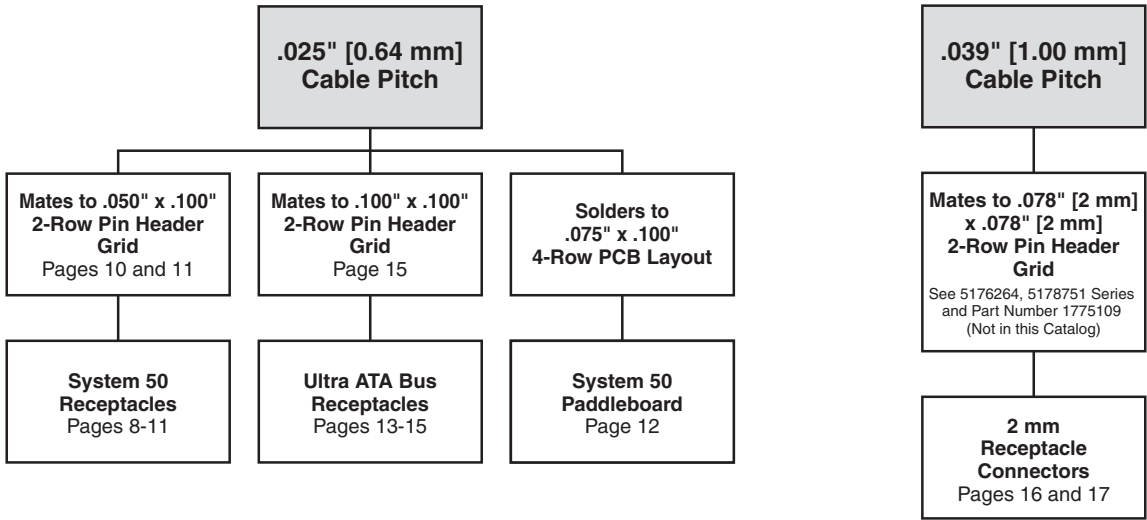


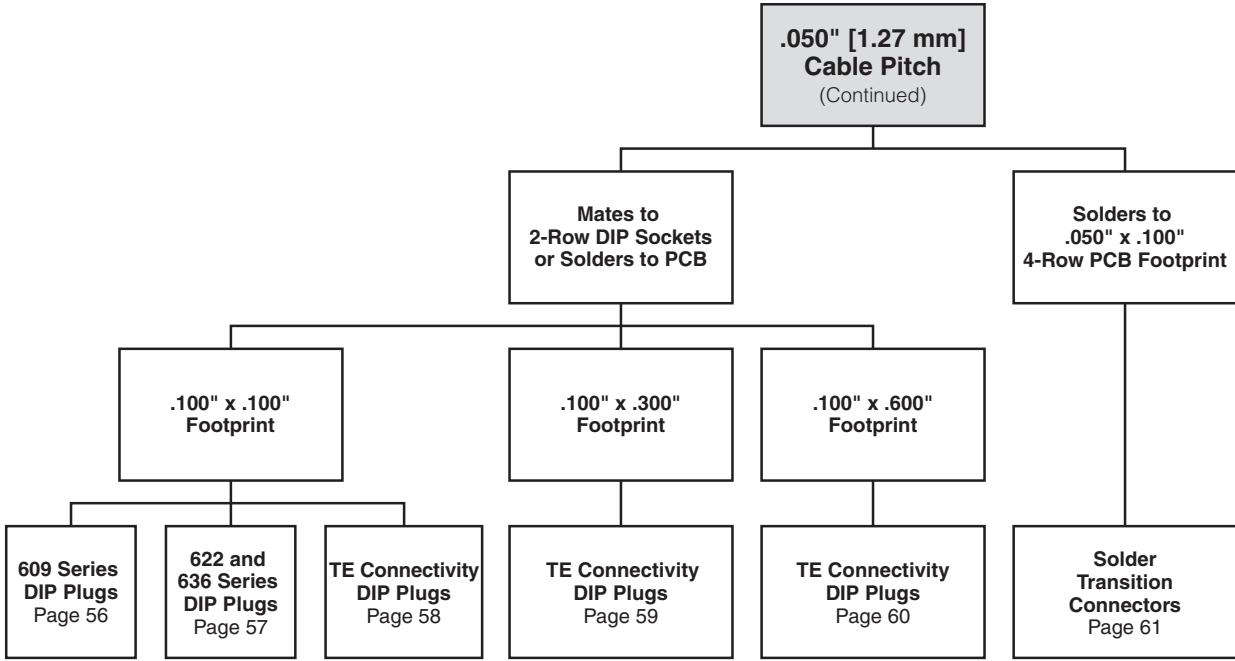
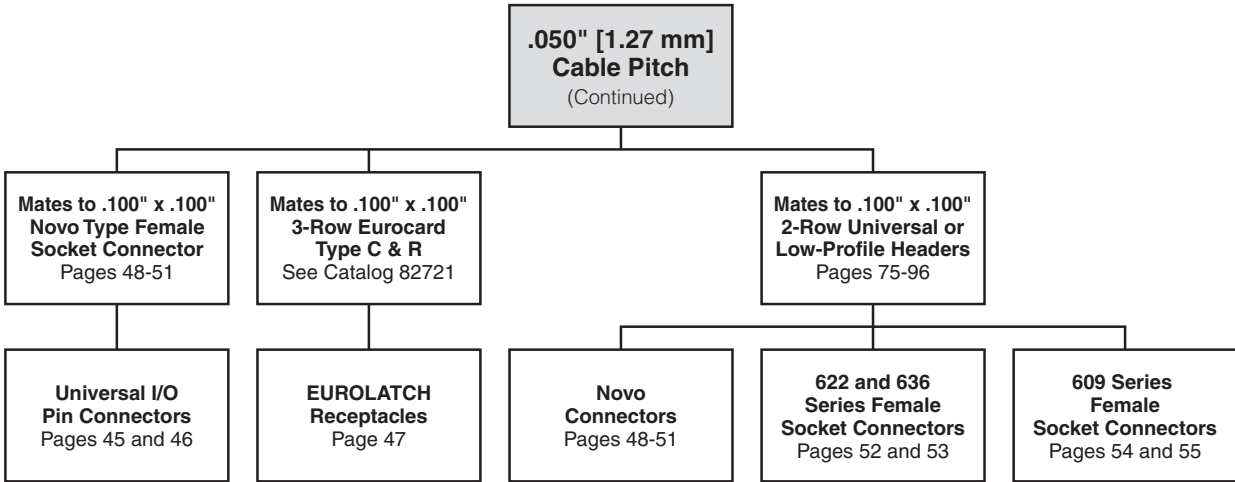
Ribbon Cable Connector Selection Guide

Ribbon Cable Connector Selection Guide

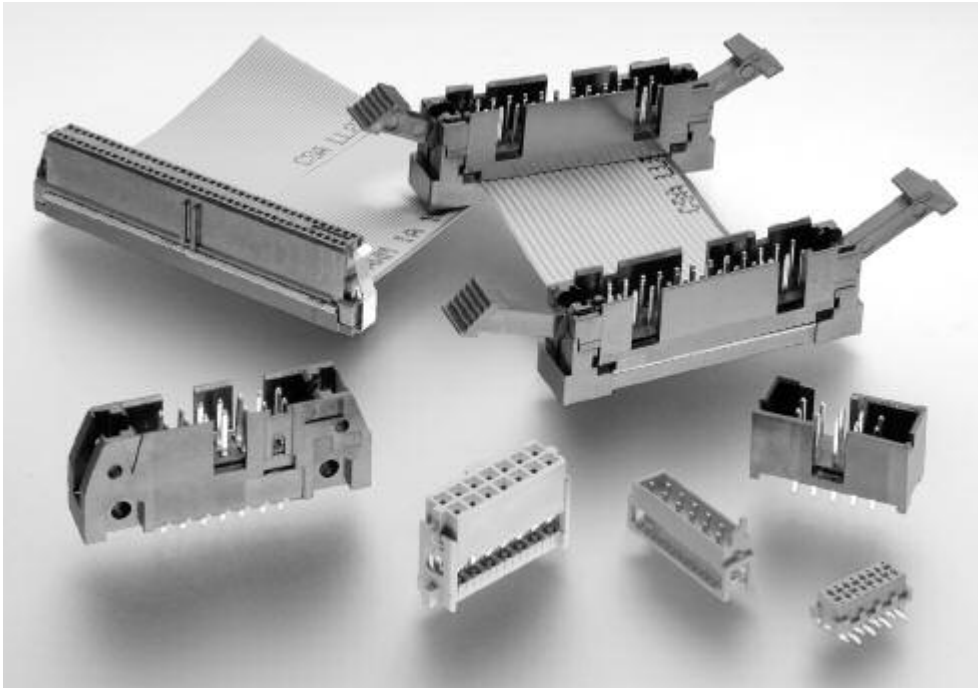


Ribbon Cable Connector Selection Guide (Continued)

Ribbon Cable Connector Selection Guide



Introduction



Disclaimer

While TE has made every reasonable effort to ensure the accuracy of the information in this catalog, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications. © 2012, 2009, 1999, 1998, 1996, 1995, 1993, 1992, 1989, 1988, 1986, 1985, 1983, 1982, 1977, 1976, 1974 and 1973 Tyco Electronics Corporation. All Rights Reserved. AMP, AMPLIMITE, AMPMODU, CHAMP, EUROLATCH, TE Connectivity and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, product and Company names mentioned herein may be trademarks of their respective owners.

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

RoHS
Customer
Support
Center

Introduction (Continued)

Mass termination capabilities of the ribbon cable connectors have helped make ribbon cable, and particularly .050 [0.127] centerline cable, popular within the Electronics Industry. The ability to terminate up to 64 conductors simultaneously, without stripping or otherwise preparing the cable, presents obvious labor savings.

Ribbon Cable Connectors are wire-to-board devices used to make the transition between cable and pc board circuitry. They find heavy use within equipment to connect one board to another or one subsystem to another. The connectors are also used in input/output applications, connecting different pieces of equipment.

Ribbon Cable Solutions are available on three separate cable centerline spacings. They include:

- .025 [0.64] Centerlines**
- System 50 receptacles
 - System 50 paddleboards
 - Pin headers

- .039 [1.00] Centerlines**
- 2.0 mm receptacles
 - Breakaway pin headers

- .050 [1.27] Centerlines**
- 50/50 Grid connectors
 - Micro-MaTch connectors
 - Novo Receptacle connectors
 - DIP plugs
 - EUROLATCH receptacle connectors per DIN 41612 and IEC 603-2
 - Pin Headers

System 50 ribbon cable receptacles will terminate cable on .025 [0.64] centerlines. They are available in select sizes from 20 thru 100-positions, and accept wire size range 30 AWG [0.05 mm²] solid or stranded wire and 32 AWG [0.03 mm²] stranded pvc insulated wire. Housing and cover are made of high temperature tolerant thermoplastic material, black, UL 94V-0 rated. A single mating beam, phosphor bronze contact provides the interconnect between the con-

ductor and the .015² [0.38²] posts on .050 x .100 [1.27 x 2.54] grid. Also available in paddleboard configurations.

2.0 mm [.079] ribbon cable receptacles feature contacts on a true 2.0 mm [.079 in.] mating grid for 1.0 mm [.039 in.] pitch ribbon cable. Select configurations are available between 8 and 50-positions. Receptacles feature insulation displacement contacts (IDC).

50/50 Grid connectors Although 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 and the vertical headers also mate with non-latching cable connectors.

Micro-Match connectors Miniaturization and the trend towards higher density of electronic functions on a substrate led to the introduction of Micro-MaTch. The system offers a range of board and wire connectors, enabling a variety of wire-to-

board and board-to-board interconnections. Its design prevents the traditional failure mode in tin-plated connections, fretting corrosion. An additional positioning spring in the female part absorbs relative movements caused by vibrations and thermal expansion between male and female contacts. By preventing movements on the contact spot, a gas tight connection can be guaranteed under all circumstances.

Novo receptacles feature two rows of contacts on .100 x .100 [2.54 x 2.54] centers on selected sizes of 10 thru 64-positions and mate with .025 [0.64] square or round posts. The Novo tuning-fork contact offers a military-approved design, at an affordable cost. Polarization options include military, center and military, or dual bar.

DIP (Dual In-Line Package) plugs provide a permanent connection of ribbon cable to a pc board or mating to DIP sockets. Using the same centerline dimensions as DIP integrated circuits, DIP plugs offer space efficiency and a low profile of .253 [6.43].

Need more information?

Call Technical Support at the numbers listed below.

Technical Support is staffed with specialists well versed in all TE products. They can provide you with:

- Technical Support
- Catalogs
- Technical Documents
- Product Samples
- TE Authorized Distributor Locations

Table of Contents

Ribbon Cable Connector Selection Guide 2, 3

.025 [0.64] Centerline Ribbon Cable Connectors

 System 50 Connectors 8-12

 Cable-to-Board Connectors 8, 9, 12

 Board-to-Board Connectors 10, 11

 Ultra ATA Bus Connectors 13-15

.039 [1.00] Centerline Ribbon Cable Connectors

 2 mm [.079] Receptacle Connectors 16, 17

AMPMODU 50/50 Grid Connector System

 Introduction 18

 Board-to-Board Vertical Receptacles and Headers 19

 Board-to-Board Vertical Receptacles, Double Row, .050 x .050

 [1.27 x 1.27] Centers 20

 Board-to-Board Vertical Headers, Double Row, .050 x .050 [1.27 x 1.27] Centers . . . 21

 Recommended PC Board Layouts for Vertical Connectors 22

 Board-to-Board Right-Angle Headers 23

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

 Centers 24

 Cable-to-Board Connectors 25

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

 Centers 26

 Terminating Covers for Cable Connectors 27

 Application Tooling for Cable Connectors 28

 Performance Specifications 29

 Technical Documents 29

Micro-MaTch Connector System

 Miniature Connector System 30

 System Overview/Technical Data 31

 Applications (3 Dimensions) 32

 Applications (2 Dimensions) 33

 Female-on-Board Connector, Top Entry 34

 Female-on-Board Connector, Side Entry 35

 Female-on-Board Connector Surface Mount Device (SMD) 36

 Male-on-Board Connector 37

 Male-on-Wire Connector 38

 Paddle Board Connector 39

 Crimp On Snap In (COSI) Connector 40

 Specials 41

 Application Tooling 42, 43

 Lead Assembly and Sample Box 44

.050 [1.27] Centerline Ribbon Cable Connectors

 Universal I/O Pin Connectors without Mounting Ears 45

 Universal I/O Pin Connectors with Slotted Mounting Ears 46

 EUROLATCH Receptacles 64-Position (Three-Row Housings, Two Rows Loaded) 47

 Novo Connectors 48-51

 Military Polarized, .100 x .100 [2.54 x 2.54] Centers 49

 Center and Military Polarized, .100 x .100 [2.54 x 2.54] Centers 50

 Dual Polarized, .100 x .100 [2.54 x 2.54] Centers 51

 Female Socket Connectors, .100 x .100 [2.54 x 2.54] Centers, 622 and 636 Series . . . 52, 53

 Female Socket Connectors, .100 x .100 [2.54 x 2.54] Centers, 609 Series 54, 55

 DIP Plugs, .100 x .100 [2.54 x 2.54] Centers, 609 Series 56

 DIP Plugs, .100 x .100 [2.54 x 2.54] Centers, 622 Series 57

Table of Contents (Continued)

.050 [1.27] Centerline Ribbon Cable Connectors (Continued)	
DIP Plugs, .100 x .100 [2.54 x 2.54] Centers	58
DIP Plugs, .100 x .300 [2.54 x 7.62] Centers	59
DIP Plugs, .100 x .600 [2.54 x 15.24] Centers	60
4-Row PCB Solder Transition Connectors	61
1-Row Horizontal Receptacle	62
Accessories	
Flexible Pull Tabs	63
Universal I/O Latches	63
Military Polarizers	63
Keying Plugs	64
Strain Relief for 622 Series DIP Plugs	65
Pull Loops, Permanent (For Receptacles and Pin Connectors)	66
Strain Relief for Universal I/O without Mounting Ears	67
Strain Relief for 609 Series (Tulip Contact) Female Socket Connectors	67
Strain Relief for Novo and Ultra ATA	68
Strain Relief for 2 mm	68
Strain Relief for 622 and 636 Series Female Socket Connectors	69
Application Tooling	70-74
Low Profile Headers	75-83
Low Profile Pin Headers, Center and Dual Polarized, .100 x .100 [2.54 x 2.54] Centerlines	76, 77
Low Profile Pin Headers, Center and Dual Polarized, .100 x .100 [2.54 x 2.54] Centerlines and “Kinked” Solder Tails for PCB Retention	78, 79
IDC Low Profile Ejection Style Pin Headers with Die Cast Ejection Latches, Military and Center Polarized, .100 x .100 [2.54 x 2.54] Centerlines	80, 81
IDC Low Profile Ejection Style Pin Headers, Center Polarized, .100 x .100 [2.54 x 2.54] Centerlines	82, 83
Universal Ejection Style Pin Headers and Pinless Headers	
Universal Ejection Style Pin Headers, Military, Center and Dual Polarized, .100 x .100 [2.54 x 2.54] Centerlines	84-86
Universal Ejection Style Pin Headers, ACTION PIN Contacts, Military, Center and Dual Polarized, .100 x .100 [2.54 x 2.54] Centerlines	87, 88
Universal Ejection Style Pin Headers, Military, Center and Dual Polarized, .100 x .100 [2.54 x 2.54] Centerlines, Right-Angle	89-91
Universal Ejection Style Pinless Headers, Military, Center and Dual Polarized, .100 x .100 [2.54 x 2.54] Centerlines	92, 93
Universal Ejection Style Pin Headers, with PCT Housing, .100 x .100 [2.54 x 2.54] Centerlines, .025 [0.64] Sq. Posts (Mating End)	94, 95
Latches for Ejection Style Universal Pin Headers and Pinless Headers	96
Cable Solutions	97, 98
Part Number Index	99

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

Double Row Receptacle



Material and Finish

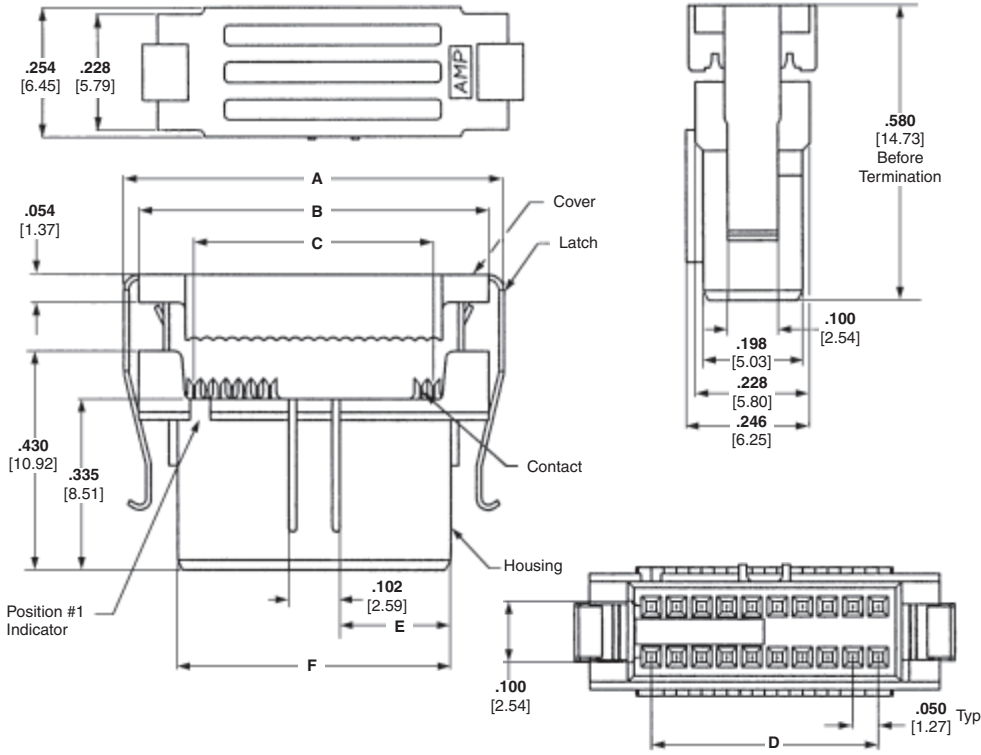
Housing — Black thermoplastic,
UL 94V-0 rated
Latches — Stainless steel
Contacts — Phosphor bronze, plated
30 microinch gold over nickel with tin
in termination area

Related Product Data

Mateable Connectors —
See AMP Catalog 82178
See Part Numbers 104068 and 104069
Series on pages 10 and 11
Mates with Posts — .015 [0.38]
square, .125 [3.18] long, on
.050 x .100 [1.27 x 2.54] grid

Technical Documents

Product Specification
108-1109
Application Specification
114-25029



No. of Pos.	Dimensions						Part Number
	A	B	C	D	E	F	
10	.510 12.95	.445 11.30	.225 5.72	.200 5.08	.096 2.44	.294 7.47	2-111196-5
14	.610 15.49	.545 13.84	.325 8.26	.300 7.62	.146 3.71	.394 10.01	2-111196-6
16	.660 16.76	.595 15.11	.375 9.52	.350 8.89	.171 4.34	.444 11.28	2-111196-7
20	.760 19.30	.695 17.65	.475 12.07	.450 11.43	.221 5.61	.544 13.82	1-111196-8
24	.860 20.32	.795 20.19	.575 14.61	.550 13.97	.271 6.88	.644 16.36	2-111196-8
26	.910 23.11	.845 21.46	.625 15.88	.600 15.24	.296 7.52	.694 17.63	2-111196-9
30	1.010 25.65	.945 24.00	.725 18.42	.700 17.78	.346 8.79	.794 20.17	1-111196-9
34	1.110 28.19	1.045 26.54	.825 20.96	.800 20.32	.396 10.06	.894 22.71	3-111196-0
40	1.260 32.00	1.195 30.35	.975 24.54	.950 24.13	.471 11.96	1.044 26.52	2-111196-0
44	1.360 34.54	1.295 32.89	1.075 27.31	1.050 26.67	.521 13.23	1.144 29.06	3-111196-1
50	1.510 38.35	1.445 36.70	1.225 31.12	1.200 30.48	.596 15.14	1.294 32.87	2-111196-1
60	1.760 44.70	1.695 43.05	1.475 37.47	1.450 36.83	.721 18.31	1.544 39.22	2-111196-2
64	1.860 47.24	1.795 45.59	1.575 40.00	1.550 39.37	.771 19.58	1.644 41.76	3-111196-2
68	1.960 49.78	1.895 48.13	1.675 42.55	1.650 41.91	.821 20.85	1.744 44.30	3-111196-4
72	2.060 52.32	1.995 50.67	1.775 45.08	1.750 44.45	.871 22.12	1.844 46.84	2-111196-3
80	2.260 57.40	2.195 55.75	1.975 50.17	1.950 49.53	.971 24.66	2.044 51.92	3-111196-3
100	2.760 70.10	2.695 68.45	2.475 62.87	2.450 62.23	1.221 31.01	2.544 64.62	2-111196-4

See Application Specification for termination tooling.
Note: All part numbers are RoHS compliant.

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



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

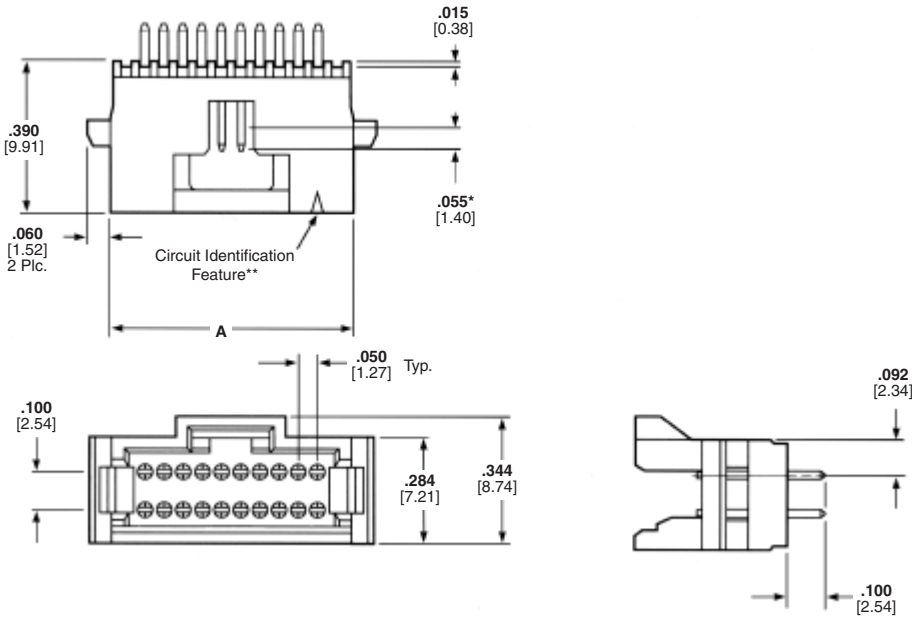
Related Product Data

Mateable Receptacles — page 9

Technical Documents

Product Specification
108-1093

Application Specification
114-25031



No. of Positions	Dim. A	Part Number
10	.380 9.65	5-104068-2
12	.430 10.92	5-104068-8
14	.480 12.19	5-104068-9
16	.530 13.46	6-104068-0
20	.630 16.00	5-104068-1
24	.730 18.54	6-104068-1
26	.780 19.81	6-104068-2
30	.880 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 24.89	6-104068-3
40	1.130 28.70	5-104068-4
44	1.230 31.24	6-104068-4
50	1.380 35.05	5-104068-5
60	1.630 41.40	5-104068-6
68	1.830 46.48	6-104068-8
72	1.930 49.02	6-104068-5
80	2.130 54.10	6-104068-6
100	2.630 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

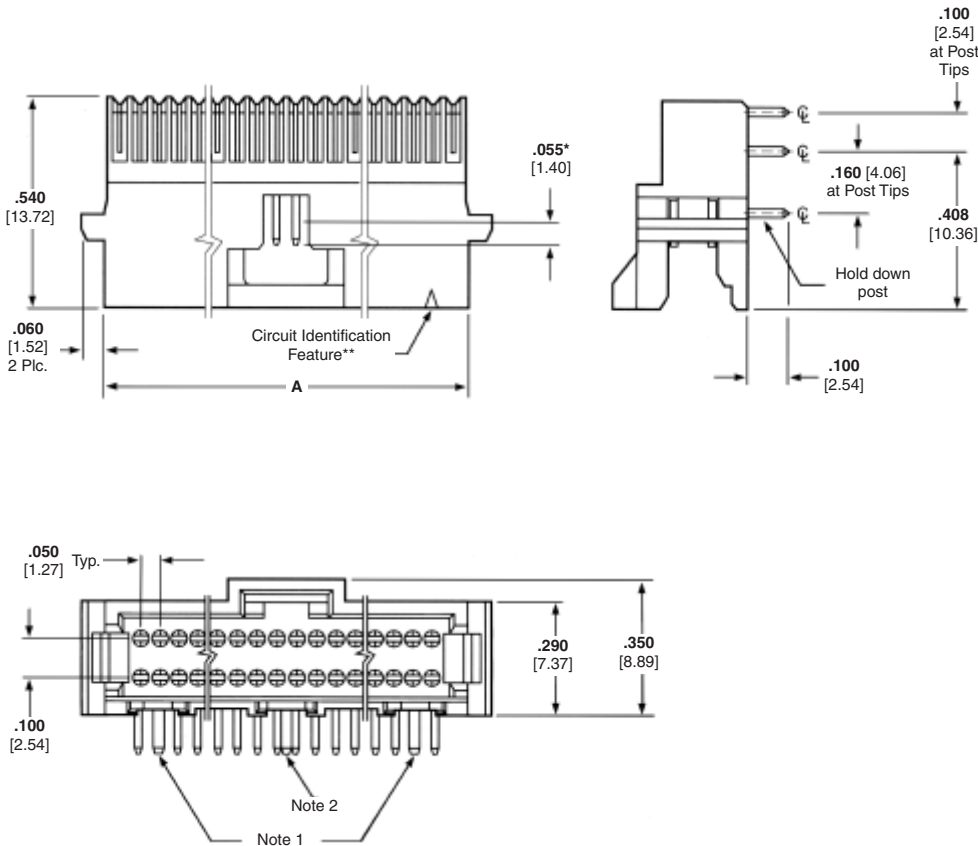
Related Product Data

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 8.38	5-104069-8
10	.380 9.65	5-104069-4
20	.630 16.00	5-104069-1
24	.730 18.54	6-104069-2
26	.780 19.81	6-104069-3
30	.880 22.35	5-104069-5
34	.980 24.89	6-104069-4

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



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

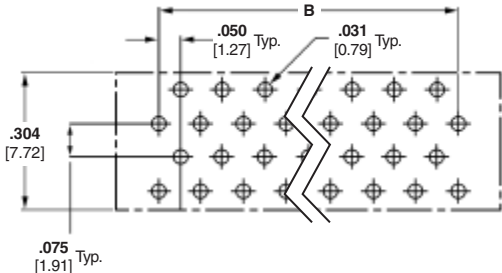
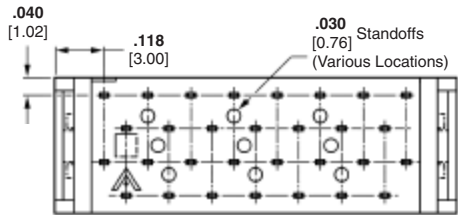
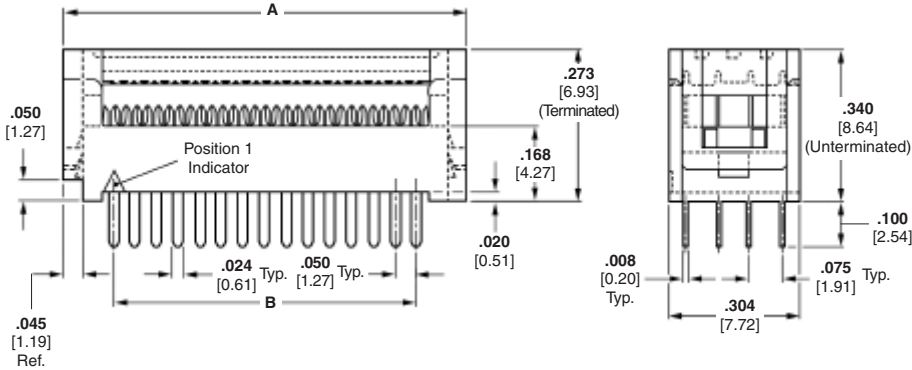
Paddleboard

Material and Finish

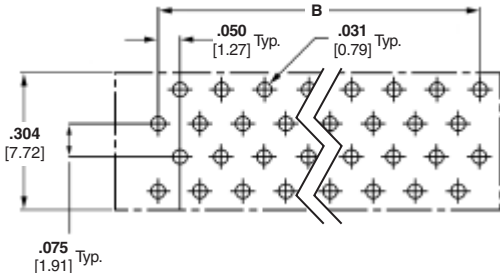
Housing — LCP thermoplastic, UL 94V-0 rated, black
Cover — Polyester, UL 94V-0 rated, black
Contacts — Phosphor bronze, plated .000100 [0.00245] min. tin over .000050 [0.00127] min. nickel underplating

Technical Documents

Product Specification
108-1109
Application Specification
114-25040



Printed Circuit Board Hole Layout #1



Printed Circuit Board Hole Layout #2

No. of Pos.	PCB Layout	Dimensions		Kinked Legs
		A	B	
10	1	.436 11.07	.200 5.08	5111595-1
14	1	.536 13.61	.300 7.62	5111595-2
16	2	.586 14.88	.350 8.89	5111595-3
20	2	.686 17.42	.450 11.43	5111595-4
24	2	.786 19.96	.550 13.97	5111595-5
26	1	.836 21.23	.600 15.24	5111595-6
28	2	.886 22.50	.650 16.51	2-5111595-0
30	1	.936 23.77	.700 17.78	5111595-7
34	1	1.036 26.31	.800 20.32	5111595-8
40	2	1.186 30.12	.950 24.13	5111595-9

No. of Pos.	PCB Layout	Dimensions		Kinked Legs
		A	B	
44	2	1.286 32.66	1.050 26.67	1-5111595-0
46	1	1.336 33.93	1.100 27.94	1-5111595-7
50	1	1.436 36.47	1.200 30.48	1-5111595-1
60	2	1.686 42.82	1.450 36.83	1-5111595-2
64	2	1.786 45.36	1.550 39.37	1-5111595-3
68	2	1.886 47.90	1.650 41.91	1-5111595-9
72	2	1.986 50.44	1.750 44.45	1-5111595-4
80	2	2.186 55.52	1.950 49.53	1-5111595-5
100	2	2.686 68.22	2.450 62.23	1-5111595-6

See Application Specification for termination tooling.
Note: All part numbers are RoHS compliant.

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 2.79	
Vertical	Nylon or PBT	Short	6489700-1	B	.123 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 3.05	Black
Vertical	Nylon	None	1888188-2	B	.120 3.05	Black
Vertical	Nylon 6T	None	2-1734161-4	C	.122 3.10	Black
Vertical	Nylon 6T	None	2-1734161-5	C	.122 3.10	Blue
Vertical	Nylon	None	1734162-2	C	.110 2.79	Black
Vertical	Nylon	None	1734162-4	C	.110 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.

Note: All part numbers are RoHS compliant.



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

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

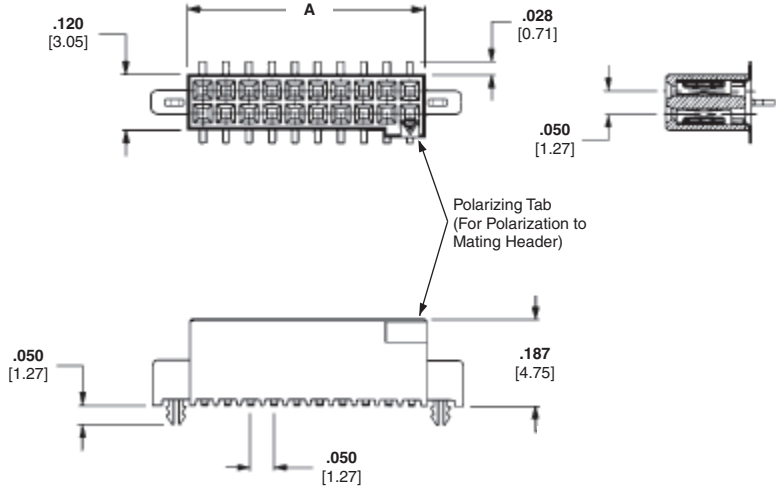


Material and Finish

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

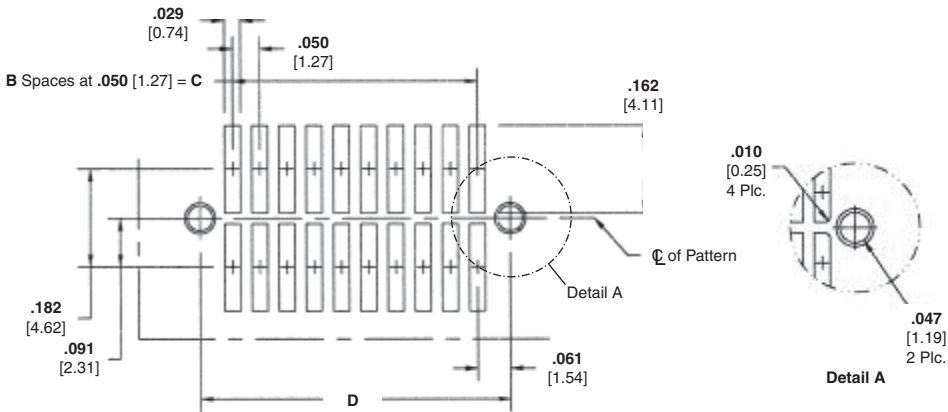
No. of Pos.	Dimension A	Receptacle Part Numbers		
		Tube	Tape and Reel*	No Hold Down w/Vacuum Cover
10	.266 [6.75]	5-104652-1	5-147384-1	5-147413-1
20	.516 [13.11]	5-104652-2	5-147384-2	5-147413-3
30	.766 [19.46]	5-104652-3	5-147384-3	5-147413-4
40	1.016 [25.81]	5-104652-4	5-147384-4	—
50	1.266 [32.16]	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.

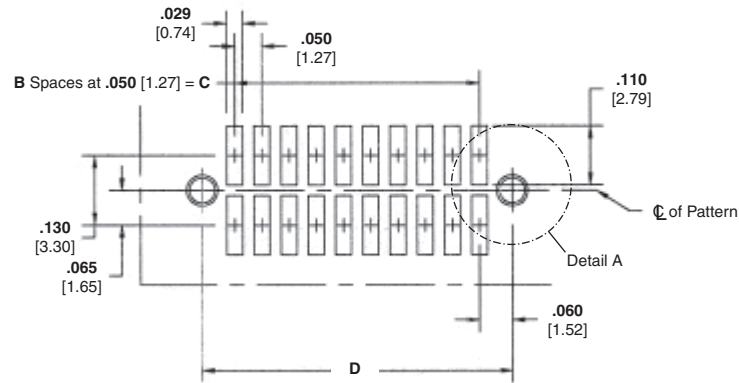
Note: All part numbers are RoHS compliant.

Recommended PC Board Layouts for Vertical Connectors

Headers



Receptacles



No. of Pos.	Receptacle Dimensions			Header Dimensions		
	B	C	D	B	C	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 TE Customer Drawings for additional PC board layout information and dimensional tolerances.

Terminating Covers for Cable Connectors



Material

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

Related Product Data

Connectors used with Covers —
page 26

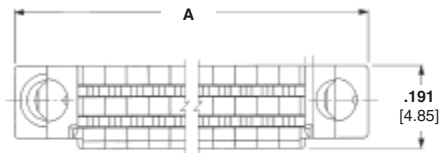
Termination Tooling — page 28

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

