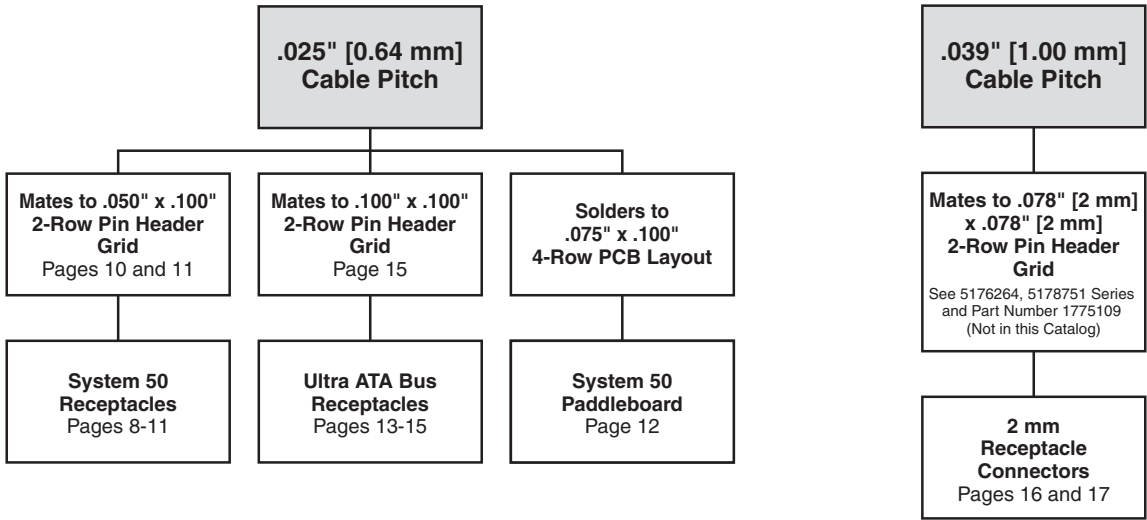


Ribbon Cable Connector Selection Guide

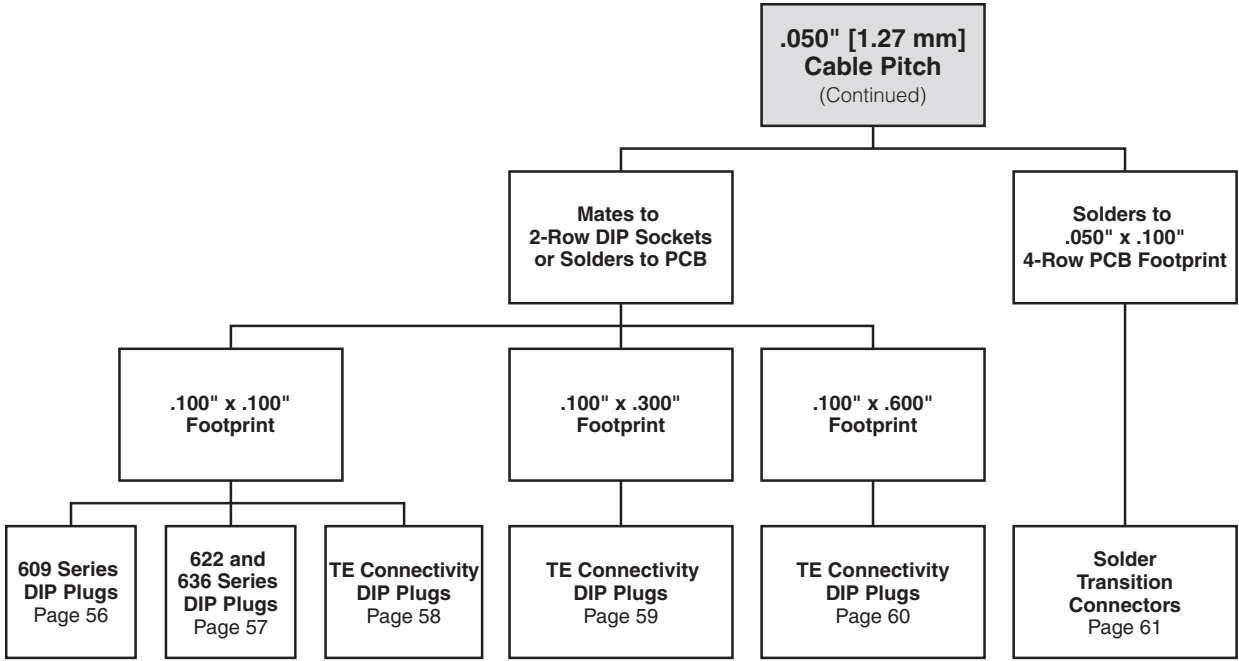
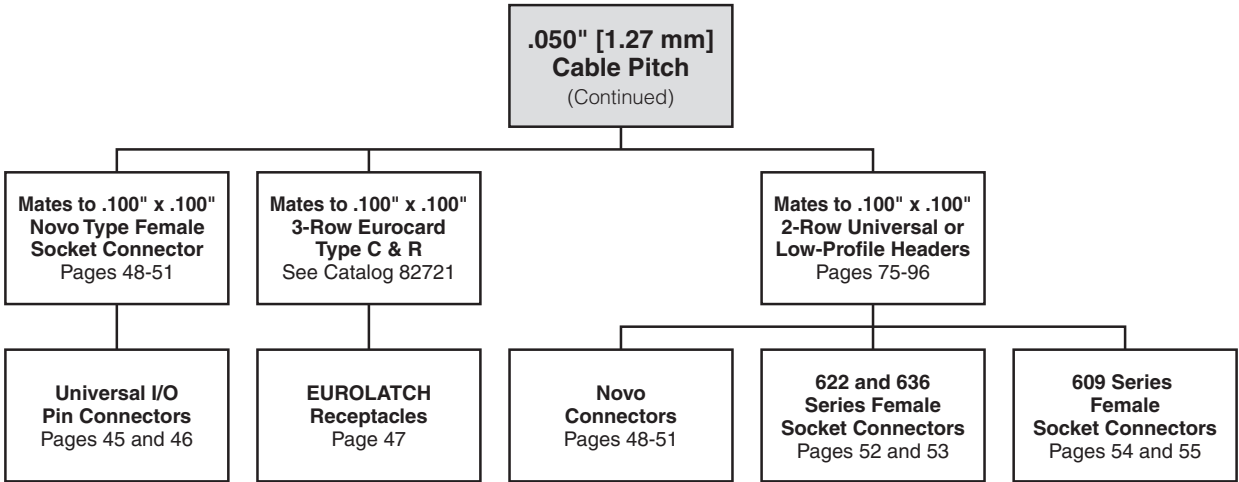
Ribbon Cable Connector Selection Guide



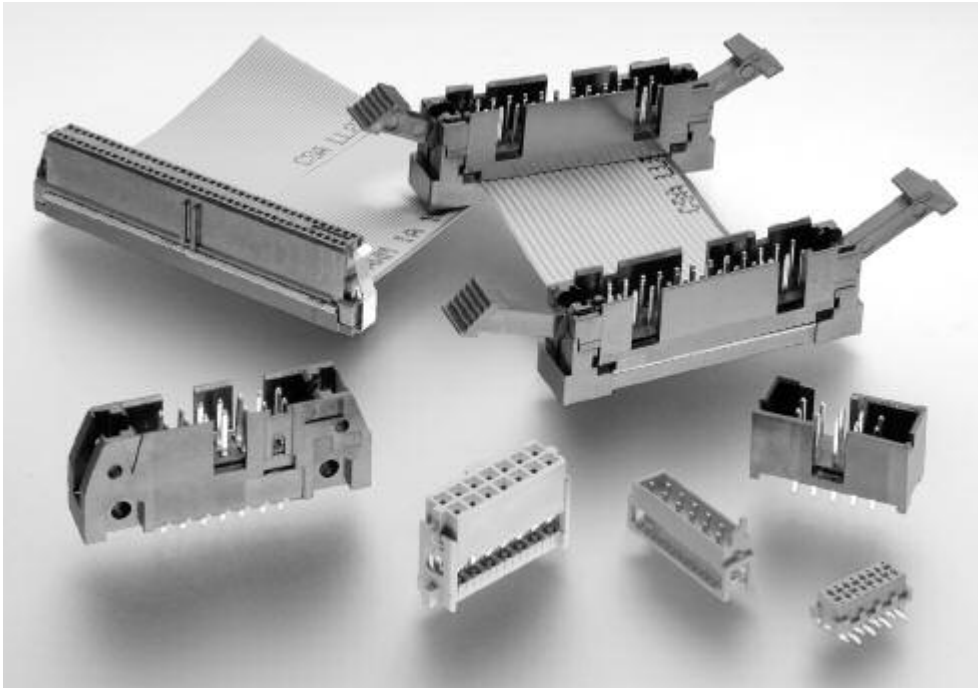
Ribbon Cable Connector Selection Guide (Continued)



Ribbon Cable Connector Selection Guide



## Introduction



### Disclaimer

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### Restriction on the use of Hazardous Substances (RoHS)

At TE Connectivity, 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 regarding the definitions used above
- So whatever your questions when it comes to RoHS, we have the answers at [www.te.com/leadfree](http://www.te.com/leadfree)

**RoHS**  
Customer  
Support  
Center

Introduction (Continued)

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System 50 Cable-to-Board Connectors,  
.025 [0.64] Centerline Ribbon Cable (Continued)



System 50 Board-to-Board Connectors, Through-Hole Headers

Shrouded,  
Double Row  
Vertical



Material and Finish

**Housing** — Black thermoplastic, UL 94V-0 rated  
**Contacts** — Copper alloy, plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

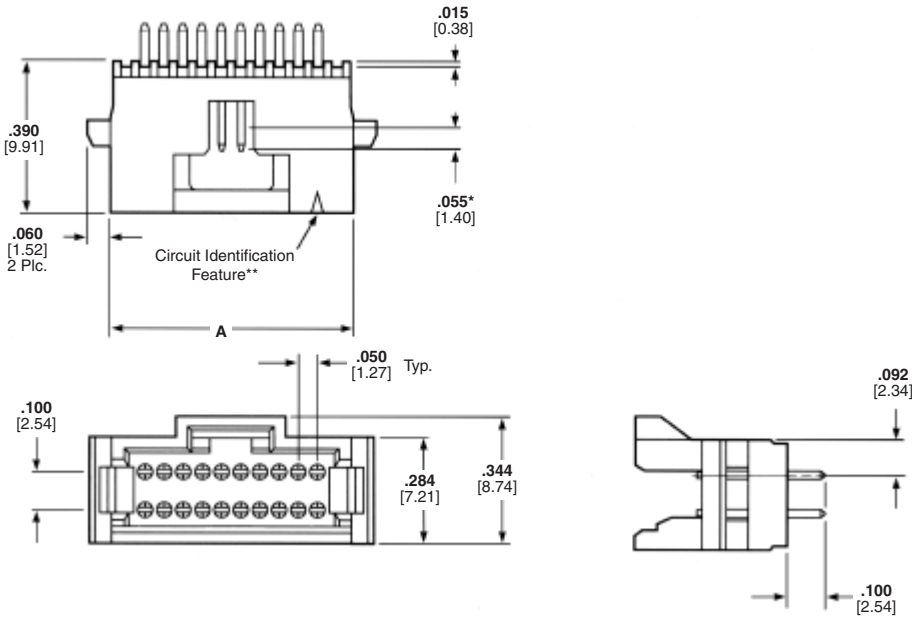
Related Product Data

Mateable Receptacles — page 9

Technical Documents

Product Specification  
108-1093

Application Specification  
114-25031



| No. of Positions | Dim. A        | Part Number |
|------------------|---------------|-------------|
| 10               | .380<br>9.65  | 5-104068-2  |
| 12               | .430<br>10.92 | 5-104068-8  |
| 14               | .480<br>12.19 | 5-104068-9  |
| 16               | .530<br>13.46 | 6-104068-0  |
| 20               | .630<br>16.00 | 5-104068-1  |
| 24               | .730<br>18.54 | 6-104068-1  |
| 26               | .780<br>19.81 | 6-104068-2  |
| 30               | .880<br>22.35 | 5-104068-3  |

\*Point of measurement for gold thickness.  
\*\*Circuit identification feature omitted on 8, 10, 12 and 14 position headers.

**Note:** All part numbers are RoHS compliant.

| No. of Positions | Dim. A         | Part Number |
|------------------|----------------|-------------|
| 34               | .980<br>24.89  | 6-104068-3  |
| 40               | 1.130<br>28.70 | 5-104068-4  |
| 44               | 1.230<br>31.24 | 6-104068-4  |
| 50               | 1.380<br>35.05 | 5-104068-5  |
| 60               | 1.630<br>41.40 | 5-104068-6  |
| 68               | 1.830<br>46.48 | 6-104068-8  |
| 72               | 1.930<br>49.02 | 6-104068-5  |
| 80               | 2.130<br>54.10 | 6-104068-6  |
| 100              | 2.630<br>66.80 | 6-104068-7  |

System 50 Board-to-Board Connectors, Through-Hole Headers (Continued)

Shrouded,  
Double Row  
Right-Angle



Material and Finish

**Housing** — Black thermoplastic,  
UL 94V-0 rated

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

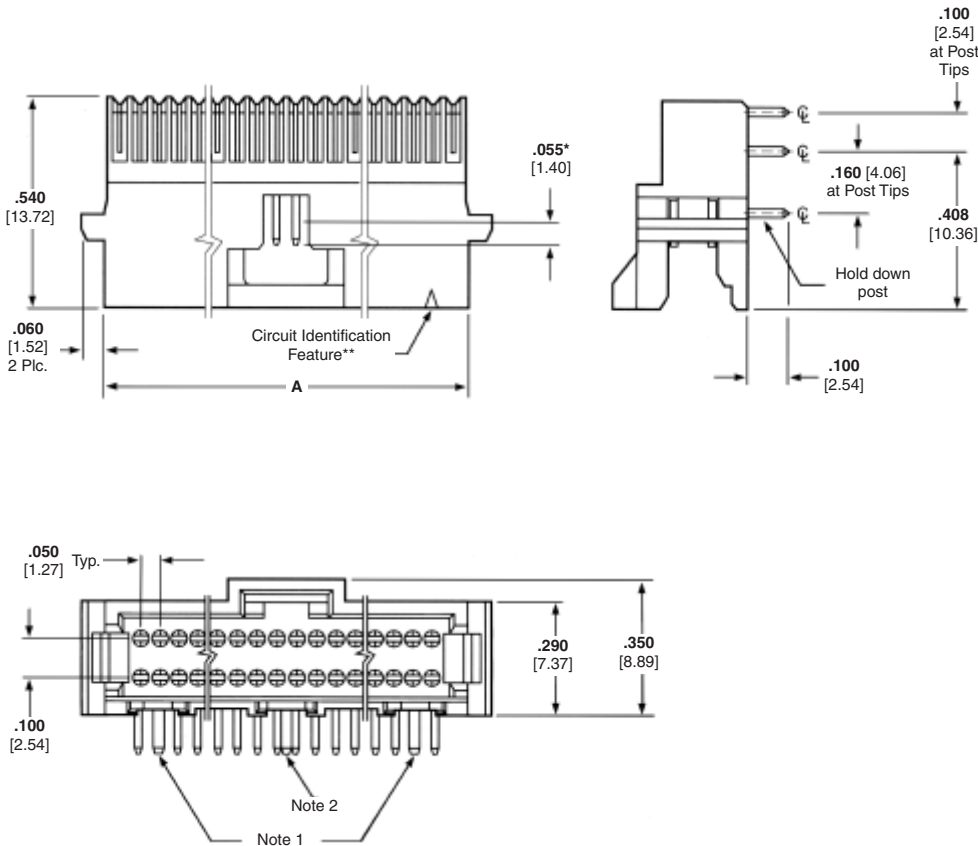
Related Product Data

**Mateable Receptacles** — page 9

Technical Documents

**Product Specification**  
108-1093

**Application Specification**  
114-25031



.025 [0.64] Centerline Ribbon Cable Connectors  
System 50 Board-to-Board Connectors

| No. of Positions | Dim. A        | Part Number |
|------------------|---------------|-------------|
| 8                | .330<br>8.38  | 5-104069-8  |
| 10               | .380<br>9.65  | 5-104069-4  |
| 20               | .630<br>16.00 | 5-104069-1  |
| 24               | .730<br>18.54 | 6-104069-2  |
| 26               | .780<br>19.81 | 6-104069-3  |
| 30               | .880<br>22.35 | 5-104069-5  |
| 34               | .980<br>24.89 | 6-104069-4  |

| No. of Positions | Dim. A         | Part Number |
|------------------|----------------|-------------|
| 40               | 1.130<br>28.70 | 5-104069-6  |
| 50               | 1.380<br>35.05 | 5-104069-2  |
| 60               | 1.630<br>41.40 | 5-104069-7  |
| 68               | 1.830<br>46.80 | 6-104069-8  |
| 72               | 1.930<br>49.02 | 6-104069-6  |
| 80               | 2.130<br>54.10 | 5-104069-3  |
| 100              | 2.630<br>66.80 | 6-104069-7  |

\*Point of measurement for gold thickness.  
\*\*Circuit identification feature omitted on 8, 10, 12 and 14 position headers.  
**Notes:** 1. Hold down posts located as shown for 16 through 100 position headers.  
2. Hold down posts located as shown for 8 through 14 and 60 through 100 position headers.  
3. All part numbers are RoHS compliant.



Ultra ATA Bus Connectors, .025 [0.64] Centerline Ribbon Cable

Ultra ATA Bus Connectors, .025 [0.64] Centerline Ribbon Cable (Continued)

Ultra ATA  
Compatible Headers

Ultra ATA Bus Connectors, .025 [0.64] Centerline Ribbon Cable (Continued)

Universal Headers — Pin 20 Omitted

| Post Type | Housing Material | Latch Type | Part Number | Contact Finish (Plating Code) | Solder Tail Length | Comments |
|-----------|------------------|------------|-------------|-------------------------------|--------------------|----------|
| Vertical  | Nylon or PBT     | Long       | 5111824-9   | D                             | .110<br>2.79       |          |
| Vertical  | Nylon or PBT     | Short      | 6489700-1   | B                             | .123<br>3.12       | PP       |

Legend: PP — Polarization Peg

Low Profile Headers — Pin 20 Omitted

| Post Type | Housing Material | Latch Type | Part Number | Contact Finish (Plating Code) | Solder Tail Length | Housing Color |
|-----------|------------------|------------|-------------|-------------------------------|--------------------|---------------|
| Vertical  | Nylon            | None       | 1888188-1   | A                             | .120<br>3.05       | Black         |
| Vertical  | Nylon            | None       | 1888188-2   | B                             | .120<br>3.05       | Black         |
| Vertical  | Nylon 6T         | None       | 2-1734161-4 | C                             | .122<br>3.10       | Black         |
| Vertical  | Nylon 6T         | None       | 2-1734161-5 | C                             | .122<br>3.10       | Blue          |
| Vertical  | Nylon            | None       | 1734162-2   | C                             | .110<br>2.79       | Black         |
| Vertical  | Nylon            | None       | 1734162-4   | C                             | .110<br>2.79       | Blue          |

**Plating Code A** — Duplex plated, gold flash on mating surfaces, .000100 [0.00254] min. tin on solder area, with entire post underplated .000050 [0.00127] min. nickel.

**Plating Code B** — Duplex plated, gold flash over palladium-nickel, .000015 [0.00038] min. total on mating surfaces, .000100 [0.00254] min. tin on solder area, with entire post underplated .000050 [0.00127] min. nickel **or** .000015 [0.00038] min. gold on mating surfaces, .000100 [0.00254] min. tin on solder area, with entire post underplated .000050 [0.00127] min. nickel.

**Plating Code C** — Gold flash over nickel underplate on entire post.

**Plating Code D** — Duplex plated, gold flash over palladium-nickel, .000030 [0.00076] min. total on mating surfaces, .000100 [0.00254] min. tin on solder area, with entire post underplated .000050 [0.00127] min. nickel **or** .000015 [0.00038] min. gold on mating surfaces, .000100 [0.00254] min. tin on solder area, with entire post underplated .000050 [0.00127] min. nickel.

.025 [0.64] Centerline Ribbon Cable Connectors  
Ultra ATA Bus Connectors

Note: All part numbers are RoHS compliant.



## 2.0 mm [.

**AMPMODU 50/50 Grid Connector System**



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

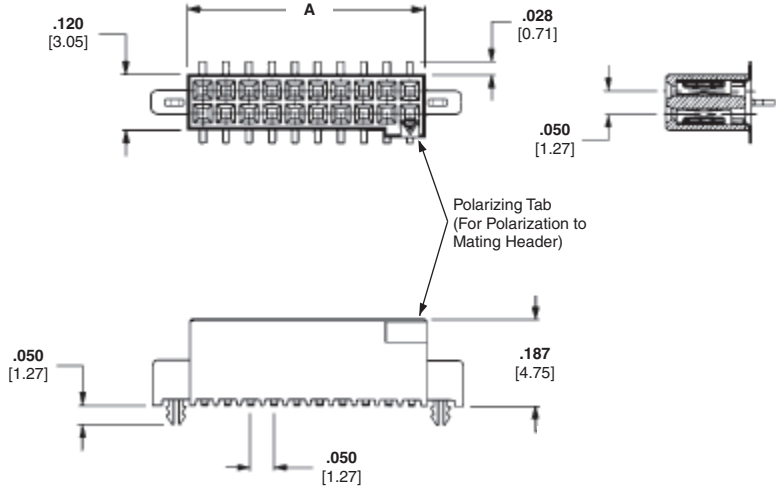


Material and Finish

**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 21 and 24

**PC Board Layouts** — page 22

**Performance Specifications** — page 29

**Technical Documents** — page 29

**Product Specification** 108-1332

**Application Specification** 114-7010

**Packaging** — Tube or Tape and Reel

| No. of Pos. | Dimension A   | Receptacle Part Numbers |                |                             |
|-------------|---------------|-------------------------|----------------|-----------------------------|
|             |               | 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     | —                           |

\* Parts packaged in tape and reel have vacuum pick and place cover. See PC Board Layout on page 22.

Note: All part numbers are RoHS compliant.

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



Board-to-Board Right-Angle Headers







Terminating Covers for Cable Connectors



Material

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

Related Product Data

Connectors used with Covers —  
page 26

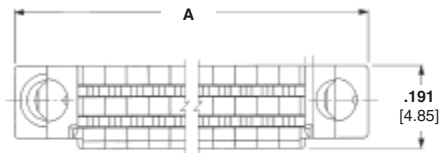
Termination Tooling — page 28

Technical Documents — page 29

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.

Cable Connector Terminating Cover,  
Double Row

**Application Tooling for Cable Connectors**

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.



Micro-MaTch Miniature Connector System Overview Technical Data

Technical Data

|                            |                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------|
| Centerline:                | 1.27 mm (staggered)                                                                                         |
| Number of Positions:       | 4, 6, 8, 10, 12, 14, 16, 18, 20, and some 24 positions                                                      |
| Contact Material:          | Phosphor bronze                                                                                             |
| Contact Finish:            | Tin over Nickel                                                                                             |
| Housing Material:          | Thermoplastic polyester, red, glass-filled<br>For surface mount versions polyamide 4.6                      |
| Flammability rating:       | per UL 94 V-0                                                                                               |
| UL-recognized:             | File E28476 Vol. 23 Section 4                                                                               |
| Contact Resistance:        | 10 MΩ max.                                                                                                  |
| Insulation Resistance:     | 1.000 MΩ min.                                                                                               |
| Nominal Voltage:           | 230 V                                                                                                       |
| Current Rating:            | 1.5 A max.                                                                                                  |
| Temperature Range:         | -40° C to +105° C (operating)                                                                               |
| Mating Force:              | 5N max. per contact                                                                                         |
| Unmating Force:            | 1N min. per contact                                                                                         |
| Minimum Contact Force:     | 2N min.                                                                                                     |
| Product Specification:     | 108-19052                                                                                                   |
| Application Specification: | 114-19016, 114-19051                                                                                        |
| RoHS Compliance Code:      | Always RoHS compliant (directive 2002/95/EC) for all types                                                  |
| Lead-free Process Capable: | Wave solder capable to 265° C for through hole versions<br>reflow solder capable to 260° C for SMD versions |

PC Board Connectors

|                         |                              |
|-------------------------|------------------------------|
| PC Board Thickness:     | 1.6 mm nominal               |
| PC Board Hole Diameter: | 0.8 mm for solder connectors |

Ribbon Connectors

|                      |                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------|
| Cable Type:          | Ribbon cable, UL Style 2651                                                                                       |
| Conductor Spacing:   | 1.27 mm (.050")                                                                                                   |
| Conductor Diameter:  | Solid 0.30 mm diameter Stranded 0.08 mm²<br>7 x 0.12 - 0.13 mm (other diameters and/or configurations on request) |
| Insulation Type:     | semi-rigid PVC                                                                                                    |
| Insulation Diameter: | 0.9 ± 0.1 mm                                                                                                      |

Discrete Wire (COSI) Connectors

|              |                     |
|--------------|---------------------|
| Cable Type : | AWG 28-24 and 24-20 |
|--------------|---------------------|

Micro-MaTch Miniature Connector System  
Overview Technical Data



Micro-MaTch Miniature Connector System Applications (2 Dimensions)

























Universal I/O Pin Connectors with Slotted Mounting Ears</













Female Socket Connectors, .100 x .100 [2.54 x 2.54] Centers, 622 and



Female Socket Connectors, .100 x .100 [2.54 x 2.54] Centers,<









DIP Plugs, .100 x .600 [2.54 x 15

4-Row PCB Solder Transition Connectors



Accessories



Accessories (Continued)





































































