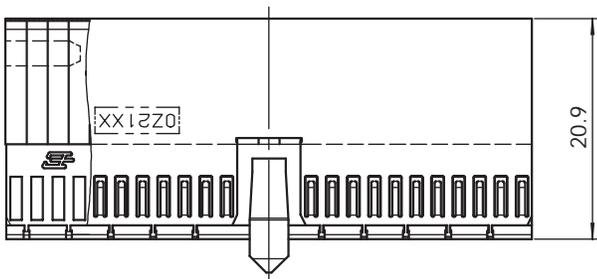
- 125 contacts in a 5 x 25 configuration
- Available with or without upper shield
- Designed for gas tight press-fit installation
- Available with or without upper ground return shield
- Prealignment guides
- This connector can be used by itself or in conjunction with Type A, B & C female connectors



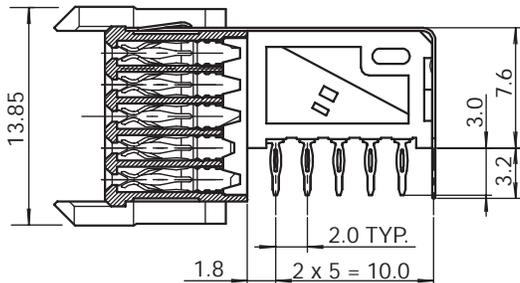
27 8071 125 003 863+ = Type AB Right Angle Female without upper shield

27 8071 125 013 863+ = Type AB Right Angle Female with upper shield

Plating Code	Contact Area	Press-fit Area	Under Coat
863	0.76µm min. Au	1.5-3.0µm Sn	1.2-3.0µm Ni



RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)



Type L Right Angle Female for Daughter Cards

Series 8074

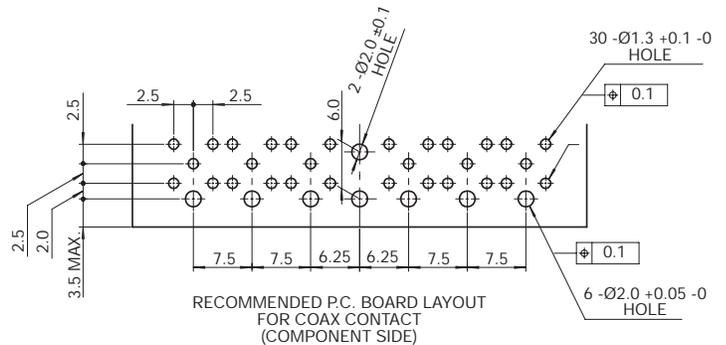
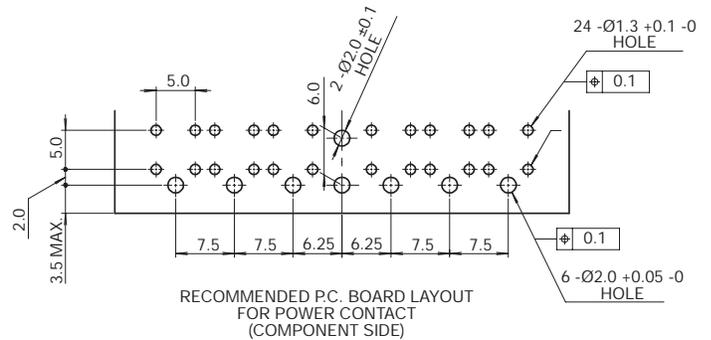
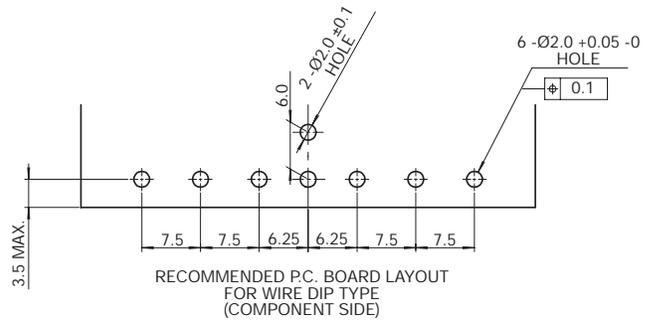
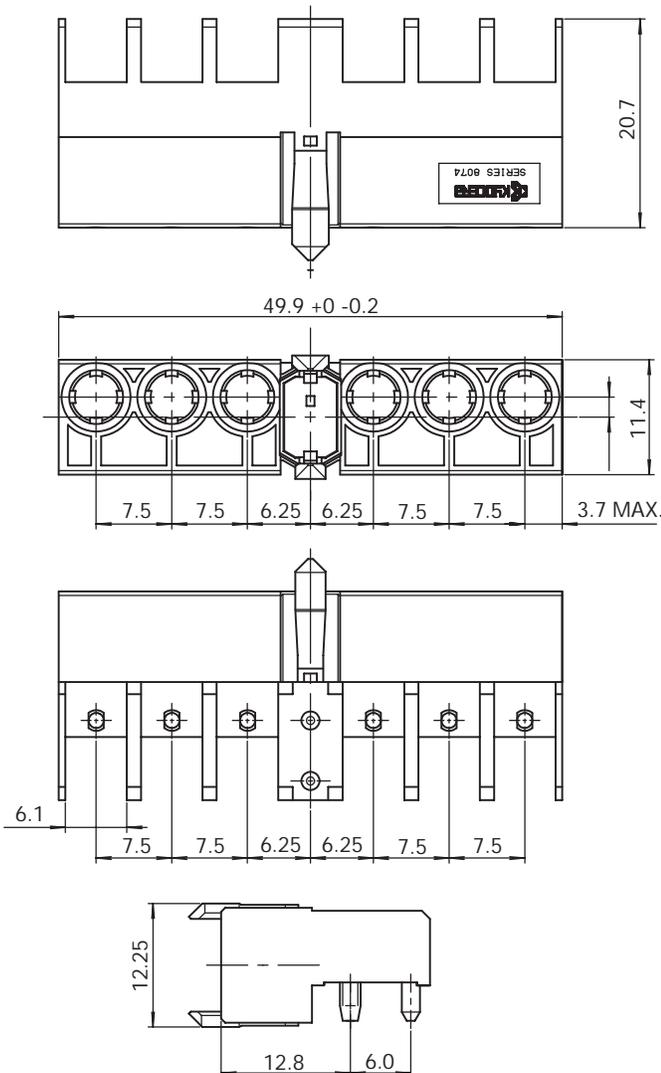


- 6 power or coax contact cavities configuration
- Center cavity with prealignment guides and keying option
- See pages 52 and 53 for keying options
- Available with or without board locating pegs
- This connector can be used by itself or in conjunction with Style B, C, or M connectors
- Contacts are ordered separately
- See pages 54 and 55 for available contacts



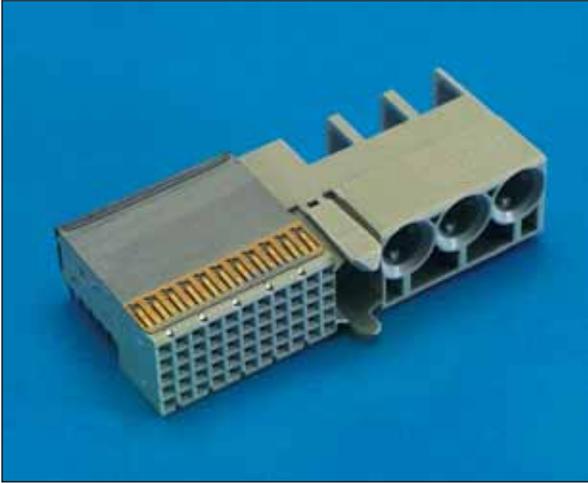
62 8074 006 011 007+ = Type L Right Angle Female with mounting peg

62 8074 006 111 007+ = Type L Right Angle Female without mounting peg



Type M Right Angle Female for Daughter Cards

Series 8075



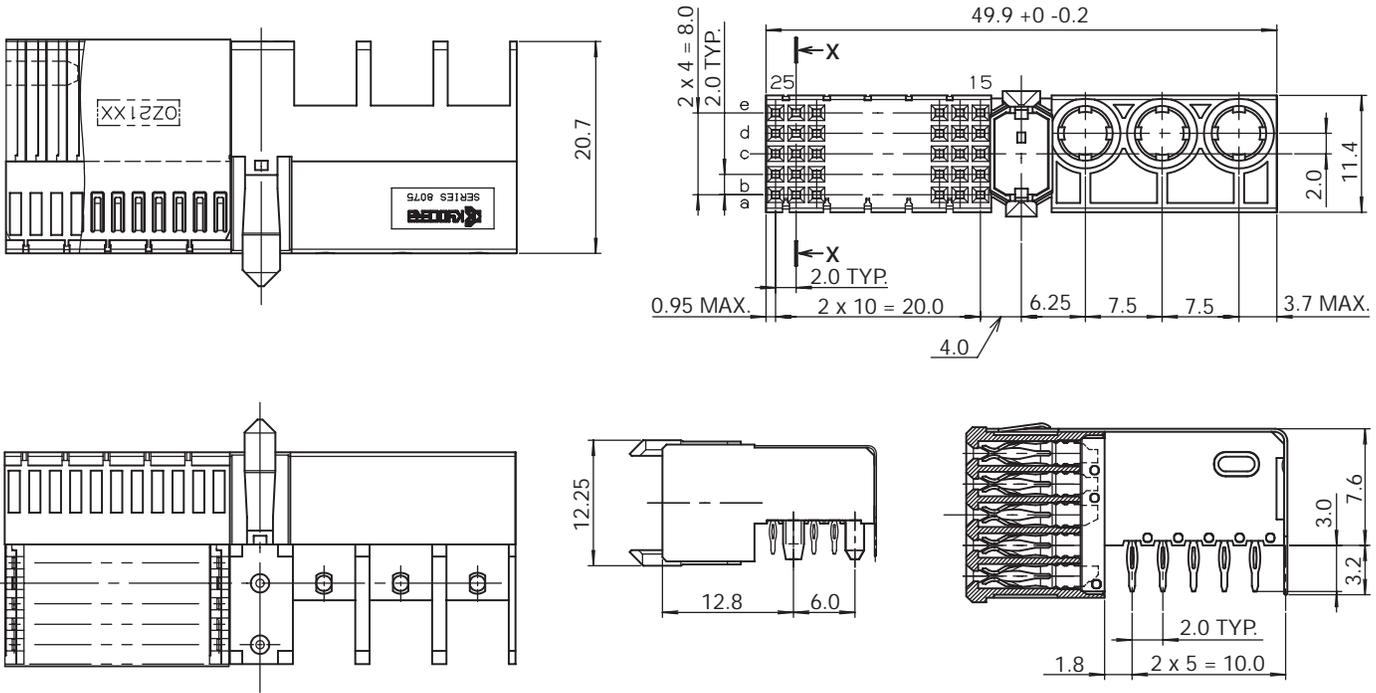
- 55 signal contacts in a 5 x 11 position configuration
- 3 positions for power or coax contacts
- Center cavity with prealignment guides and keying option
- See pages 52 and 53 for keying options
- Designed for gas tight press-fit installation
- This connector can be used by itself or in conjunction with Style A, B, C, or L connectors
- See pages 54 and 55 for available contacts



27 8075 355 011 XXX+ = Type M Right Angle Female with shield, with peg
 27 8075 355 012 XXX+ = Type M Right Angle Female with shield, without peg

XXX =

Plating Code	Contact Area	Press-fit Area	Under Coat
833	0.1µm min. Au.65µm Pd/Ni	1.5-3.0µm Sn	1.2-3.0µm Ni
863	0.76µm min. Au	1.5-3.0µm Sn	1.2-3.0µm Ni

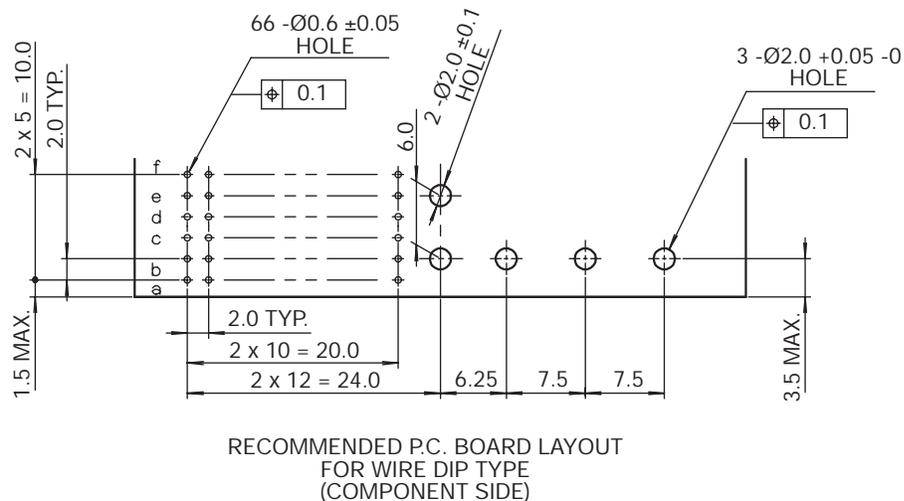
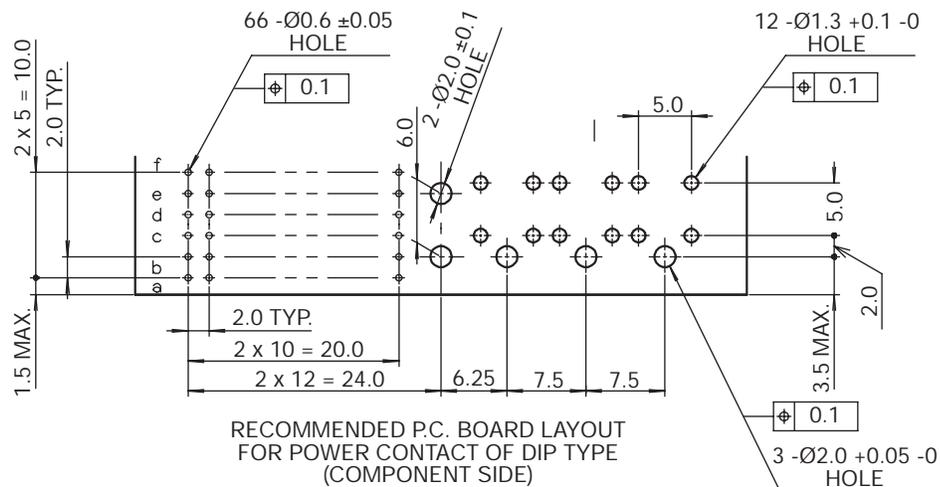
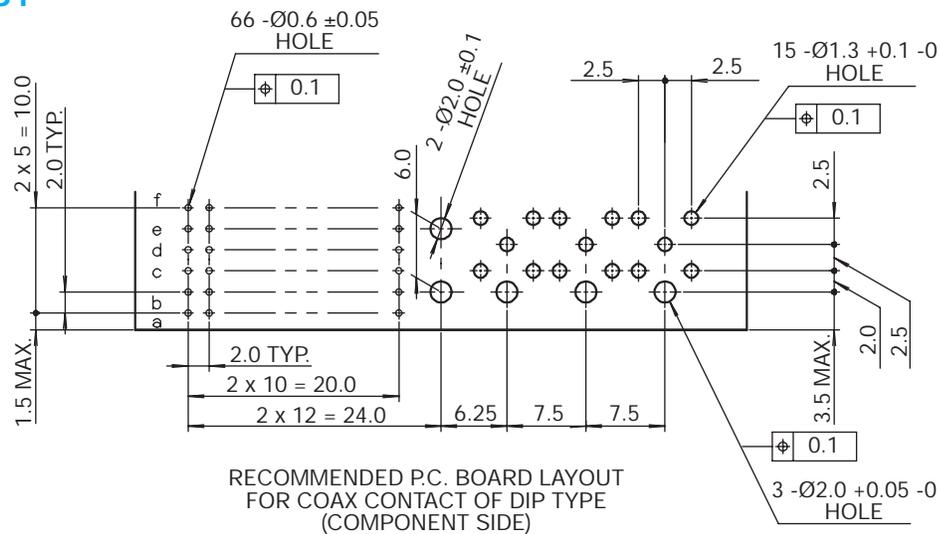


Type M Right Angle Female for Daughter Cards



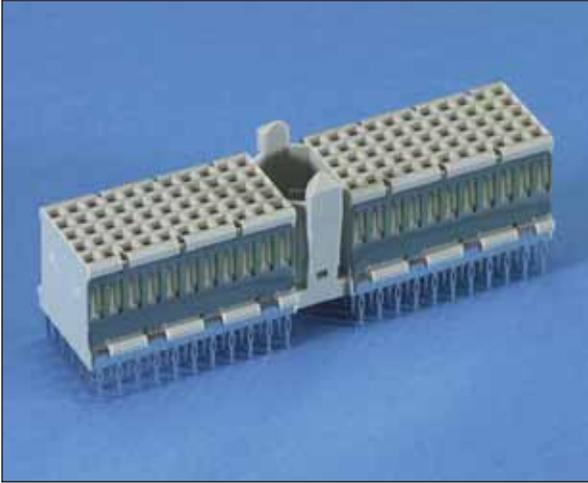
Series 8075

BOARD LAYOUT



Type A Vertical Female for Backplanes

Series 8072

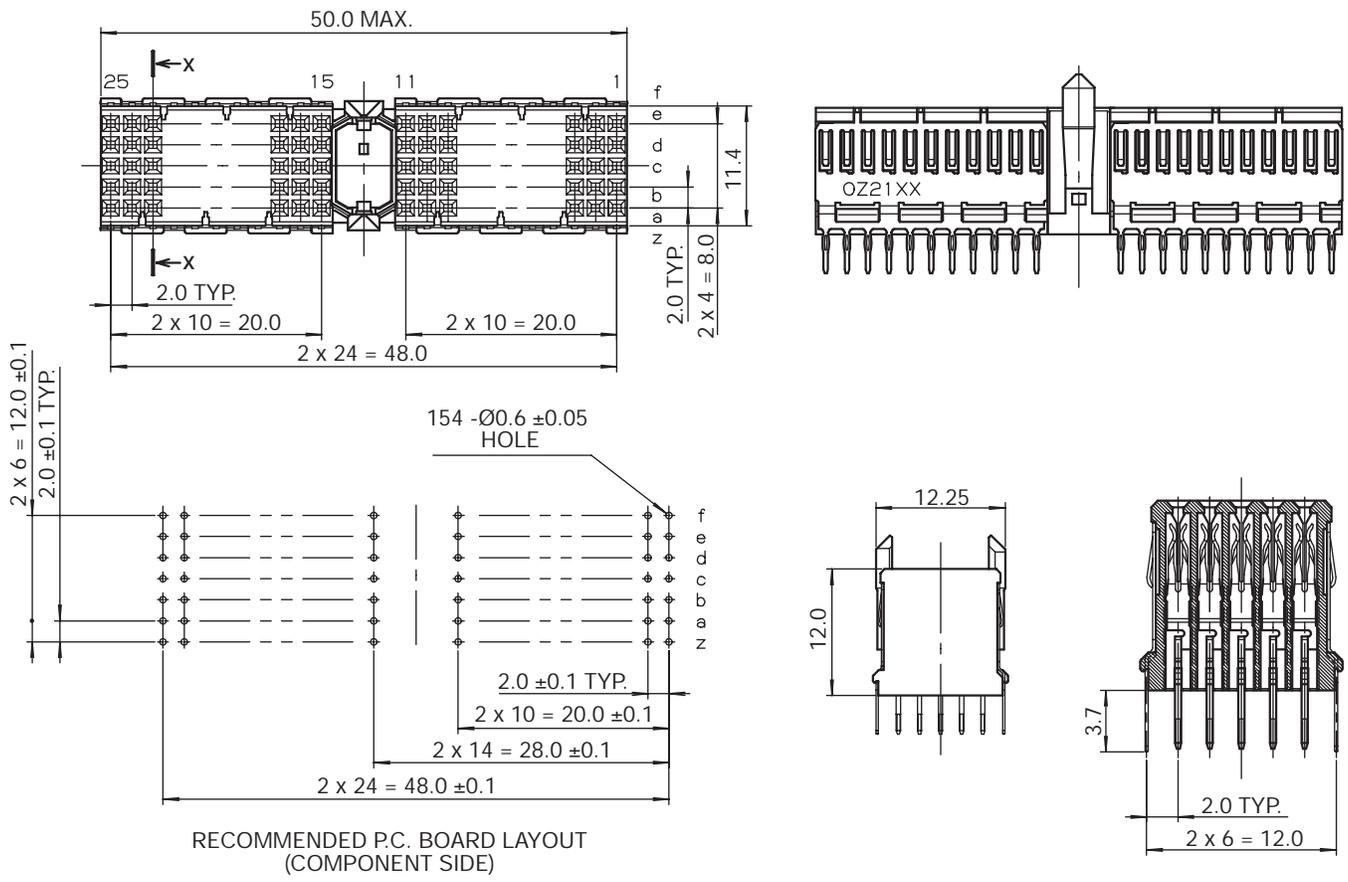


- 110 contacts in a 5 x 25 configuration
- Center cavity with prealignment guides and keying option (uses 3 positions)
- See pages 52 and 53 for keying options
- Available with or without side shields
- Designed for gas tight press-fit installation
- Can be used by itself or in conjunction with Type B & C vertical females



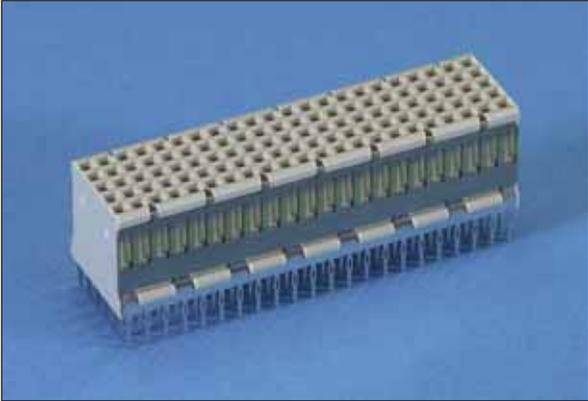
27 8072 110 001 863+ = Type A Vertical Female without side shields
 27 8072 110 011 863+ = Type A Vertical Female with side shields

Plating Code	Contact Area	Press-fit Area	Under Coat
863	0.76µm min. Au	1.5-3.0µm Sn	1.2-3.0µm Ni



Type B Vertical Female for Backplanes

Series 8072



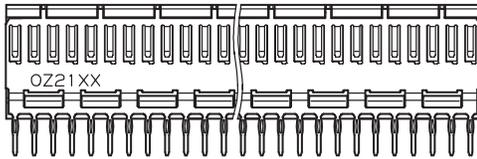
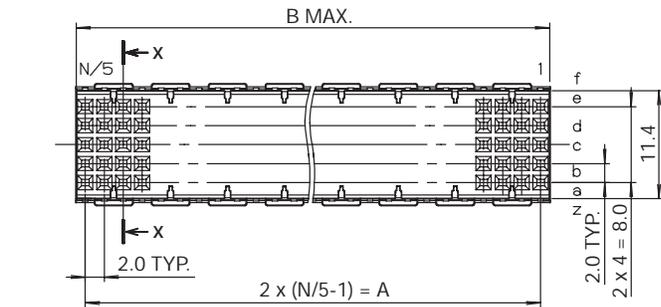
- 95, 110, 125 contacts in a 5 x 19, 5 x 22 or 5 x 25 configuration
- Available with or without side shields
- Designed for gas tight press-fit installation
- These connectors should be used in conjunction with a Type A Vertical Female connector



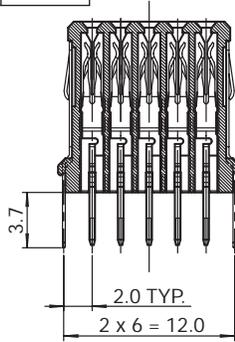
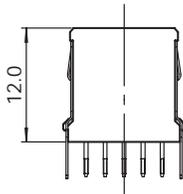
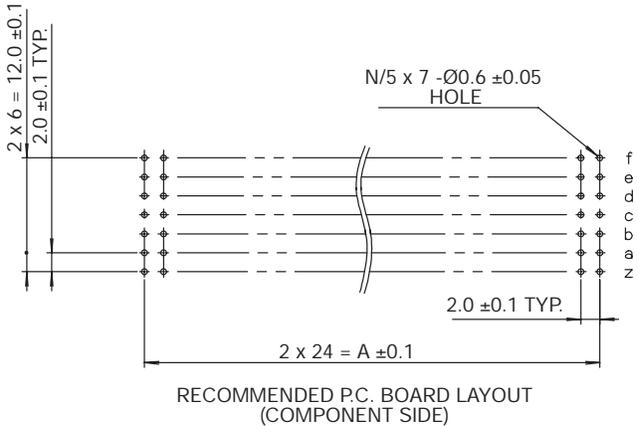
- 27 8072 095 001 XXX+** = Type B19 Vertical Female without side shields
- 27 8072 095 011 XXX+** = Type B19 Vertical Female with side shields
- 27 8072 110 000 XXX+** = Type B22 Vertical Female without side shields
- 27 8072 110 010 XXX+** = Type B22 Vertical Female with side shields
- 27 8072 125 000 863+** = Type B25 Vertical Female without side shields
- 27 8072 125 010 863+** = Type B25 Vertical Female with side shields

XXX =

Plating Code	Contact Area	Press-fit Area	Under Coat
833	0.1µm min. Au.65µm Pd/Ni	1.5-3.0µm Sn	1.2-3.0µm Ni
863	0.76µm min. Au	1.5-3.0µm Sn	1.2-3.0µm Ni

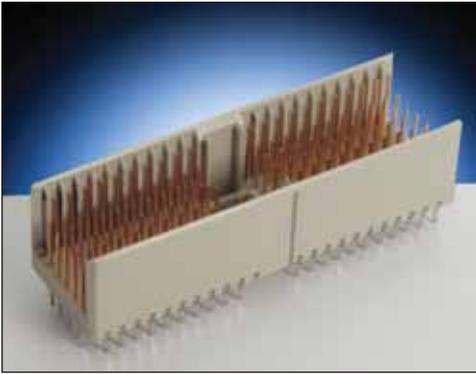


NO. OF POSITIONS	A	B
95	36.0	38.0
110	42.0	44.0
125	48.0	50.0



Vertical Male

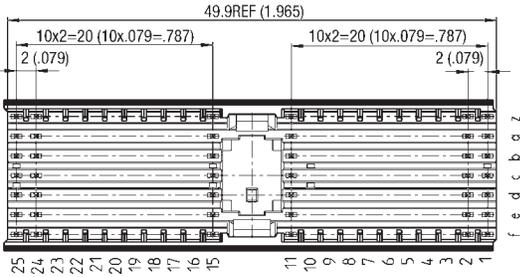
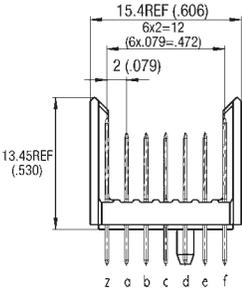
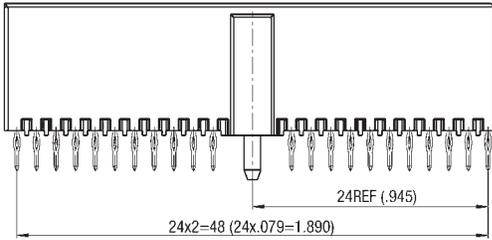
Series 7200 – Style A 25, 154 Contacts



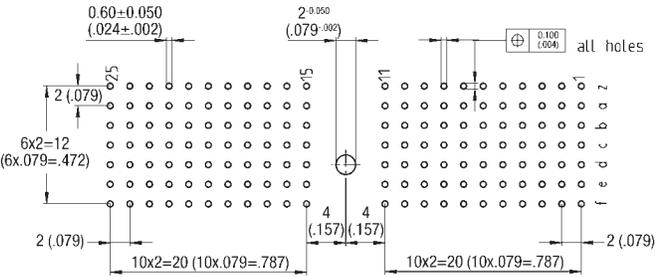
- Up to 110 signal contacts and 44 ground shield contacts in 5 or 5+2 rows of 25 positions
- Center cavity with keying option (uses 3 positions)
- See pages 52 and 53 for keying options
- Designed for gas tight press-fit installations
- This connector can be used by itself or in conjunction with Style B or C connectors
- Twelve different contact styles are available for customizing connector to exact specifications (complete form on page 57)
- Used in positions P1 and P4 of CompactPCI® specification
- Prealignment guides



DIMENSIONS: millimeters (inches)



LAYOUT



Vertical Male

Style A 25 – 154 Contacts



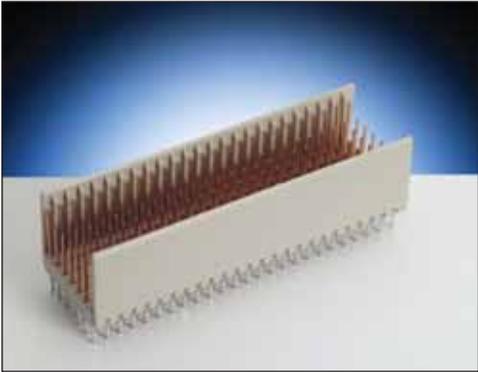
Pin Loading	Contacts	Performance Class	Part Number																																																																																																																																																																																																								
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<p align="center">CompactPCI® Hot Swap</p> <table border="1"> <tr><td>25</td><td>24</td><td>23</td><td>22</td><td>21</td><td>20</td><td>19</td><td>18</td><td>17</td><td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> <tr><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>z</td></tr> <tr><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>a</td></tr> <tr><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>b</td></tr> <tr><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>c</td></tr> <tr><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>d</td></tr> <tr><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>e</td></tr> <tr><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>f</td></tr> </table>	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	z	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	a	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	b	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	c	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	d	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	e	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	f	154	2	17 7200 154 006 002
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<p align="center">CompactPCI® Computer Telephony</p> <table border="1"> <tr><td>25</td><td>24</td><td>23</td><td>22</td><td>21</td><td>20</td><td>19</td><td>18</td><td>17</td><td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr> <tr><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>z</td></tr> <tr><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>a</td></tr> <tr><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>b</td></tr> <tr><td>B</td><td>B</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>c</td></tr> <tr><td>B</td><td>C</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>B</td><td>d</td></tr> <tr><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>e</td></tr> <tr><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>C</td><td>f</td></tr> </table>	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	z	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	a	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	b	B	B	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	c	B	C	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	d	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	e	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	f	100	2	17 7200 100 008 002	
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Technical description and dimensions see page 32

AVX will custom load connectors with any combination of the contacts in the table on page 35. Complete the form on page 57 and fax it to the number shown.

Vertical Male

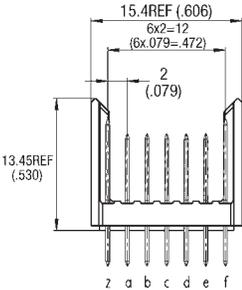
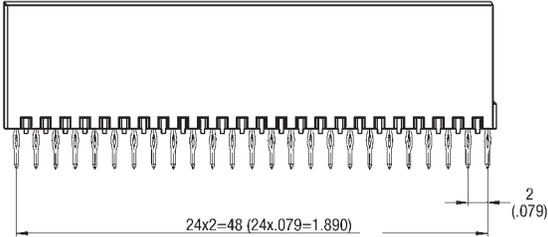
Series 7200 – Style B 25, 175 Contacts



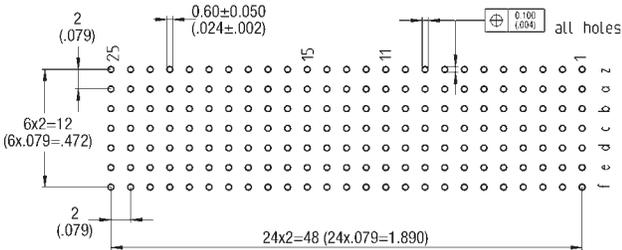
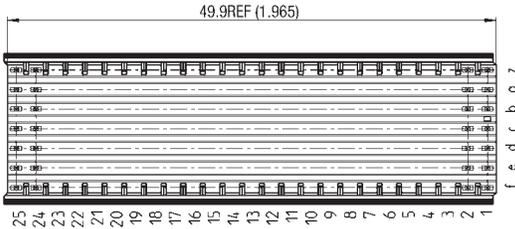
- Up to 125 signal contacts and 50 ground shield contacts in 5 or 5+2 rows of 25 positions
- Designed for gas tight press-fit installations
- This connector should be used in conjunction with Style A connector
- Twelve different contact styles are available for customizing connector to exact specifications (complete form on page 57)



DIMENSIONS: millimeters (inches)



LAYOUT



Vertical Male

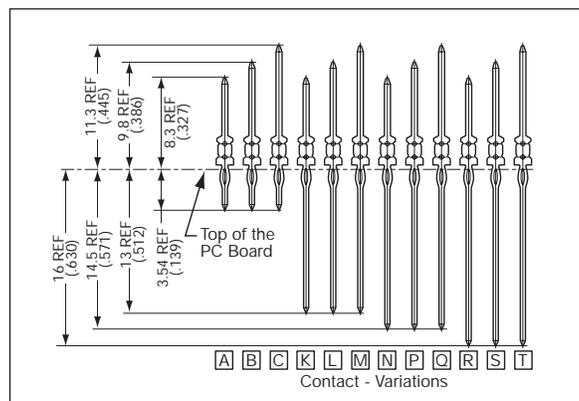
Style B 25 – 175 Contacts



Pin Loading	Contacts	Performance Class	Part Number
	175	2	17 7200 175 100 002
	175	2	17 7200 175 101 002
	175	2	17 7200 175 102 005
	175	2	17 7200 175 103 005
	175	2	17 7200 175 104 005
	125	2	17 7200 125 100 012

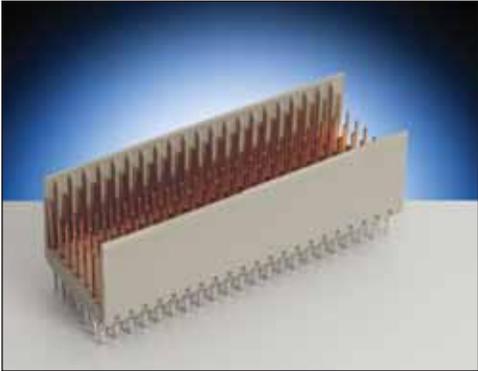
Technical description and dimensions see page 34

AVX will custom load connectors with any combination of the contacts in the table below. Complete the form on page 57 and fax it to the number shown.



Vertical Male

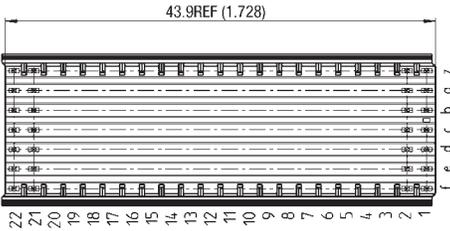
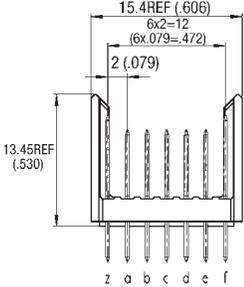
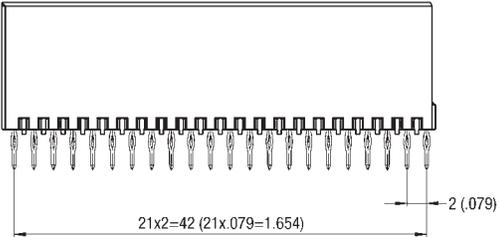
Series 7200 – Style B 22, 154 Contacts



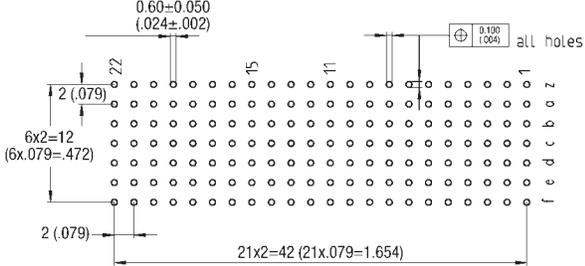
- Up to 110 signal contacts and 44 ground shield contacts in 5 or 5+2 rows of 22 positions
- Designed for gas tight press-fit installations
- Used in position P2 and P5 of the CompactPCI® specification
- Should be used in conjunction with a type A or AB connector
- Twelve different contact styles are available for customizing connector to exact specifications (complete form on page 57)



DIMENSIONS: millimeters (inches)



LAYOUT



Vertical Male

Style B 22 – 154 Contacts



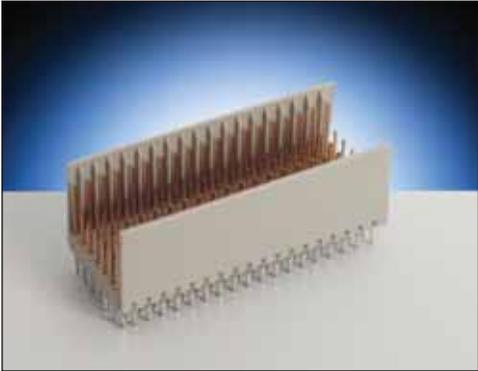
Pin Loading	Contacts	Performance Class	Part Number
	154	2	17 7200 154 200 002
	154	2	17 7200 154 201 002
<p>P2/ P5 CompactPCI®</p>	154	2	17 7200 154 202 005
<p>P2/ P5 CompactPCI®</p>	154	2	17 7200 154 203 005
<p>P2/ P5 CompactPCI®</p>	154	2	17 7200 154 204 005
	110	2	17 7200 110 200 012
<p>CompactPCI® Computer Telephony</p>	132	2	17 7200 132 211 002

Technical description and dimensions see page 36

AVX will custom load connectors with any combination of the contacts in the table on page 39. Complete the form on page 57 and fax it to the number shown.

Vertical Male

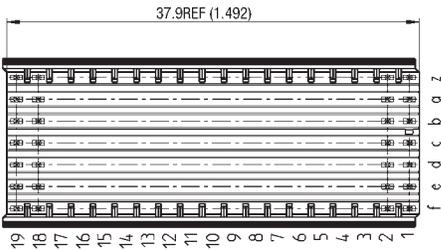
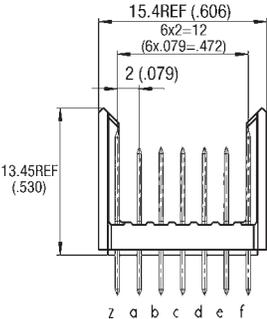
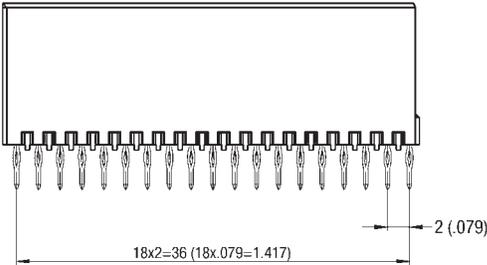
Series 7200 – Style B 19, 133 Contacts



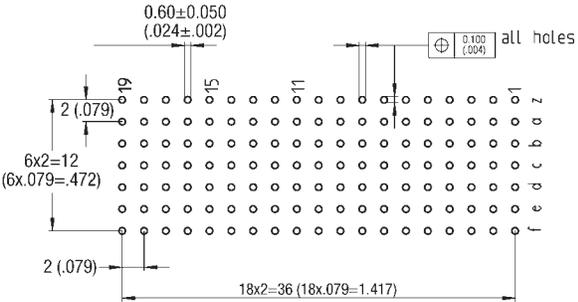
- Up to 95 signal contacts and 38 ground shield contacts in 5 or 5+2 rows of 19 positions
- Designed for gas tight press-fit installations
- This connector fills position P3 of the CompactPCI® specification and should be used with a type A or AB connector
- Twelve different contact styles are available for customizing connector to exact specifications (complete form on page 58)
- This connector also fills position J0 of the VME64 Extension Specification



DIMENSIONS: millimeters (inches)



LAYOUT



Vertical Male

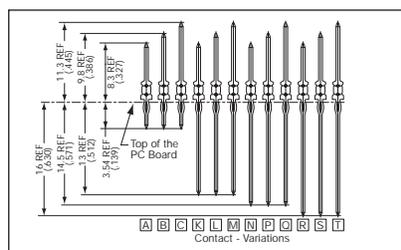
Style B 19 – 133 Contacts



Pin Loading	Contacts	Performance Class	Part Number
<p>P3 CompactPCI®</p>	133	2	17 7200 133 300 002
<p>P3 CompactPCI®</p>	133	2	17 7200 133 301 002
<p>P3 CompactPCI®</p>	133	2	17 7200 133 302 005
<p>P3 CompactPCI®</p>	133	2	17 7200 133 303 005
<p>P3 CompactPCI®</p>	133	2	17 7200 133 304 005
	95	2	17 7200 095 300 012

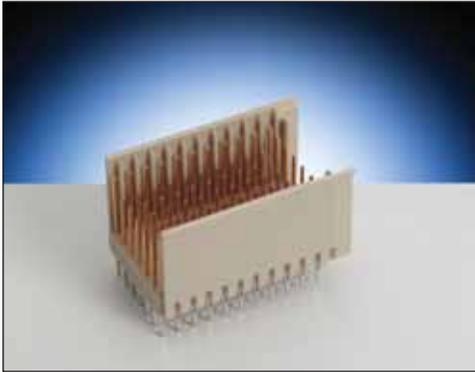
Technical description and dimensions see page 38

AVX will custom load connectors with any combination of the contacts in the table below. Complete the form on page 57 and fax it to the number shown.



Vertical Male

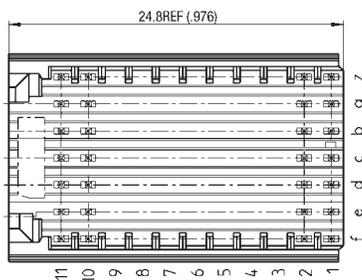
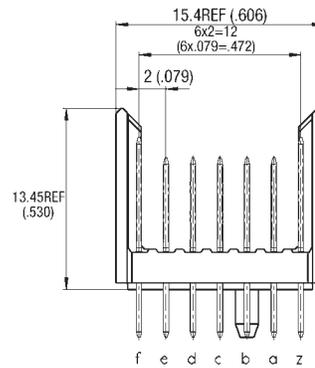
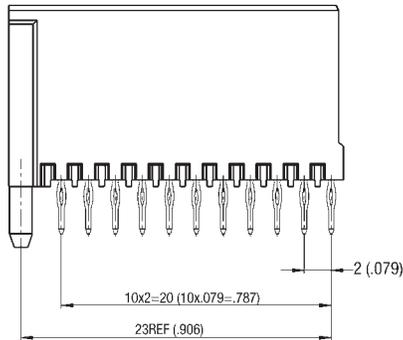
Series 7200 – Style C 11, 77 Contacts



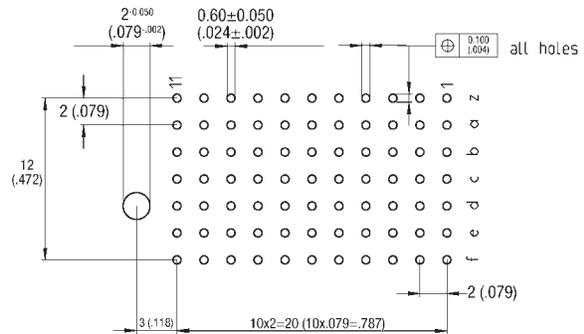
- Up to 55 signal contacts and 22 ground shield contacts in 5 or 5+2 rows of 11 positions
- This connector is designed for end positions only
- Designed for gas tight press-fit installations
- Twelve different contact styles are available for customizing connector to exact specifications (complete form on page 57)
- This connector should be used in conjunction with a Style A or AB connector



DIMENSIONS: millimeters (inches)



LAYOUT



Vertical Male

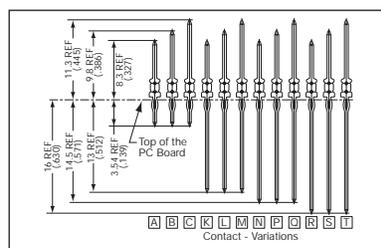
Style C 11 – 77 Contacts



Pin Loading	Contacts	Performance Class	Part Number																																																																																																
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Technical description and dimensions see page 40

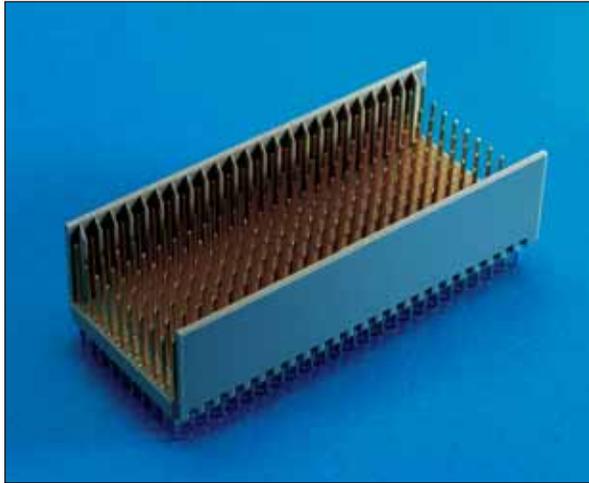
AVX will custom load connectors with any combination of the contacts in the table below. Complete the form on page 57 and fax it to the number shown.



Type E Vertical Male for Backplanes



Series 8077



- 250 signal contacts and 50 ground shield contacts in 8+2 x 25 position configuration
- Designed for gas tight press-fit installation
- This connector should be used in conjunction with a Type D style to ensure proper mating alignment
- Twelve different contact styles are available for customizing connector to exact specifications (see page 58)

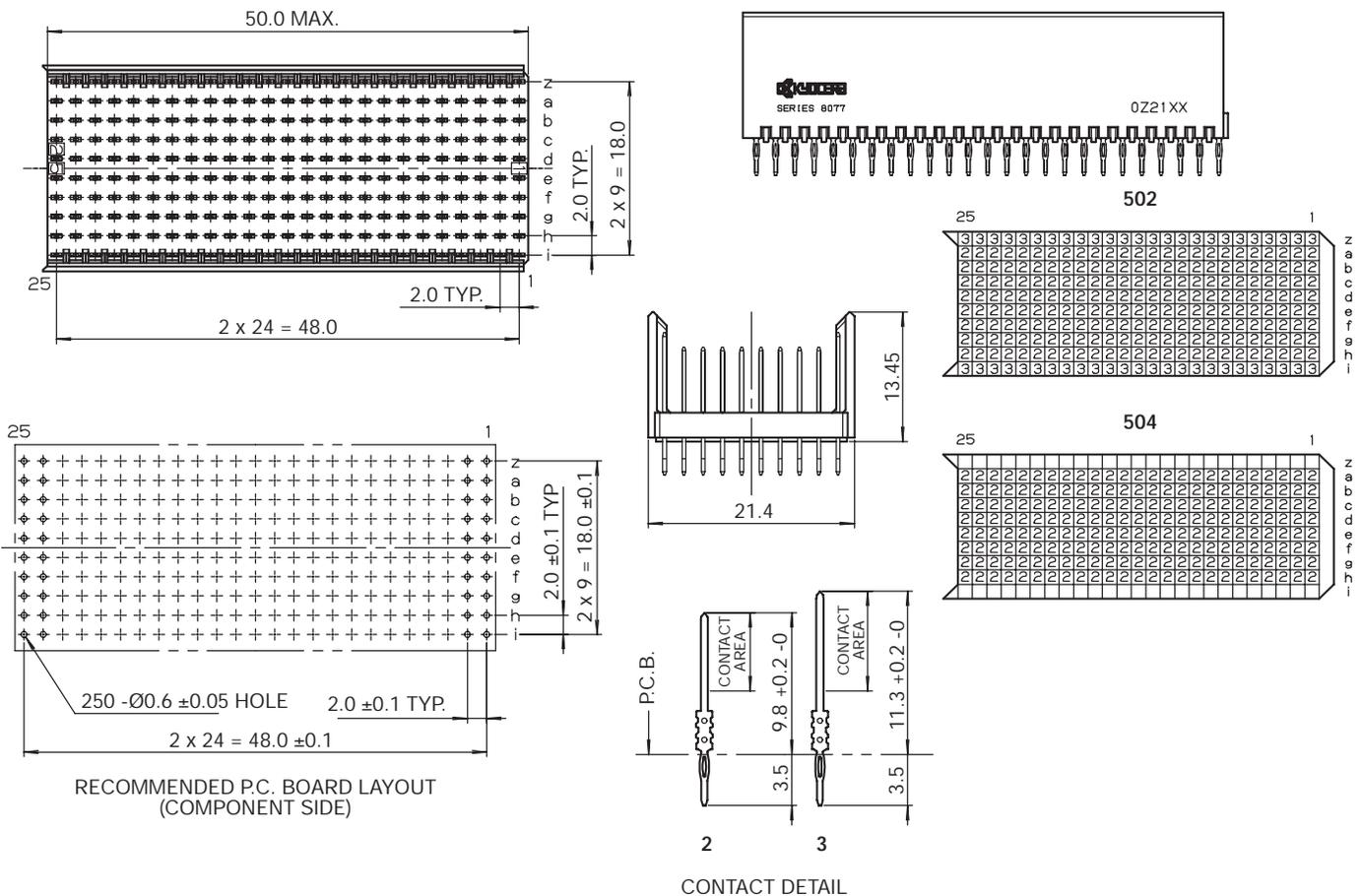


17 8077 250 502 XXX+ = 250 signal contacts and 50 ground contacts, Short Tail, L2,3

17 8077 200 504 XXX+ = 250 signal contacts, no ground contacts, Short Tail, L2

XXX =

Plating Code	Contact Area	Press-fit Area	Under Coat
833	0.1µm min. Au.65µm Pd/Ni	1.5-3.0µm Sn	1.2-3.0µm Ni
863	0.76µm min. Au	1.5-3.0µm Sn	1.2-3.0µm Ni



Type L Vertical Male for Backplanes



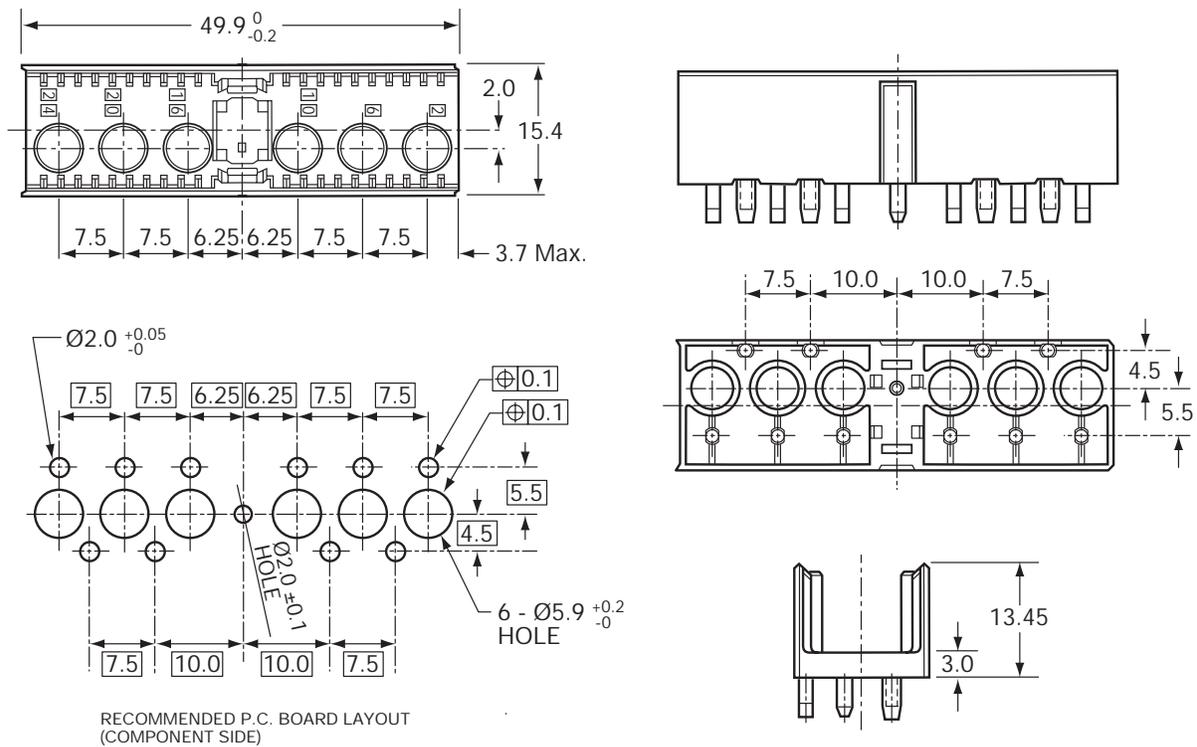
Series 8074



- 6 power or coax contact cavities
- Center cavity with prealignment guides and keying option
- See pages 52 and 53 for keying options
- Supplied with locating pegs for secure P.C. board mounting
- This connector can be used by itself or in conjunction with B, C, or M connectors
- Power and coax contacts are ordered separately
- See pages 54 and 55 for available contacts



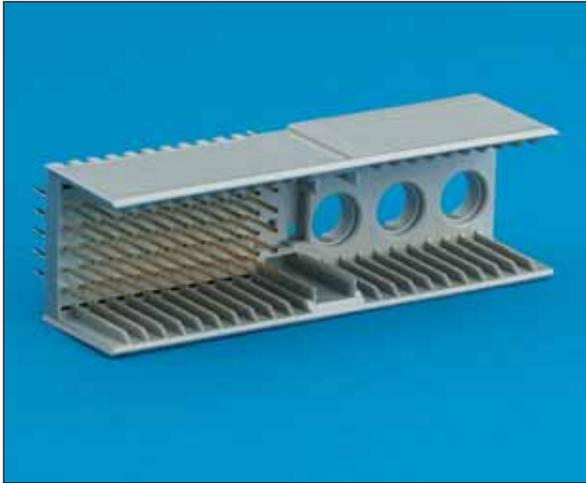
61 8074 006 001 007+ = Type L 6 position power connector with polarizing key, (housing only)



Type M Vertical Male Feed-To for Backplanes



Series 8075

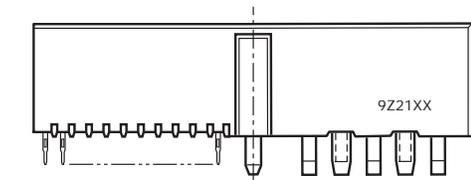
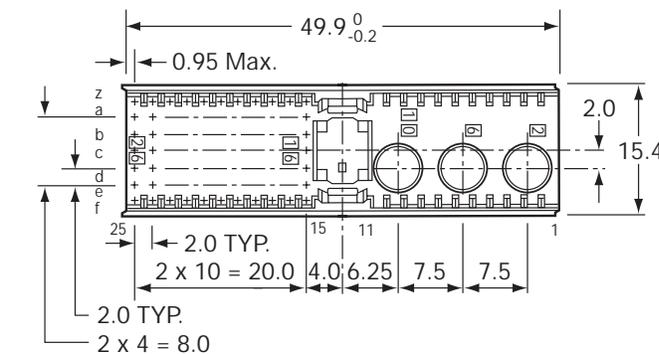


- 3 power contact cavities
- 55 signal contacts
- Center cavity with prealignment guides and keying option
- See pages 52 and 53 for keying options
- Designed for gas tight press-fit installation
- Supplied with locating pegs for secure P.C. board mounting
- Power and coax contacts are ordered separately
- See pages 54 and 55 for available contacts
- Twelve different signal contact styles are available for customizing connector to exact specifications (see page 58)

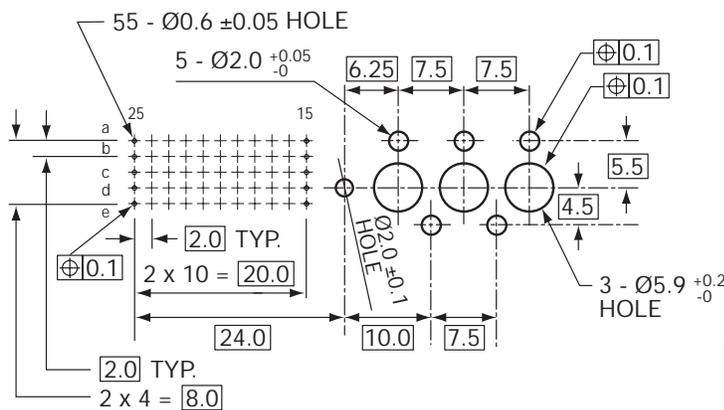
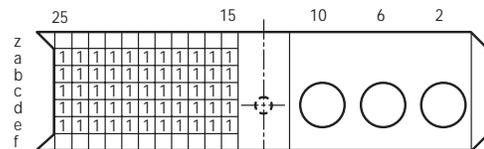


17 8075 355 501 863+ = Type M 3 position power connector with polarizing key, with 55 signal contacts, L1

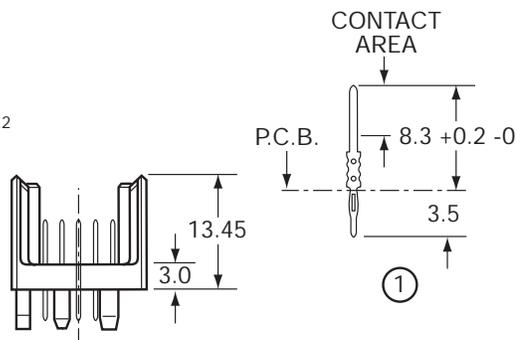
Plating Code	Contact Area	Press-fit Area	Under Coat
863	0.76µm min. Au	1.5-3.0µm Sn	1.2-3.0µm Ni



CONTACT LAYOUT (CONNECTOR MATING SIDE SHOWN)



RECOMMENDED P.C. BOARD LAYOUT (COMPONENT SIDE)



Type A Right Angle Male for Daughter Cards

Series 8072

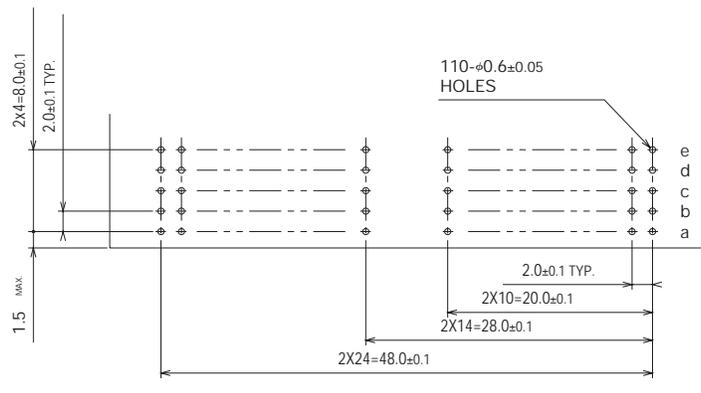
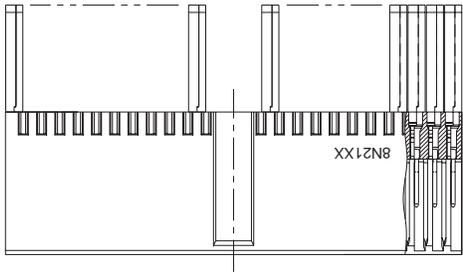
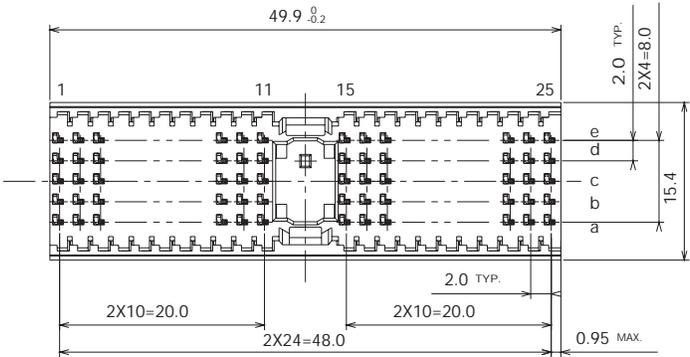


- 110 signal contacts
- Designed for gas tight press-fit installation
- Center cavity with prealignment guides and keying option (uses 3 positions)
- This connector can be used by itself or in conjunction with Style B or C connectors
- See pages 52 and 53 for keying options
- Daughter card applications

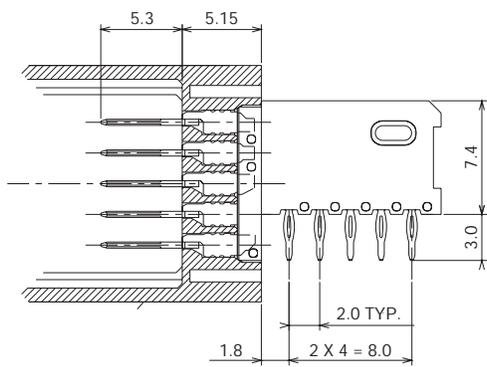


17 8072 110 001 863+ = Type A Right Angle Male

Plating Code	Contact Area	Press-fit Area	Under Coat
863	0.76µm min. Au	1.5-3.0µm Sn	1.2-3.0µm Ni

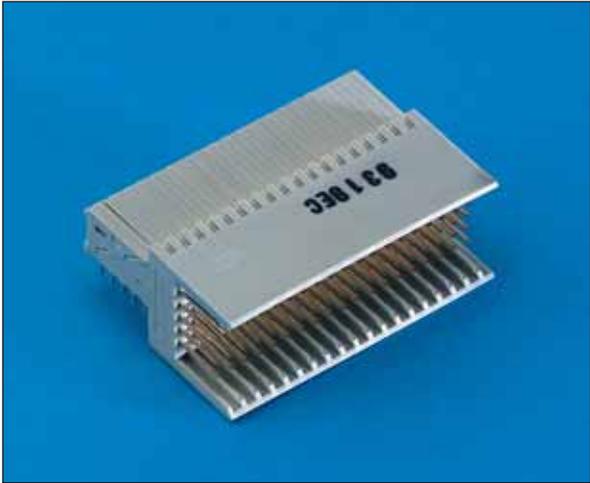


RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)



Type B Right Angle Male for Daughter Cards

Series 8072

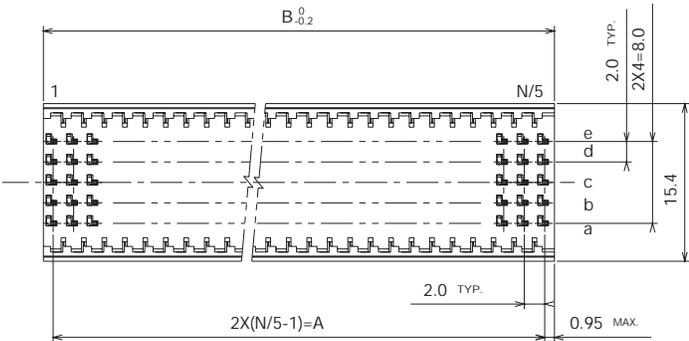


- 95, 110, 125 signal contacts
- Designed for gas tight press-fit installation
- This connector should be used in conjunction with a Type A style to ensure proper alignment
- Daughter card applications

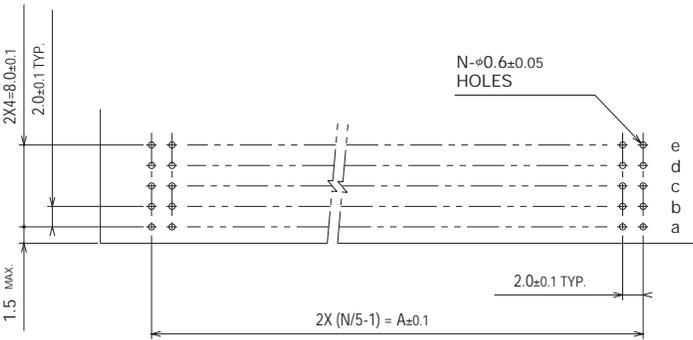


- 17 8072 095 000 863+** = Type B 19 Right Angle Male, 5x19 Positions
- 17 8072 110 000 863+** = Type B 22 Right Angle Male, 5x22 Positions
- 17 8072 125 000 863+** = Type B 25 Right Angle Male, 5x25 Positions

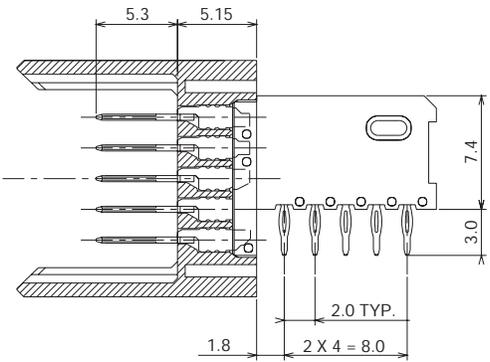
Plating Code	Contact Area	Press-fit Area	Under Coat
863	0.76µm min. Au	1.5-3.0µm Sn	1.2-3.0µm Ni



P/N	A	B
17 8072 095 000 863	36.0	37.9
17 8072 110 000 863	42.0	43.9
17 8072 125 000 863	48.0	49.9



RECOMMENDED P.C. BOARD LAYOUT
(COMPONENT SIDE)



Type C Right Angle Male for Daughter Cards

Series 8072

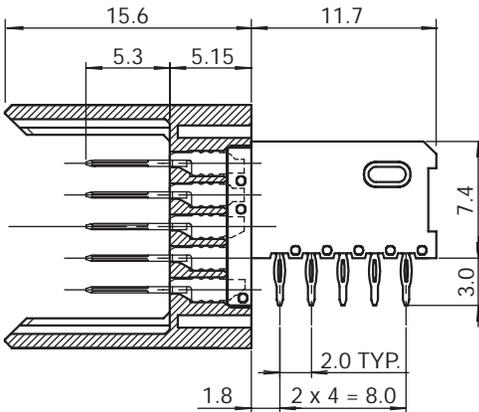
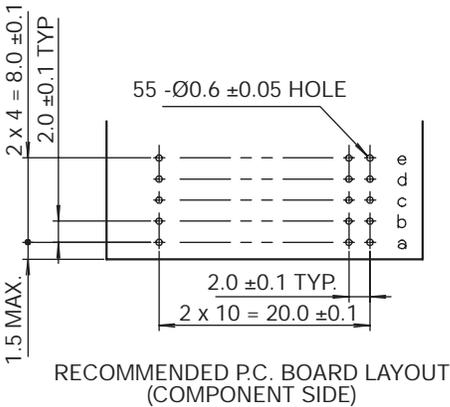
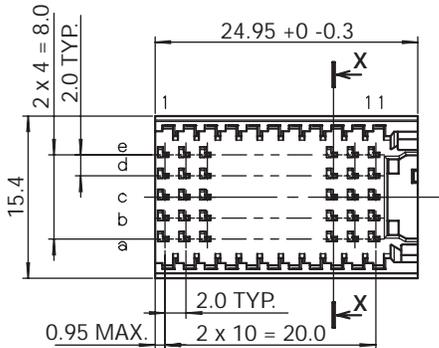
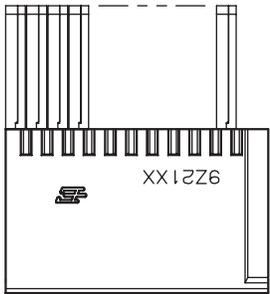


- 55 signal contacts in a 5 x 11 position configuration
- Prealignment guide
- Designed for gas tight press-fit installation
- This connector should be used in conjunction with Style A & B connectors
- Used for end position only



17 8072 055 001 863+ = 55 signal contacts

Plating Code	Contact Area	Press-fit Area	Under Coat
863	0.76µm min. Au	1.5-3.0µm Sn	1.2-3.0µm Ni



Press-fit Tools

Series 7200



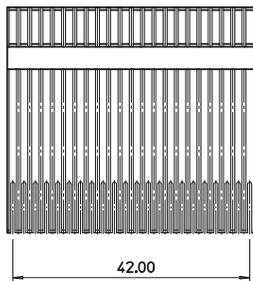
AVX 2mm Hard Metric right angle female connectors are designed to be assembled to the board without the need for a special press-fit tool. These connectors can be installed using the "flat rock" method. The AVX modular tool system for 2mm Hard Metric vertical headers can be grouped to

allow for multiple press-fit operations. This makes it possible to install several connectors in a row, with one press operation. The grooves on the sides of the tools allow for easy installation into an assembly press.

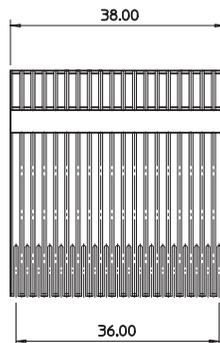
PART NUMBER SYSTEM (VERTICAL MALE CONNECTORS)

Part Number	Size	Pins	"n"	Dim. "Y"	Dim. "X"
06 7200 0201 00 000	B25	175	25	48.00	50.00
06 7200 0202 00 000	A	154	22	48.00	50.00
06 7200 0203 00 000	B22	154	22	42.00	44.00
06 7200 0204 00 000	B19	133	19	36.00	38.00
06 7200 0205 00 000	C11	77	11	20.00	22.00

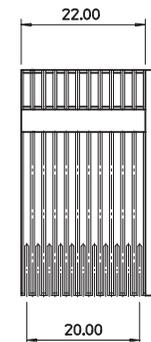
06 7200 0203 00 000
Type B22 (7 x 22)
154 Pins



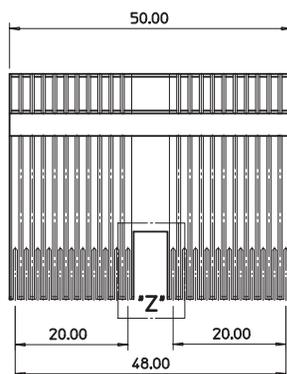
06 7200 0204 00 000
Type B19 (7 x 19)
133 Pins



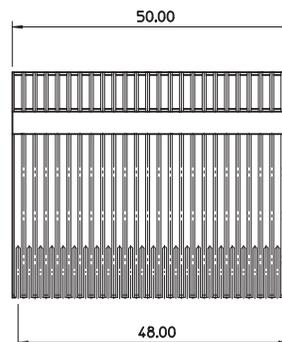
06 7200 0205 00 000
Type C (7 x 11)
77 Pins



06 7200 0202 00 000
Type A (7 x 22)
154 Pins with Coding



06 7200 0201 00 000
Type B25 (7 x 25)
175 Pins

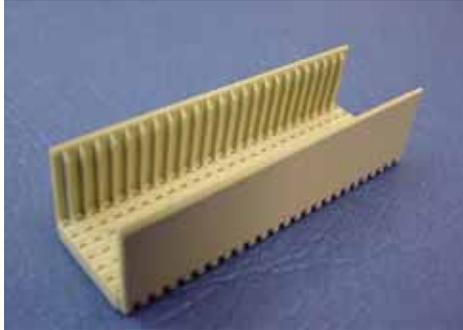


Shroud

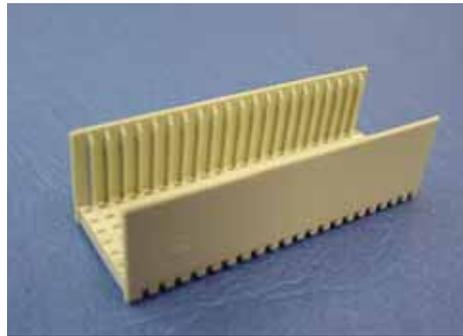
Type B for Midplane and Rear I/O Assemblies Series 7200

- Use in conjunction with feedthru connectors
- When installed over the long tails, a male connector is created
- Enables rear Input/Output or midplane applications with daughter cards or cable assemblies
- No spacer required
- 3 heights available to accommodate different board thicknesses
- Other versions available upon request

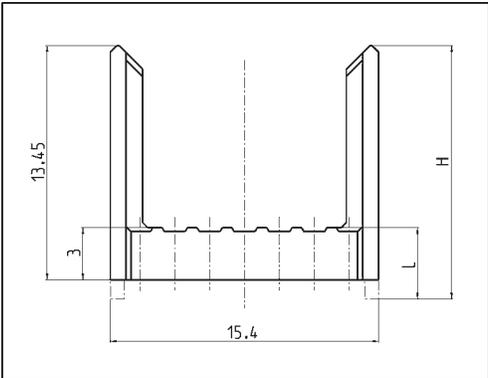
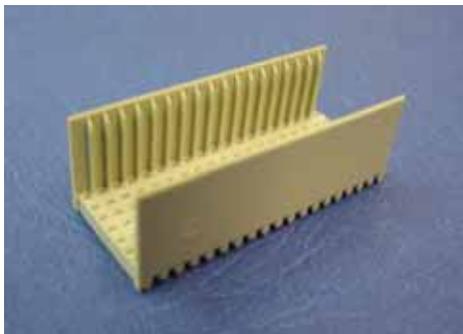
- 67 7200 6124 00 000** = B 175 cavities (25 position) L=3.9mm; H=14.35mm; PCB Thickness 4.0mm
- 67 7200 6164 00 000** = B 175 cavities (25 position) L=4.7mm; H=15.15mm; PCB Thickness 3.2mm
- 67 7200 6184 00 000** = B 175 cavities (25 position) L=5.3mm; H=15.75mm; PCB Thickness 2.4mm
- 67 7200 6194 00 000** = B 175 cavities (25 position) L=6.1mm; H=16.55mm; PCB Thickness 1.6mm



- 67 7200 6224 00 000** = B 154 cavities (22 position) L=3.9mm; H=14.35mm; PCB Thickness 4.0mm
- 67 7200 6264 00 000** = B 154 cavities (22 position) L=4.7mm; H=15.15mm; PCB Thickness 3.2mm
- 67 7200 6284 00 000** = B 154 cavities (22 position) L=5.3mm; H=15.75mm; PCB Thickness 2.4mm
- 67 7200 6294 00 000** = B 154 cavities (22 position) L=6.1mm; H=16.55mm; PCB Thickness 1.6mm



- 67 7200 6324 00 000** = B 133 cavities (19 position) L=3.9mm; H=14.35mm; PCB Thickness 4.0mm
- 67 7200 6364 00 000** = B 133 cavities (19 position) L=4.7mm; H=15.15mm; PCB Thickness 3.2mm
- 67 7200 6384 00 000** = B 133 cavities (19 position) L=5.3mm; H=15.75mm; PCB Thickness 2.4mm
- 67 7200 6394 00 000** = B 133 cavities (19 position) L=6.1mm; H=16.55mm; PCB Thickness 1.6mm



Shroud

Type A and C for Midplane and Rear I/O Assemblies Series 7200



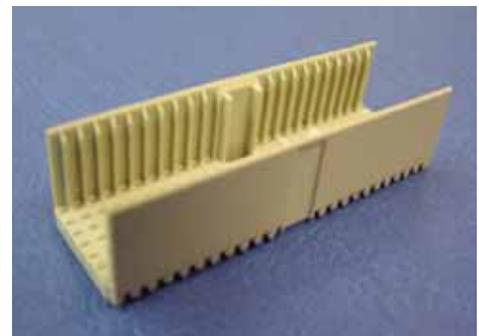
- Used in conjunction with feedthru connectors
- When installed over the long tails, a male connector is created
- Used in conjunction with feedthru connectors
- When installed over the long tails, a male connector is created
- Enables rear Input/Output or midplane applications with daughter cards or cable assemblies
- No spacer required
- 3 heights available to accommodate different board thicknesses
- Other versions available upon request

67 7200 6024 00 000 = P1, P4 Type A 154 cavities (22 position)
L=3.9mm; H=14.35mm; PCB Thickness 4.0mm

67 7200 6064 00 000 = P1, P4 Type A 154 cavities (22 position)
L=4.7mm; H=15.15mm; PCB Thickness 3.2mm

67 7200 6084 00 000 = P1, P4 Type A 154 cavities (22 position)
L=5.3mm; H=15.75mm; PCB Thickness 2.4mm

67 7200 6094 00 000 = P1, P4 Type A 154 cavities (22 position)
L=6.1mm; H=16.55mm; PCB Thickness 1.6mm

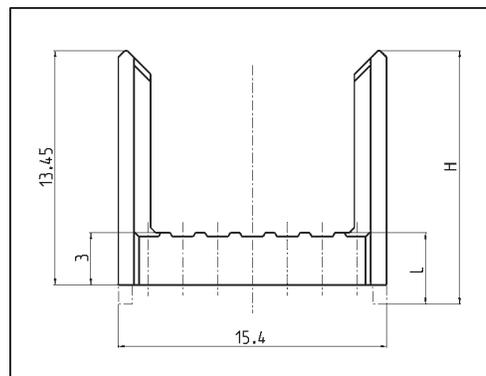
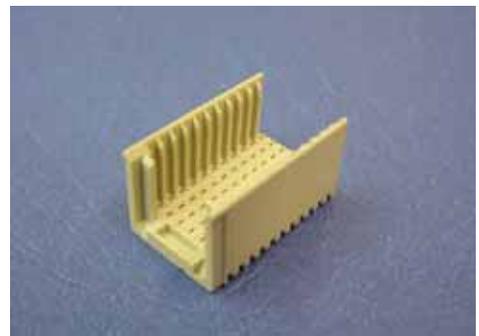


67 7200 6424 00 000 = Type C 77 cavities (11 position) L=3.9mm;
H=14.35mm; PCB Thickness 4.0mm

67 7200 6464 00 000 = Type C 77 cavities (11 position)
L=4.7mm; H=15.15mm; PCB Thickness 3.2mm

67 7200 6484 00 000 = Type C 77 cavities (11 position)
L=5.3mm; H=15.75mm; PCB Thickness 2.4mm

67 7200 6494 00 000 = Type C 77 cavities (11 position)
L=6.1mm; H=16.55mm; PCB Thickness 1.6mm



Coding Keys

Type A Male (Backplane) Type A Female (Daughter Card)

CompactPCI® supports two types of voltages (3.3V and 5.0V). Coding keys are used to prevent damage by inserting the wrong boards into a system. Keys are snapped into the center polarization cavity. 3.3V cards are coded cadmium yellow and 5.0V are brilliant blue.

In total there are 70 different codings available which can be used in conjunction with the CompactPCI® specification or upon customer's requirement.

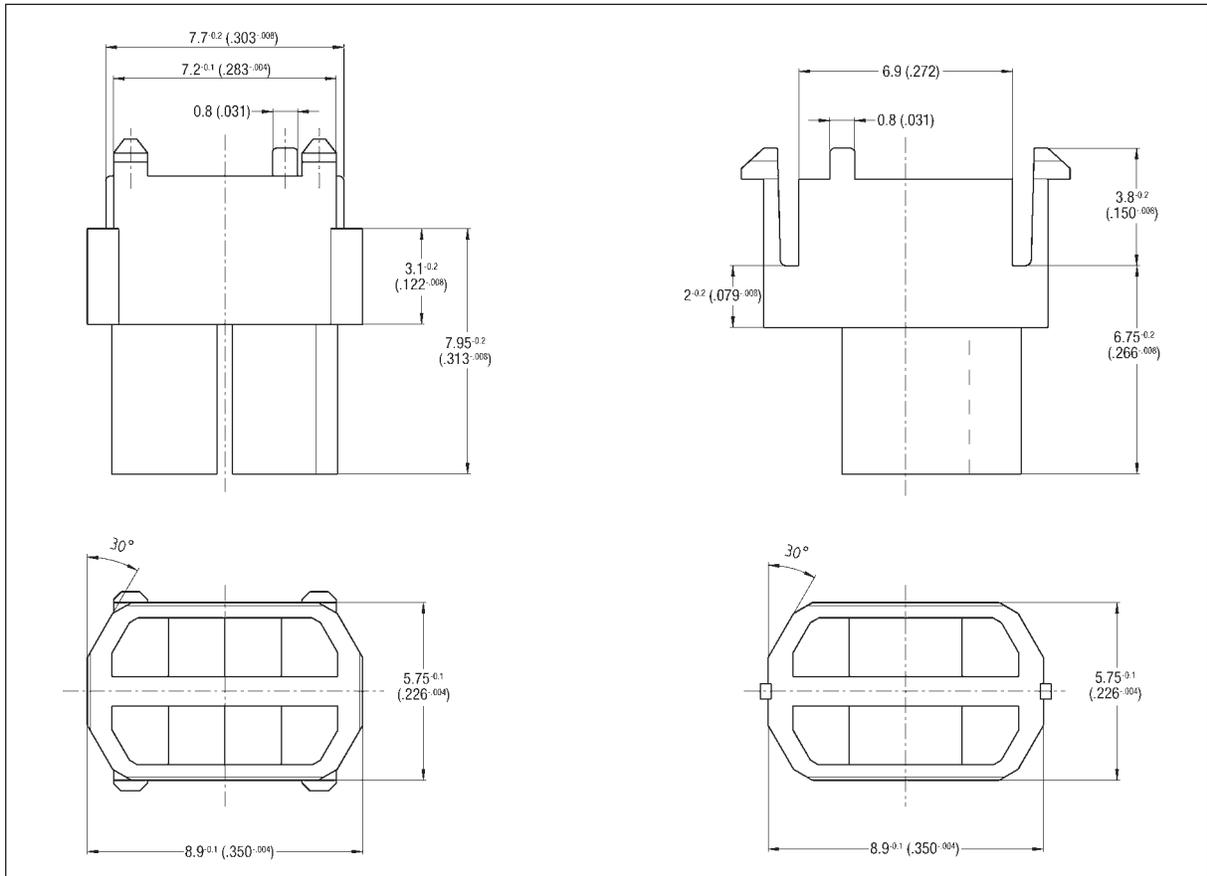


MALE

Cadmium	Brilliant	Pastel	Strawberry
Yellow	Blue	Orange	Red

FEMALE

Cadmium	Brilliant	Pastel	Strawberry
Yellow	Blue	Orange	Red



Coding Keys

Type A Male (Backplane)
Type A Female (Daughter Card)

MALE			FEMALE		
Coding Key	Color	Part Number	Coding Key	Color	Part Number
	Nut brown RAL 8011	67 7200 7014 01236		Nut brown RAL 8011	67 7200 7114 04578
	Strawberry Red Computer Telephony Spec. RAL 3018	67 7200 7014 01248		Strawberry Red Computer Telephony Spec. RAL 3018	67 7200 7114 03567
	Blue Lilac RAL 4005	67 7200 7014 01356		Blue Lilac RAL 4005	67 7200 7114 02478
	Brilliant Blue 5.0 V C-PCI RAL 5007	67 7200 7014 01567		Brilliant Blue 5.0 V C-PCI RAL 5007	67 7200 7114 02348
	Reseda Green RAL 6011	67 7200 7014 02578		Reseda Green RAL 6011	67 7200 7114 01346
	Cadmium Yellow 3.3 V C-CPI RAL 1021	67 7200 7014 03456		Cadmium Yellow 3.3 V C-CPI RAL 1021	67 7200 7114 01278
	Slate Grey RAL 7015	67 7200 7014 03467		Slate Grey RAL 7015	67 7200 7114 01258
	Steel Blue RAL 5011	67 7200 7014 03478		Steel Blue RAL 5011	67 7200 7114 01256
	Pastel Orange RAL 2003	67 7200 7014 03568		Pastel Orange RAL 2003	67 7200 7114 01247
	Ocher Yellow RAL 1024	67 7200 7014 04678		Ocher Yellow RAL 1024	67 7200 7114 01235

High Power Contacts for L and M Connectors



Series 8489

HIGH POWER PLUG CONTACT FOR PLUG SERIES 8074/8075

Variation	Termination	ØA*	Performance	Ordering Code
	SOLDER	.189 (4.80)	40 Ampere max.	60 8489 040 001 049
	SOLDER	.138 (3.50)	30 Ampere max.	60 8489 040 002 049
	SOLDER	.110 (2.80)	20 Ampere max.	60 8489 040 003 049
	SOLDER	.067 (1.70)	10 Ampere max.	60 8489 040 004 049
	CRIMP	.189 (4.80)	40 Ampere max.	60 8489 040 005 049
	CRIMP	.138 (3.50)	30 Ampere max.	60 8489 040 006 049
	CRIMP	.110 (2.80)	20 Ampere max.	60 8489 040 007 049
	CRIMP	.067 (1.70)	10 Ampere max.	60 8489 040 008 049

HIGH POWER RECEPTACLE CONTACT FOR RECEPTACLE SERIES 8074/8075

Variation	Termination	ØA*	Performance	Ordering Code
	P.C.	Contact	40 Ampere max.	60 8489 050 009 049
	SOLDER	.189 (4.80)	40 Ampere max.	60 8489 050 001 049
	SOLDER	.138 (3.50)	30 Ampere max.	60 8489 050 002 049
	SOLDER	.110 (2.80)	20 Ampere max.	60 8489 050 003 049
	SOLDER	.067 (1.70)	10 Ampere max.	60 8489 050 004 049
	CRIMP	.189 (4.80)	40 Ampere max.	60 8489 050 005 049
	CRIMP	.138 (3.50)	30 Ampere max.	60 8489 050 006 049
	CRIMP	.110 (2.80)	20 Ampere max.	60 8489 050 007 049
	CRIMP	.067 (1.70)	10 Ampere max.	60 8489 050 008 049

CRIMPING PLIER FOR HIGH POWER CONTACTS

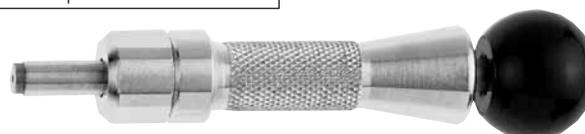
Part Number

06 8489 001 010 0007



EXTRACTION TOOL FOR ALL CONTACT TYPES

Part Number	Length
06 8489 001 001 000	2.755 (70.00)
06 8489 001 002 000	7.874 (200.00)
66 8489 001 003 000	Replacement tip



Coax Contacts for L and M Connectors



Series 8489

COAX PLUG CONTACT FOR SERIES 8074/8075

Dimensions: mm/inches

Variation	Termination		Dimensions			Wire Type	Order Code
	Outer Conductor	Inner Conductor	ØA	ØB	ØC		
	CRIMP	SOLDER	1.05/0.041	1.70/0.067	2.25/0.089	RG 196, 178	60 8489 020 001 049
	CRIMP	SOLDER	1.70/0.067	2.70/0.106	3.20/0.126	RG 179, 316 (single), RG 187	60 8489 020 002 049
	CRIMP	SOLDER	1.70/0.067	2.70/0.106	3.58/0.141	RG 316 (braided), RG 187 (double)	60 8489 020 003 049
	SOLDER	SOLDER	1.30/0.051	1.90/0.075	2.20/0.087	RG 178	60 8489 020 004 049
	SOLDER	SOLDER	2.25/0.089	2.90/0.114	3.20/0.126	RG 179	60 8489 020 005 049

COAX RECEPTACLE CONTACT FOR SERIES 8074/8075

Dimensions: mm/inches

Variation	Termination		Dimensions			Wire Type	Order Code
	Outer Conductor	Inner Conductor	ØA	ØB	ØC		
	CRIMP	SOLDER	1.70/0.067	2.70/0.106	3.55/0.140	RG 187	60 8489 030 001 049
	CRIMP	SOLDER	1.70/0.067	2.70/0.106	3.20/0.126	RG 316, RG 179, RG 188, RG 174	60 8489 030 002 049
	CRIMP	SOLDER	1.05/0.041	1.70/0.067	2.25/0.089	RG 178	60 8489 030 003 049
	SOLDER	SOLDER	2.25/0.089	2.90/0.114	3.20/0.126	RG 179	60 8489 030 004 049
	SOLDER	SOLDER	1.30/0.051	1.90/0.075	2.20/0.087	RG 178	60 8489 030 005 049
	P.C.	P.C.					60 8489 030 008 049

CRIMPING PLIER FOR COAX CONTACTS (WITHOUT CRIMPING INSERTS)

Part Number

36 8489 001 020 001



CRIMPING INSERTS

Part Number	Cable Type
66 8489 00 102 1 000	RG 196 A/U RG 178 B/U
66 8489 00 102 2 000	RG 188 A/U RG 174 A/U RG 316 /U RG 179 B/U RG 187 A/U
66 8489 00 102 3 000	RG 316 /U

Special Contacts for L and M Connectors



TECHNICAL DATA

	Coaxial Contacts	High Current Contacts
Contact Material	copper alloy	copper alloy
Contact Plating	gold over nickel	gold over nickel
Performance Class	1 - 500 mating cycles	1 - 500 mating cycles
Insulator Material	PTFE	
Temperature Range	-55°C ~ +125°C	-55°C ~ +125°C
Maximum Current	0.5 ampere	10, 20, 30, 40 ampere
Operating Voltage	250 V eff.	
Peak Voltage	750 V eff.	
Contact Resistance	3 Mohm max. (1) 10 Mohm max. (2)	< 1 Mohm max.
Insulation Resistance	10,000,000 Mohm	
Insertion Force (max.)	10 N	10 N
Retention Force (min.)	0.9 N	1.6 N
Characteristic Impedance	50 Ohm	
Working Frequency	ca. 30 GHz max. 0-10 GHz opt.	
Reflection Coefficient	max. 0.05 to 1 GHz max. 0.07 to 4 GHz max. 0.1 to 10 GHz	

(1) Outer Conductor

(2) Inner Conductor

Connectors Type A, B, C

2mm Hard-Metric Custom Design Worksheet

Series 7200



Fax To: AVX Connectors

North America: Fax: 843-444-2814
Tel: 843-946-0634

Europe: Fax: ++49 2741 299 122
Tel: ++49 2741 299-0

Asia-Pacific: Fax: (65) 350-4880
Tel: (65) 258-2833

Name _____ Title _____

Company _____ email _____

Address _____

City _____ State _____ Zip _____

Telephone _____ Fax _____

For special loading configuration for your application, use this form. Select the grid diagram that applies to the type connector style you need. Fill in each block with the pin style (from the table) that you need. Please leave unloaded positions or rows blank.

TYPE A

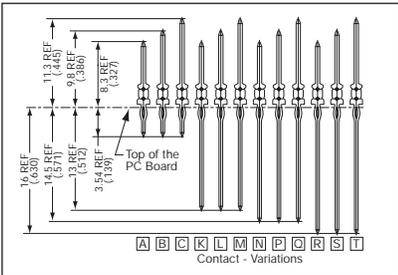
25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
																									z
																									a
																									b
																									c
																									d
																									e
																									f

TYPE B

25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
																									z
																									a
																									b
																									c
																									d
																									e
																									f

TYPE C

11	10	9	8	7	6	5	4	3	2	1	
											z
											a
											b
											c
											d
											e
											f



Mylar strip: Yes
 No

Lubrication: Yes
 No

Perf. Class: I 1.27 Gold/Gold
 I 1.27 Gold/Tin
 II 0.80 Gold/Gold
 II 0.80 Gold/Tin
 Gold all over

Date: _____

P/N assigned: _____

EAU: _____

Connectors Type D, E, F

2mm Hard-Metric Custom Design Worksheet

Series 8075/8077



Fax To: AVX Connectors

North America: Fax: 843-444-2814
Tel: 843-946-0634

Europe: Fax: ++44 (0)1252 770001
Tel: ++44 (0)1252 770000

Asia-Pacific: Fax: (65) 350-4880
Tel: (65) 258-2833

Name _____ Title _____

Company _____ email _____

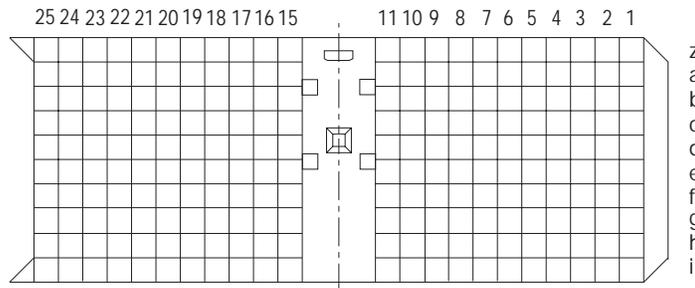
Address _____

City _____ State _____ Zip _____

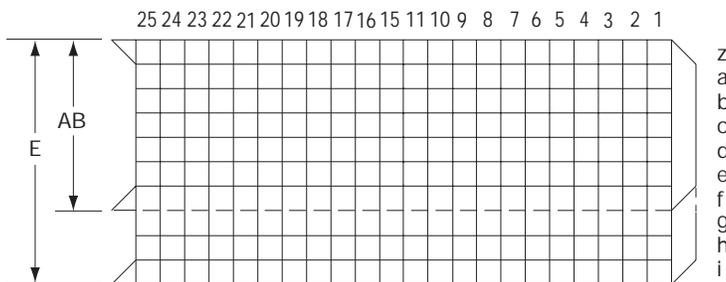
Telephone _____ Fax _____

For special loading configuration for your application, use this form. Select the grid diagram that applies to the type connector style you need. Fill in each block with the pin style (from the table) that you need. Please leave unloaded positions or rows blank.

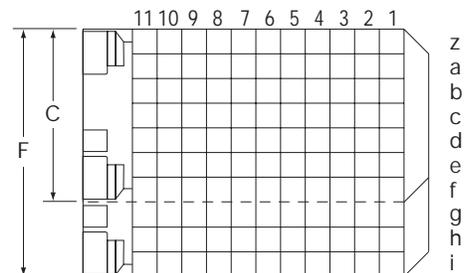
TYPE D



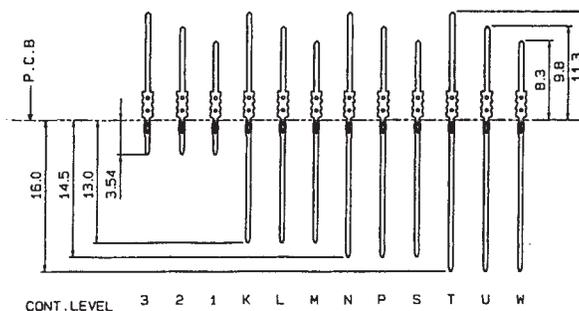
TYPE AB (7 ROW) TYPE E (10 ROW)



TYPE C (7 ROW) TYPE F (10 ROW)



CONTACT STYLES



Part Number Index

Multi-Line Module Connector

2mm Hard-Metric for CompactPCI®



PART NUMBER	PAGE
06 7200 0201 00 000	49
06 7200 0202 00 000	49
06 7200 0203 00 000	49
06 7200 0204 00 000	49
06 7200 0205 00 000	49
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2mm Hard-Metric for CompactPCI®

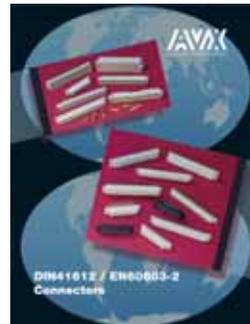
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Connector Guide



DIN41612 / EN60603-2 Connectors



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