3M™ Four-Wall Header

.100" × .100" Latch/Ejector, Straight and Right Angle — 3000 Series

- Military (with 3M's 3518 & N3518 polarizing key) and centerbump polarization
- Optional ejector latches
- Mounting holes for securing header to board
- Optional polarizing posts available
- High temperature insulator option suitable for "no lead" soldering operations
- High temperature option suitable for reflow soldering using "paste in hole" techniques
- Solder tail and wrap post options
- See Regulatory Information Appendix for chemical compliance information

Date Modified: May 1, 2008

TS-0772-G
Sheet 1 of 4

Physical

Insulator:

Material: Glass Filled Polyester (PBT) Glass Filled Polyester (PCT) - (High Temp Option)

Flammability: UL 94V-0

Color: Gray (PBT), Beige (PCT), Black (PCT)

Contact:

Material: Copper Alloy

Plating:

Underplating: Nickel - Overall (See Ordering Information)

Wiping Area: 30 µ" [0.76 µm] Gold

Solder Tails: Tin Lead or Matte Tin (See Ordering Information)

Marking: 3M Logo, Part Identification Number and Orientation Triangle

勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-54151736
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

Electrical

Current Rating: 2 A (EIA 364-70)

Insulation Resistance: $>1 \times 10^9\ \Omega$ at 500 V_{DC}

Withstanding Voltage: 1000 V_{RMS} at Sea Level

Environmental

Temperature Rating: -55°C to +105°C

Process Rating: 260°C - (High Temp PCT insulator verson), single pass, (profile per J-STD-020C) (PBT insulator version), maximum insulator temperature 191°C (solder wave processonly)

Moisture Sensitivity Level: 1 (per J-STD-020C) High Temp. (PCT) versions only

UL File No.: E68080

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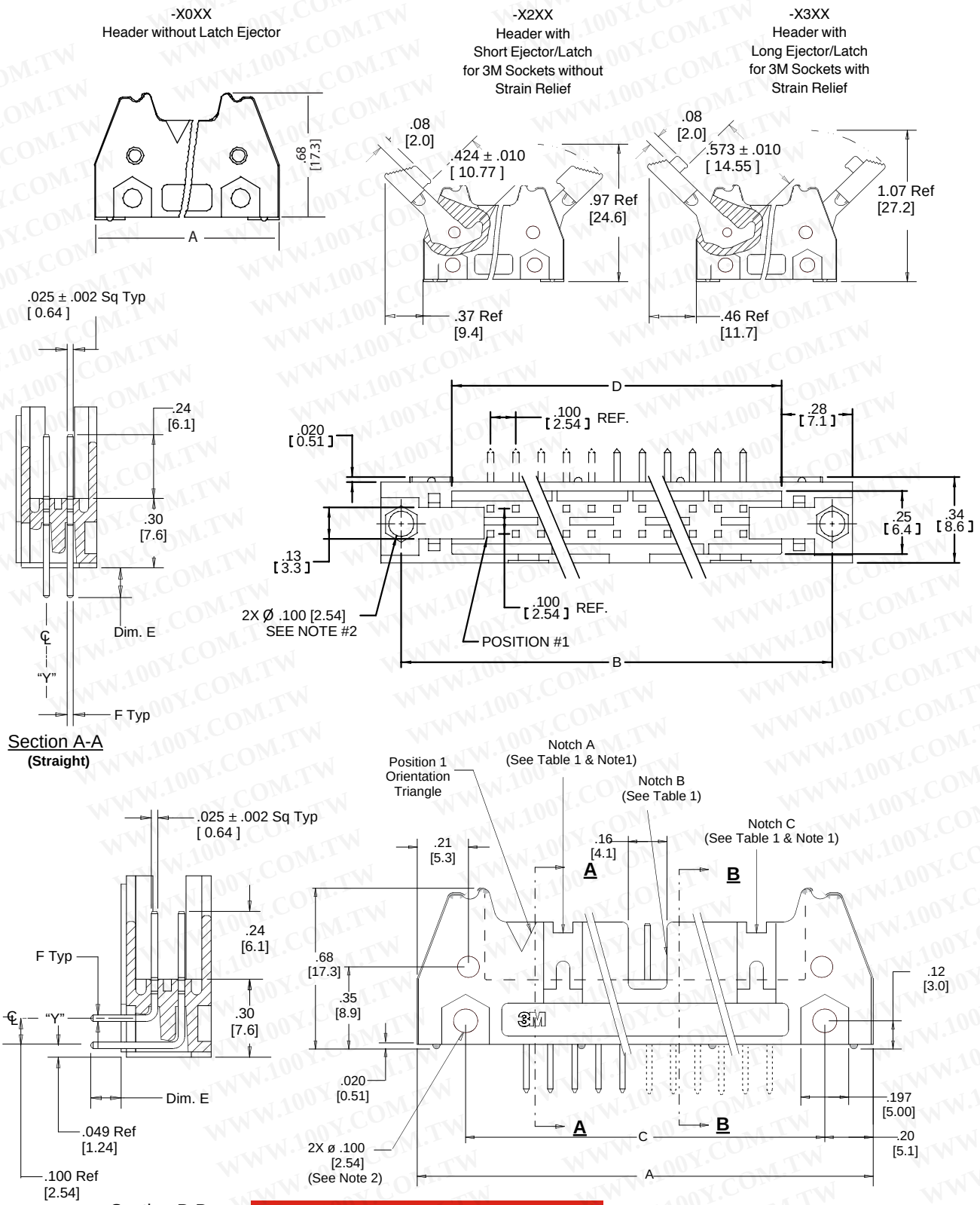
3M™ Four-Wall Header

.100" × .100" Latch/Ejector, Straight and Right Angle

3000 Series



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Sheet 2 of 4

3M™ Four-Wall Header

.100" × .100" Latch/Ejector, Straight and Right Angle

3000 Series

Table 1

Pin Qty	3M Part Number	Dimensions A	Dimensions B	Dimensions C	Dimensions D	Polarizing Notches
10	3793	1.265 (32.13)	1.104 (28.04)	0.865 (21.97)	0.705 (17.91)	BC
14	3314	1.465 (37.21)	1.304 (33.12)	1.065 (27.05)	0.905 (22.99)	BC
16	3408	1.565 (39.75)	1.404 (35.66)	1.165 (29.59)	1.005 (25.53)	ABC
20	3428	1.765 (44.83)	1.604 (40.74)	1.365 (34.67)	1.205 (30.61)	ABC
24	3627	1.965 (49.91)	1.804 (45.82)	1.565 (39.75)	1.405 (35.69)	ABC
26	3429	2.065 (52.45)	1.904 (48.36)	1.665 (42.29)	1.505 (38.23)	ABC
30	3440	2.265 (57.53)	2.104 (53.44)	1.865 (47.37)	1.705 (43.31)	ABC
34	3431	2.465 (62.61)	2.304 (58.52)	2.065 (52.45)	1.905 (48.39)	ABC
40	3432	2.765 (70.23)	2.604 (66.14)	2.365 (60.07)	2.205 (56.01)	ABC
50	3433	3.265 (82.93)	3.104 (78.84)	2.865 (72.77)	2.705 (68.71)	ABC
60	3372	3.765 (95.63)	3.604 (91.54)	3.365 (85.47)	3.205 (81.41)	ABC
64	3764	3.965 (100.71)	3.804 (96.62)	3.565 (90.55)	3.405 (86.49)	ABC

Inch
(mm)

Tolerance Unless Noted			
	.0	.00	.000
Inch	± .1	± .01	± .005

[ ] Dimensions for Reference only

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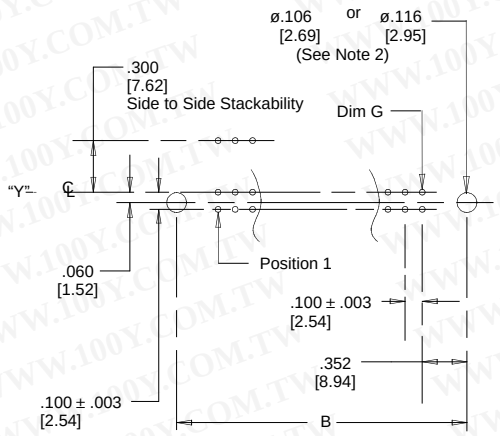
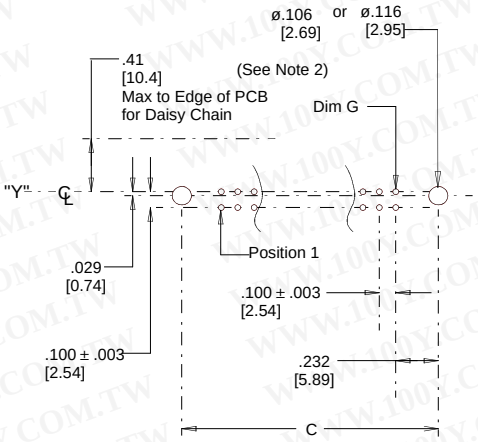
Table 2

3M Part Number Suffix	Contact Tail	Dim E	Pin Cross Section: Dim F	Pin Cross Section: Diagonals	Pin Cross Section: Corner Radii	Dim G
-5XX2	Solder Tail for .062 (1.57) Thick PC Board	.112 ± .010 (2.84)	Dim F .0245 ± .0005 (0.622)	Diagonals .028 ± .001 (0.71)	Corner Radii .0075 Ref (0.191)	0.035 ± .003 (0.89) (See Note 3)
-6XX2						
-5XO3	Solder Tail for 0.94 (2.39) to .125 (3.18) Thick PC Board	.155 ± .010 (3.94)	.0245 ± .0005 (0.622)	.028 ± .001 (0.71)	.0075 Ref (0.191)	0.035 ± .003 (0.89)
-6XO3						



Recommended Mounting Hole Pattern
(Straight)



Recommended Mounting Hole Pattern
(Right Angle)

Notes: 1. Notches A & C will accomodate 3M Polarizing Keys (3M Part #3518 or #N3518).
2. Mounting hardware: From solder side of pc board use #4-24 thread cutting screw (3M Part # 3341-5) and .116 [2.95] dia mounting hole. For right angle version only, #2-56 bolt and nut (3M Part # 3341-6) with .106 [2.69] dia mounting hole may be used.
3. The recommended PCB hole size for the kinked tail positions on the .112 solder tail connector is .035 ± .002. See page 4 for kink position details (K2 version).
4. Contact your 3M sales representative for custom requirements.

Ordering Information

X3XXX-XXXXXX

Blank = Std. Temp Gray (PBT) /(Blank or UB Pltg. Req'd.)
N = High Temp Beige (PCT) /(Blank or UB Pltg. Req'd.)
N = High Temp Black (PCT)/(RB Plating Req'd)

3M Part Number
(See Table 1)

Pin Configuration
5 = Right Angle Solder Tails
6 = Straight Solder Tails

Latch/Ejector System
0 = No Latch/Ejector installed
2 = Short Roll Pin Latch/Ejectors
3 = Long Roll Pin Latch/Ejectors
5 = Short, Snap-In Latch/Ejectors
6 = Long, Snap-In Latch/Ejectors

Tail
02 = for .062 [1.57] thick board
03 = for .094 to .125 [2.39 to 3.18] thick board
K2 = kinked for .062 [1.57] thick board

Plating
RB = 30 µ" [0.76 µm] Gold and 200 µ" [5.08 µm] Matte Tin over 100 µ" [2.54 µm] Nickel (App. E1 & C1 Apply)
Blank or UB = 30 µ" (0.76 µm] Gold and 200 µ" [5.08 µm] Tin Lead over 100 µ" [2.54 µm] Nickel (App. E3 & C2 Apply)

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Sheet 3 of 4

3M™ Four-Wall Header

.100" × .100" Latch/Ejector, Straight and Right Angle — 3000 Series

Part Customization

This spec sheet details our standard offering.

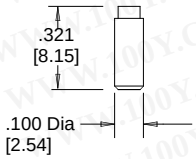
3M has several capabilities that can provide a part tailored to your specific needs. Ask your 3M sales representative or customer service for more details.

Both snap in and roll pin latches may be ordered separately. Snap in and roll style latches are dimensionally and functionally equivalent. If ordering snap-in or roll pin style latches separately, please use the below chart.

	Short Latch	Long Latch	Latch Style	Color
Standard Temperature (PBT)	3505-2	3505-3	Roll Pin	Gray
High Temperature (PCT)	N3505-2	N3505-3	Roll Pin	Beige
High Temperature (PCT)	N3505-2B	N3505-3B	Roll Pin	Black
High Temperature (PPA)	3505-30	3505-31	Snap-In	Gray
High Temperature (PPA)	N3505-30	N3505-31	Snap-In	Beige
High Temperature (PPA)	N3505-30B	N3505-31B	Snap-In	Black

- Selective pin removal (ATA or other compatability)
- Wire wrap tails styles

Polarizing Post



3201-3	PBT	Gray
3201-4	LCP	Black

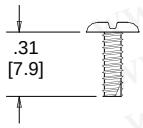
Note: Insert Post into one mounting hardware hole on bottom of header. Set post to protrude .115" [2.92].

2500 & 3000 Series Shrouded Header					
Total Number of Pins	Number of Tails Kinked	Positions Kinked			
10	4	3	4	7	8
14	4	3	4	11	12
16	4	3	4	13	14
20	4	3	4	17	18
24	4	3	4	21	22
26	4	3	4	23	24
30	4	5	6	25	26
34	4	7	8	27	28
36	4	7	8	27	28
40	4	7	8	33	34
50	4	7	8	43	44
60	4	11	12	49	50
64	4	11	12	53	54

Kinked Tail Detail:
Kink is located .05" below bottom surface of plastic.
External radius of kink toward part centerline.

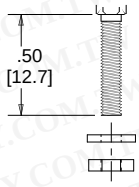
Mounting Hardware

3341-5
(Installed from bottom of board)



Panhead Thread Cutting Screw:
#4-24 X 5/16"
Type: USA Std BT, Federal BG

3341-6
(Must be inserted prior to latch on vertical headers)

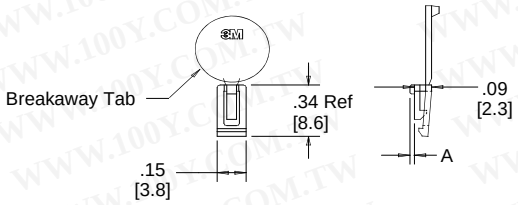


Hex Head Bolt, Nut and Washer
Bolt - #2-56 X 1/2"

3341-5 & 6
Material - Stainless Steel

Polarizing Keys

			Dim A
N3518	LCP	Black	.02
3518	PBT	Gray	.02



Note: #2216 B/A Scotchweld can be used to adhere keys.

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Sheet 4 of 4

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Regulatory Information Appendix

3M Electronic Solutions Division/Interconnect

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EUROPE

Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product is RoHS Compliant 2005/95/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

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Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

This product contains lead in the solder tail area in excess of the maximum concentration value allowed.

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In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix E4: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains decaBDE in the insulating material in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/717/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.product Warranty stated below.

Appendix E5: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in excess of the maximum concentration value allowed but is compliant by exemption under Item 6 of the Annex to the Directive.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

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CHINA

Appendix C1: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.
This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does not** contain any of the following substances in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

Appendix C2: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.
This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

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产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
端子镀层(contact plating)	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)

Appendix C3: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

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产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
合金(Metal alloy)	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)

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Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of 90 days from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

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MATING GUIDE

Interconnect Solutions Mating Guide

How to Search this Guide

This document was designed to be used in conjunction with the search function that is built into the Adobe Acrobat program. It will quickly provide you with all the mating connector possibilities of interest.

Acrobat "Search" function instructions:

1. Press **CONTROL F (Ctrl F)**
2. When the dialog box appears, type in the words, product number, or tech sheet number (**TS-XXXX**) of the product you are looking for, and press **ENTER**.
3. Depending on your version of Acrobat, it will either take you directly to the first instance found, or it will display a list of pages where the text or numbers can be found.
4. In some cases, there may be more than one choice or family of connectors. Please make sure to either go through the list of options Acrobat makes available, or click the **NEXT** button (depending on your Acrobat version).

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QUICK ACCESS Links

Click on **Product Category** to quickly access product information.

3M™ Connectors, .100"

3M Board-to-Wire Copper Connectors
3M Board-to-Board Copper Connectors
3M Wire-to-Board Copper Connectors
3M Wire-to-Wire Copper Connectors
3M Low Profile Board-to-Board Copper Connectors
3M Board Stacking Connectors
3M Input/Output Wire-to-Wire Copper Connectors

3M™ Mini D Ribbon (MDR) and J Shells

3M Board-to-Wire Copper Connectors
3M MDR Wire-to-Wire Copper Connectors
3M MDR Board-to-Board Copper Connectors
3M Round Cable Junction Shells
3M Round Cable Non-Shielded Junction Shells
3M Flat Cable Junction Shells
3M Dust Cover for Panel Mount Receptacle

3M™ MetPak™ 2-FB Connectors

3M MetPak Board-to-Board Copper Connectors
3M MetPak Shroud Board-to-Board Copper Connectors
3M MetPak Power Board-to-Board Copper Connectors

3M™ Pak 5, 8, 10 Connectors

3M Pak 5 Board-to-Board Copper Connectors
3M Pak 5 Board Stacking System, P0N5
3M Pak 8 Board-to-Board Copper Connectors
3M Pak 8 Board-to-Board Hermaphroditic Connectors
3M Pak 10 Board-to-Board Copper Connectors
3M Pak 10 Board Stacking System, P10

3M™ Pak 20 Connectors

3M Pak 20 Boardmount-to-Wiremount Connectors
3M Pak 20 Shunt-to-Boardmount Connectors

3M™ Pak 50 Connectors

3M Pak 50 Board-to-Board Stacking Connectors
3M Pak 50 Board-to-Board Connectors
3M Pak 50 Board-to-Board Maxi-Mate Connectors
3M Pak 50 Low Profile Board-to-Board Surfacemount Connectors
3M Pak 50 Low Profile Board-to-Board Connectors
3M Pak 50 Wiremount-to-Boardmount Connectors
3M Pak 50 I/O Board/Panelmount-Wiremount Connectors
3M Pak 50 I/O Wiremount Junction Shells
3M Pak 50 Low Profile Wiremount-to-A66 Boardmount Connectors
3M Pak 50 Board-to-Wiremount Connectors

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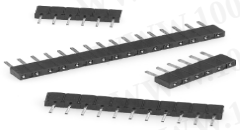

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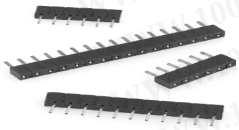

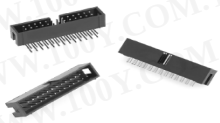

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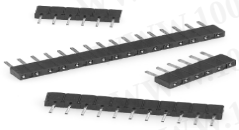

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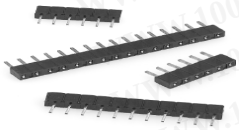
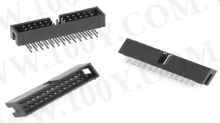
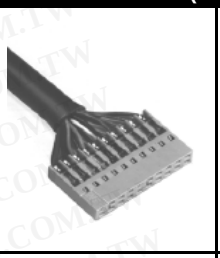
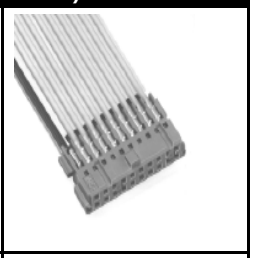




3M™ Board-to-Wire Copper Connectors

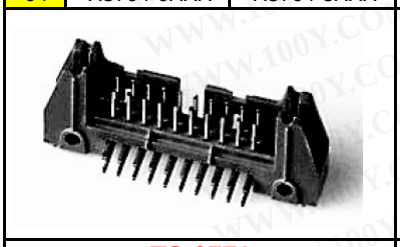
.100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

TS-0772	TS-0718	TS-0094	TS-0449	TS-0191	TS-0192

Latch/Eject Header			Mating Wiremount Socket					
			3000 Series		79 Series	891 Series	CHG Series	
Positions	Vertical 4-Wall	Right Angle 4-Wall	Open Cover Sockets	Closed Cover Sockets	Open Cover Half High Center Bump	Preassem. Open Cover Only	2-Row No Center Bump	DIN Style Polarization
10	X3793-6XXX	X3793-5XXX	3473-6XXX	3473-7XXX	-	89110-0XXX	CHG -2010-01010	CHG -2010-X01010
14	X3314-6XXX	X3314-5XXX	3385-6XXX	3385-7XXX	-	89114-0XXX	CHG -2014-01010	CHG -2014-X01010
16	X3408-6XXX	X3408-5XXX	3452-6XXX	3452-7XXX	-	89116-0XXX	CHG -2016-01010	CHG -2016-X01010
20	X3428-6XXX	X3428-5XXX	3421-6XXX	3421-7XXX	-	89120-0XXX	CHG -2020-01010	CHG -2020-X01010
24	X3627-6XXX	X3627-5XXX	3626-6XXX	3626-7XXX	-	89124-0XXX	CHG -2024-01010	CHG -2024-X01010
26	X3429-6XXX	X3429-5XXX	3399-6XXX	3399-7XXX	-	89126-0XXX	CHG -2026-01010	CHG -2026-X01010
30	X3440-6XXX	X3440-5XXX	3419-6XXX	3419-7XXX	-	89130-0XXX	CHG -2030-01010	CHG -2030-X01010
34	X3431-6XXX	X3431-5XXX	3414-6XXX	3414-7XXX	-	89134-0XXX	CHG -2034-01010	CHG -2034-X01010
40	X3432-6XXX	X3432-5XXX	3417-6XXX	3417-7XXX	-	89140-0XXX	CHG -2040-01010	CHG -2040-X01010
50	X3433-6XXX	X3433-5XXX	3425-6XXX	3425-7XXX	-	89150-0XXX	CHG -2050-01010	CHG -2050-X01010
60	X3372-6XXX	X3372-5XXX	3334-6XXX	3334-7XXX	-	89160-0XXX	CHG -2060-01010	CHG -2060-X01010
64	X3764-6XXX	X3764-5XXX	-	-	7964-6500	-	CHG -2064-01010	CHG -2064-X01010



TS-0771	TS-0718	TS-0094	TS-0449	TS-0191	TS-0192

Latch/Eject Header			Mating Wiremount Sockets					
			3000 Series		79 Series	891 Series	CHG Series	
Positions	Vertical 3-Wall	Right Angle 3-Wall	Open Cover Sockets	Closed Cover Sockets	Open Cover Half High Center Bump	Preassem. Open Cover Only	2-Row No Center Bump	DIN Style Polarization
10	X3793-2XXX	X3793-1XXX	3473-6XXX	3473-7XXX	-	89110-0XXX	CHG -2010-01010	CHG -2010-X01010
14	X3314-2XXX	X3314-1XXX	3385-6XXX	3385-7XXX	-	89114-0XXX	CHG -2014-01010	CHG -2014-X01010
16	X3408-2XXX	X3408-1XXX	3452-6XXX	3452-7XXX	-	89116-0XXX	CHG -2016-01010	CHG -2016-X01010
20	X3428-2XXX	X3428-1XXX	3421-6XXX	3421-7XXX	-	89120-0XXX	CHG -2020-01010	CHG -2020-X01010
24	X3627-2XXX	X3627-1XXX	3626-6XXX	3626-7XXX	-	89124-0XXX	CHG -2024-01010	CHG -2024-X01010
26	X3429-2XXX	X3429-1XXX	3399-6XXX	3399-7XXX	-	89126-0XXX	CHG -2026-01010	CHG -2026-X01010
30	X3440-2XXX	X3440-1XXX	3419-6XXX	3419-7XXX	-	89130-0XXX	CHG -2030-01010	CHG -2030-X01010
34	X3431-2XXX	X3431-1XXX	3414-6XXX	3414-7XXX	-	89134-0XXX	CHG -2034-01010	CHG -2034-X01010
40	X3432-2XXX	X3432-1XXX	3417-6XXX	3417-7XXX	-	89140-0XXX	CHG -2040-01010	CHG -2040-X01010
50	X3433-2XXX	X3433-1XXX	3425-6XXX	3425-7XXX	-	89150-0XXX	CHG -2050-01010	CHG -2050-X01010
60	X3372-2XXX	X3372-1XXX	3334-6XXX	3334-7XXX	-	89160-0XXX	CHG -2060-01010	CHG -2060-X01010
64	X3764-2XXX	X3764-1XXX	-	-	7964-6500	-	CHG -2064-01010	CHG -2064-X01010

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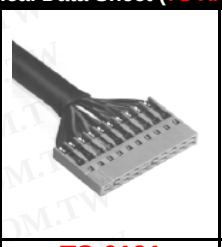
3M™ Board-to-Wire Copper Connectors

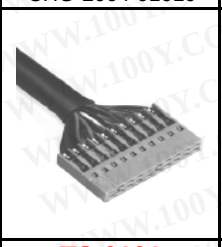
.100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).



TS-0773	TS-0774	TS-0718	TS-0094	TS-0449	TS-0191	TS-0192

Latch/Eject Condo Header			Mating Wiremount Socket					
			3000 Series		79 Series	891 Series	CHG Series	
Positions	Right Angle 3-Wall	Right Angle 4-Wall	Open Cover Sockets	Closed Cover Sockets	Open Cover Half High Center Bump	Preassem. Open Cover Only	2-Row No Center Bump	DIN Style Polarization
10	X3793-DX0X	X3793-LX0X	3473-6XXX	3473-7XXX	-	89110-0XXX	CHG-2010-01010	CHG-2010-X01010
14	X3314-DX0X	X3314-LX0X	3385-6XXX	3385-7XXX	-	89114-0XXX	CHG-2014-01010	CHG-2014-X01010
16	X3408-DX0X	X3408-LX0X	3452-6XXX	3452-7XXX	-	89116-0XXX	CHG-2016-01010	CHG-2016-X01010
20	X3428-DX0X	X3428-LX0X	3421-6XXX	3421-7XXX	-	89120-0XXX	CHG-2020-01010	CHG-2020-X01010
26	X3429-DX0X	X3429-LX0X	3399-6XXX	3399-7XXX	-	89126-0XXX	CHG-2026-01010	CHG-2026-X01010
34	X3431-DX0X	X3431-LX0X	3414-6XXX	3414-7XXX	-	89134-0XXX	CHG-2034-01010	CHG-2034-X01010
40	X3432-DX0X	X3432-LX0X	3417-6XXX	3417-7XXX	-	89140-0XXX	CHG-2040-01010	CHG-2040-X01010
50	X3433-DX0X	X3433-LX0X	3425-6XXX	3425-7XXX	-	89150-0XXX	CHG-2050-01010	CHG-2050-X01010
60	X3372-DX0X	X3372-LX0X	3334-6XXX	3334-7XXX	-	89160-0XXX	CHG-2060-01010	CHG-2060-X01010
64	X3764-DX0X	X3764-LX0X	-	-	7964-6500	-	CHG-2064-01010	CHG-2064-X01010



TS-0478	TS-0718	TS-0094	TS-0449	TS-0191	TS-0192

Compliant Pin Header		Mating Wiremount Socket					
		3000 Series		79 Series	891 Series	CHG Series	
Positions	Compliant Pin	Open Cover Sockets	Closed Cover Sockets	Open Cover Half High Center Bump	Preassem. Open Cover Only	2-Row No Center Bump	DIN Style Polarization
10	X3793-6X0T02XX	3473-6XXX	3473-7XXX	-	89110-0XXX	CHG -2010-01010	CHG -2010-X01010
14	X3314-6X0T02XX	3385-6XXX	3385-7XXX	-	89114-0XXX	CHG -2014-01010	CHG -2014-X01010
16	X3408-6X0T02XX	3452-6XXX	3452-7XXX	-	89116-0XXX	CHG -2016-01010	CHG -2016-X01010
20	X3428-6X0T02XX	3421-6XXX	3421-7XXX	-	89120-0XXX	CHG -2020-01010	CHG -2020-X01010
24	X3627-6X0T02XX	3626-6XXX	3626-7XXX	-	89124-0XXX	CHG -2024-01010	CHG -2024-X01010
26	X3429-6X0T02XX	3399-6XXX	3399-7XXX	-	89126-0XXX	CHG -2026-01010	CHG -2026-X01010
30	X3440-6X0T02XX	3419-6XXX	3419-7XXX	-	89130-0XXX	CHG -2030-01010	CHG -2030-X01010
34	X3431-6X0T02XX	3414-6XXX	3414-7XXX	-	89134-0XXX	CHG -2034-01010	CHG -2034-X01010
40	X3432-6X0T02XX	3417-6XXX	3417-7XXX	-	89140-0XXX	CHG -2040-01010	CHG -2040-X01010
50	X3433-6X0T02XX	3425-6XXX	3425-7XXX	-	89150-0XXX	CHG -2050-01010	CHG -2050-X01010
60	X3372-6X0T02XX	3334-6XXX	3334-7XXX	-	89160-0XXX	CHG -2060-01010	CHG -2060-X01010
64	X3764-6X0T02XX	-	-	7964-6500	-	CHG -2064-01010	CHG -2064-X01010

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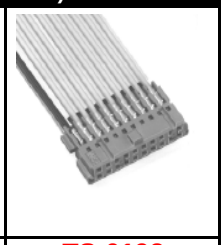
3M™ Board-to-Wire Copper Connectors

.100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).



TS- 0161	TS-0718	TS-0094	TS-0449	TS-0191	TS-0192

Pinless Shroud		Mating Wiremount Socket					
		3000 Series		79 Series	891 Series	CHG Series	
Positions	Pinless Shroud Header	Open Cover Sockets	Closed Cover Sockets	Open Cover Half High Center Bump	Preassem. Open Cover Only	2-Row No Center Bump	DIN Style Polarization
20	6420-9X00	3421-6XXX	3421-7XXX	-	89120-0XXX	CHG-2020-01010	CHG-2020-X01010
26	6426-9X00	3626-6XXX	3626-7XXX	-	89126-0XXX	CHG-2026-01010	CHG-2026-X01010
34	6434-9X00	3414-6XXX	3414-7XXX	-	89134-0XXX	CHG-2034-01010	CHG-2034-X01010
40	6440-9X00	3417-6XXX	3417-7XXX	-	89140-0XXX	CHG-2040-01010	CHG-2040-X01010
50	6450-9X00	3425-6XXX	3425-7XXX	-	89150-0XXX	CHG-2050-01010	CHG-2050-X01010

TS- 0168	TS-0718	TS-0094	TS-0449	TS-0191	TS-0192

Pinless Shroud		Mating Wiremount Socket					
		3000 Series		79 Series	891 Series	CHG Series	
Positions	Surfacemount Header	Open Cover Sockets	Closed Cover Sockets	Open Cover Half High Center Bump	Preassem. Open Cover Only	2-Row No Center Bump	DIN Style Polarization
10	N4610-2XX0	3473-6XXX	3473-7XXX	-	89110-0XXX	CHG-2010-01010	CHG-2010-X01010
14	-	-	-	-	-	-	-
16	N4616-2XX0	3452-6XXX	3452-7XXX	-	89116-0XXX	CHG-2016-01010	CHG-2016-X01010
20	N4620-2XX0	3421-6XXX	3421-7XXX	-	89120-0XXX	CHG-2020-01010	CHG-2020-X01010
24	-	-	-	-	-	-	-
26	N4626-2XX0	3399-6XXX	3399-7XXX	-	89126-0XXX	CHG-2026-01010	CHG-2026-X01010
30	-	-	-	-	-	-	-
34	N4634-2XX0	3414-6XXX	3414-7XXX	-	89134-0XXX	CHG-2034-01010	CHG-2034-X01010
40	N4640-2XX0	3417-6XXX	3417-7XXX	-	89140-0XXX	CHG-2040-01010	CHG-2040-X01010
50	N4650-2XX0	3425-6XXX	3425-7XXX	-	89150-0XXX	CHG-2050-01010	CHG-2050-X01010
60	N4660-2XX0	3334-6XXX	3334-7XXX	-	89160-0XXX	CHG-2060-01010	CHG-2060-X01010
64	-	-	-	-	-	-	-

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3M™ Board-to-Wire Copper Connectors

.100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

	TS-0818		TS-0718		TS-0094	TS-0449	TS-0191	TS-0192
	Low Profile Header		Mating Wiremount Socket					
			3000 Series		79 Series	891 Series	CHG Series	
Positions	Vertical 4-Wall	Right Angle 4-Wall	Open Cover Sockets	Closed Cover Sockets	Open Cover Half High Center Bump	Preassem. Open Cover Only	2-Row No Center Bump	DIN Style Polarization
6	30306-6XXX	30306-5XXX	-	-	-	-	-	-
8	30308-6XXX	30308-5XXX	-	-	-	-	-	-
10	30310-6XXX	30310-5XXX	3473-6XXX	3473-7XXX	-	89110-0XXX	CHG-2010-01010	CHG-2010-X01010
14	30314-6XXX	30314-5XXX	3385-6XXX	3385-7XXX	-	89114-0XXX	CHG-2014-01010	CHG-2014-X01010
16	30316-6XXX	30316-5XXX	3452-6XXX	3452-7XXX	-	89116-0XXX	CHG-2016-01010	CHG-2016-X01010
20	30320-6XXX	30320-5XXX	3421-6XXX	3421-7XXX	-	89120-0XXX	CHG-2020-01010	CHG-2020-X01010
24	-	-	3626-6XXX	3626-7XXX	-	89124-0XXX	CHG-2024-01010	CHG-2024-X01010
26	30326-6XXX	30326-5XXX	3399-6XXX	3399-7XXX	-	89126-0XXX	CHG-2026-01010	CHG-2026-X01010
30	-	-	3419-6XXX	3419-7XXX	-	89130-0XXX	CHG-2030-01010	CHG-2030-X01010
34	30334-6XXX	30334-5XXX	3414-6XXX	3414-7XXX	-	89134-0XXX	CHG-2034-01010	CHG-2034-X01010
40	30340-6XXX	30340-5XXX	3417-6XXX	3417-7XXX	-	89140-0XXX	CHG-2040-01010	CHG-2040-X01010
50	30350-6XXX	30350-5XXX	3425-6XXX	3425-7XXX	-	89150-0XXX	CHG-2050-01010	CHG-2050-X01010
60	-	-	3334-6XXX	3334-7XXX	-	89160-0XXX	CHG-2060-01010	CHG-2060-X01010
64	-	-	-	-	7964-6500	-	CHG-2064-01010	CHG-2064-X01010

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3M™ Board-to-Wire Copper Connectors

.100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

Low Profile Header			Mating Wiremount Socket					
			3000 Series		79 Series	891 Series	CHG Series	
	TS-0770		TS-0718		TS-0094	TS-0449	TS-0191	TS-0192
Positions	Vertical 4-Wall	Right Angle 4-Wall	Open Cover Sockets	Closed Cover Sockets	Open Cover Half High Center Bump	Preassem. Open Cover Only	2-Row No Center Bump	DIN Style Polarization
10	X2510-6XXX	X2510-5XXX	3473-6XXX	3473-7XXX	-	89110-0XXX	CHG-2010-01010	CHG-2010-X01010
14	X2514-6XXX	X2514-5XXX	3385-6XXX	3385-7XXX	-	89114-0XXX	CHG-2014-01010	CHG-2014-X01010
16	X2516-6XXX	X2516-5XXX	3452-6XXX	3452-7XXX	-	89116-0XXX	CHG-2016-01010	CHG-2016-X01010
20	X2520-6XXX	X2520-5XXX	3421-6XXX	3421-7XXX	-	89120-0XXX	CHG-2020-01010	CHG-2020-X01010
24	X2524-6XXX	X2524-5XXX	3626-6XXX	3626-7XXX	-	89124-0XXX	CHG-2024-01010	CHG-2024-X01010
26	X2526-6XXX	X2526-5XXX	3399-6XXX	3399-7XXX	-	89126-0XXX	CHG-2026-01010	CHG-2026-X01010
30	X2530-6XXX	X2530-5XXX	3419-6XXX	3419-7XXX	-	89130-0XXX	CHG-2030-01010	CHG-2030-X01010
34	X2534-6XXX	X2534-5XXX	3414-6XXX	3414-7XXX	-	89134-0XXX	CHG-2034-01010	CHG-2034-X01010
40	X2540-6XXX	X2540-5XXX	3417-6XXX	3417-7XXX	-	89140-0XXX	CHG-2040-01010	CHG-2040-X01010
50	X2550-6XXX	X2550-5XXX	3425-6XXX	3425-7XXX	-	89150-0XXX	CHG-2050-01010	CHG-2050-X01010
60	X2560-6XXX	X2560-5XXX	3334-6XXX	3334-7XXX	-	89160-0XXX	CHG-2060-01010	CHG-2060-X01010
64	X2564-6XXX	X2564-5XXX	-	-	7964-6500	-	CHG-2064-01010	CHG-2064-X01010

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3M™ Board-to-Wire Copper Connectors

100" and .100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

TS-See chart below			**TS-0815**	**TS-0814**	**TS-0189**	**TS-0191**
Pin Strip Header			**Boardmount Socket**	**Through-Board Socket**	**CHG Wiremount Socket**	
1-Row						
Straight	**Right Angle**					
23XX-61X1TX Gold Plating	23XX-51X1TX Gold Plating	**TS-0766**	9X9850-01-XX-XX	9X9841-01-XX-XX	CHG-10XX-001010-KXP	
929647-XX-XX Gold Plating	929648-XX-XX Gold Plating	**TS-0769**	9X9850-01-XX-XX	9X9841-01-XX-XX	CHG-10XX-001010-KXP	
929705-XX-XX Gold Plating	-		9X9850-01-XX-XX	9X9841-01-XX-XX	CHG-10XX-001010-KXP	
929834-XX-XX Tin Plating	929835-XX-XX Tin Plating		9X9974-01-XX-XX			
929700-XX-XX Tin Plating	929730-XX-XX Tin Plating		9X9974-01-XX-XX			
2-Row						
23XX-61X1TX Gold Plating	23XX-51X1 TX Gold Plating	**TS-0766**	9X9852-01-XX-XX	9X9842-01-XX-XX	CHG-20XX-001010-KXP	
929665-XX-XX	929667-XX-XX	**TS-0769** Gold Plated	9X9852-01-XX-XX	9X9842-01-XX-XX	CHG-20XX-001010-KXP	
929715-XX-XX	929745-XX-XX		9X9852-01-XX-XX	9X9842-01-XX-XX	CHG-20XX-001010-KXP	
929836-XX-XX	929838-XX-XX	**TS-0769** Tin Plated	9X9975-01-XX-XX			
929710-XX-XX	-		9X9975-01-XX-XX			

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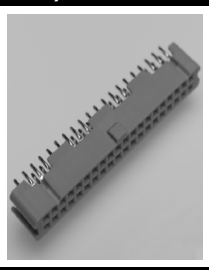
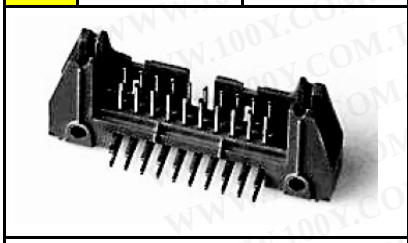
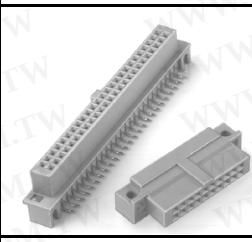
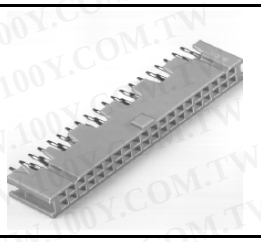
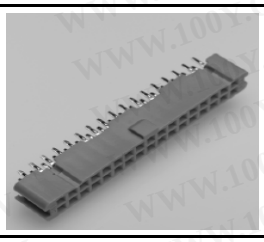
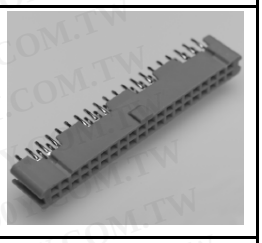
3M™ Board-to-Board Copper Connectors

.100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).



	TS-0772		TS-0414	TS-0413	TS-0689	TS-0690
	Latch/Eject Header		Mating Boardmount Socket			
			5100 Series	8500 Series	6800 Series	9100 Series
Positions	Vertical 4-Wall	Right Angle 4-Wall	Right Angle Vertical	Vertical		
10	X3793-60XX	X3793-50XX	-	8510-4500XL	-	-
14	X3314-60XX	X3314-50XX	-	-	-	-
16	X3408-60XX	X3408-50XX	-	8516-4500XL	-	-
20	X3428-60XX	X3428-50XX	5120-B7A2XX	8520-4500XL	-	9120-4500XL
24	X3627-60XX	X3627-50XX	-	-	-	-
26	X3429-60XX	X3429-50XX	5126-B7A2XX	8526-4500XL	-	9126-4500XL
30	X3440-60XX	X3440-50XX	5130-B7A2XX	-	-	
34	X3431-60XX	X3431-50XX	5134-B7A2XX	8534-4500XL	6834-4500XL	9134-4500XL
40	X3432-60XX	X3432-50XX	5140-B7A2XX	8540-4500XL	6840-4500XL	9140-4500XL
50	X3433-60XX	X3433-50XX	5150-B7A2XX	8550-4500XL	6850-4500XL	9150-4500XL
60	X3372-60XX	X3372-50XX	5160-B7A2XX	8560-4500XL	-	9160-4500XL
64	X3764-60XX	X3764-50XX	5164-B7A2XX	8564-4500XL	-	9164-4500XL

	TS-0771		TS-0414	TS-0413	TS-0689	TS-0690
	Latch/Eject Header		Mating Boardmount Socket			
			5100 Series	8500 Series	6800 Series	9100 Series
Positions	Vertical 3-Wall	Right Angle 3-Wall	Right Angle Vertical	Vertical		
10	X3793-20XX	X3793-10XX	-	8510-4500XL	-	-
14	X3314-20XX	X3314-10XX	-	-	-	-
16	X3408-20XX	X3408-10XX	-	8516-4500XL	-	-
20	X3428-20XX	X3428-10XX	5120-B7A2XX	8520-4500XL	-	9120-4500XL
24	X3627-20XX	X3627-10XX	-	-	-	-
26	X3429-20XX	X3429-10XX	5126-B7A2XX	8526-4500XL	-	9126-4500XL
30	X3440-20XX	X3440-10XX	5130-B7A2XX	-	-	
34	X3431-20XX	X3431-10XX	5134-B7A2XX	8534-4500XL	6834-4500XL	9134-4500XL
40	X3432-20XX	X3432-10XX	5140-B7A2XX	8540-4500XL	6840-4500XL	9140-4500XL
50	X3433-20XX	X3433-10XX	5150-B7A2XX	8550-4500XL	6850-4500XL	9150-4500XL
60	X3372-20XX	X3372-10XX	5160-B7A2XX	8560-4500XL	-	9160-4500XL
64	X3764-20XX	X3764-10XX	5164-B7A2XX	8564-4500XL	-	9164-4500XL

It is recommended the latch option not be used with the boardmount sockets.

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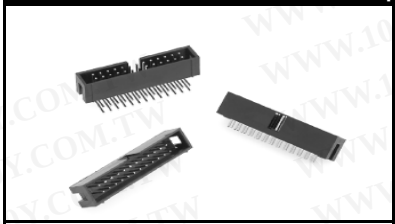
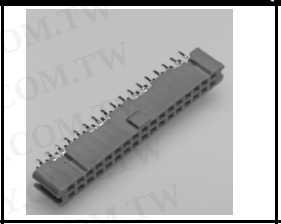
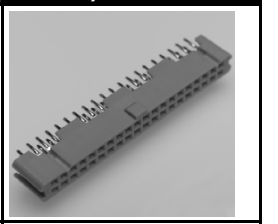
3M™ Board-to-Board Copper Connectors

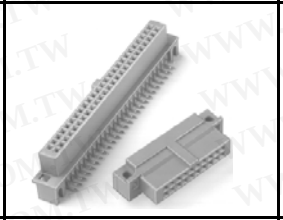
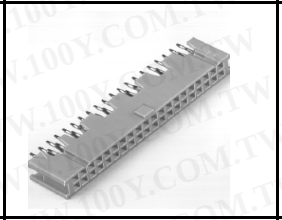
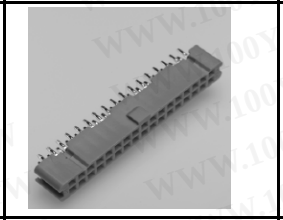
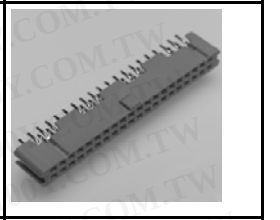
.100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).



	TS-0818		TS-0414	TS-0413	TS-0689	TS-0690
	Headers, Low Profile		Mating Boardmount Socket			
Positions	303 Series		5100 Series	8500 Series	6800 Series	9100 Series
	Vertical 4-Wall	Right Angle 4-Wall	Right Angle	Vertical		
6	30306-60XX	30306-50XX	-	-	-	
8	30308-60XX	30308-50XX	-	-	-	
10	30310-60XX	30310-50XX	-	8510-4500XL	-	-
14	30314-60XX	30314-50XX	-	-	-	-
16	30316-60XX	30316-50XX	-	8516-4500XL	-	-
20	30320-60XX	30320-50XX	5120-B7A2XX	8520-4500XL	-	9120-4500XL
24	-	-	-	-	-	-
26	30326-60XX	30326-50XX	5126-B7A2XX	8526-4500XL	-	9126-4500XL
30	-	-	5130-B7A2XX	-	-	
34	30334-60XX	30334-50XX	5134-B7A2XX	8534-4500XL	6834-4500XL	9134-4500XL
40	30340-60XX	30340-50XX	5140-B7A2XX	8540-4500XL	6840-4500XL	9140-4500XL
50	30350-60XX	30350-50XX	5150-B7A2XX	8550-4500XL	6850-4500XL	9150-4500XL
60	-	-	5160-B7A2XX	8560-4500XL	-	9160-4500XL
64	-	-	5164-B7A2XX	8564-4500XL	-	9164-4500XL

	TS-0770		TS-0414	TS-0413	TS-0689	TS-0690
	Headers, Low Profile		Mating Boardmount Socket			
Positions	2500 Series		5100 Series	8500 Series	6800 Series	9100 Series
	Vertical 4-Wall	Right Angle 4-Wall	Right Angle	Vertical		
10	X2510-6XXX	X2510-5XXX	-	8510-4500XL	-	-
14	X2514-6XXX	X2514-5XXX	-	-	-	-
16	X2516-6XXX	X2516-5XXX	-	8516-4500XL	-	-
20	X2520-6XXX	X2520-5XXX	5120-B7A2XX	8520-4500XL	-	9120-4500XL
24	X2524-6XXX	X2524-5XXX	-	-	-	-
26	X2526-6XXX	X2526-5XXX	5126-B7A2XX	8526-4500XL	-	9126-4500XL
30	X2530-6XXX	X2530-5XXX	5130-B7A2XX	-	-	
34	X2534-6XXX	X2534-5XXX	5134-B7A2XX	8534-4500XL	6834-4500XL	9134-4500XL
40	X2540-6XXX	X2540-5XXX	5140-B7A2XX	8540-4500XL	6840-4500XL	9140-4500XL
50	X2550-6XXX	X2550-5XXX	5150-B7A2XX	8550-4500XL	6850-4500XL	9150-4500XL
60	X2560-6XXX	X2560-5XXX	5160-B7A2XX	8560-4500XL	-	9160-4500XL
64	X2564-6XXX	X2564-5XXX	5164-B7A2XX	8564-4500XL	-	9164-4500XL

It is recommended the latch option not be used with the boardmount sockets.

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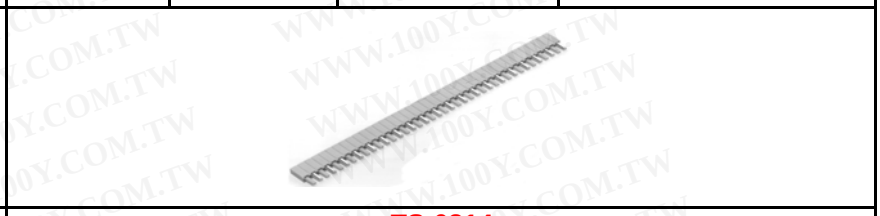
3M™ Board-to-Board Copper Connectors

.100" and .100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

TS-0766		TS-0815			
Pin Strip Header		Single-Row Boardmount Socket		2-Row Boardmount Socket	
TS-0766		TS-0815		TS-0815	
2300 Series		929 Series		929 Series	
Straight Solder Tail	Right Angle Solder Tail	Gold Plating	Tin Plating	Gold Plating	Tin Plating
23XX-6XX1	23XX-5XX1	9X9850	9X9974	9X9852	9X9975



TS-0766		TS-0814	
Pin Strip Header		Mating Through-Board Socket	
TS-0766		TS-0814	
2300 Series		929 Series	929 Series
Straight	Right Angle	Single-Row	2-Row
23XX-6XX1	23XX-5XX1	929841	929842

3M™ Board-to-Board Copper Connectors

.100" x .75" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

TS-0300		TS-0322
502 Series		501 Series
Compact Headers, Right Angle		Mating Wiremount Socket
Pos	Compact Header Part	Compact Socket Part
16	50216-B002	50116-B000
20	50220-B002	50120-B000
26	50226-B002	50126-B000
34	50234-B002	50134-B000
40	50240-B002	50140-B000
44	50244-B002	50144-B000
50	50250-B002	50150-B000

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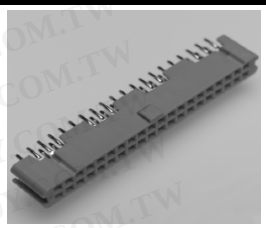
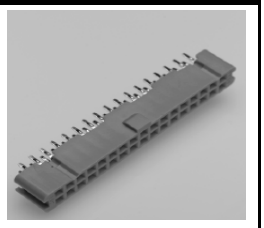
3M™ Wire-to-Board Copper Connectors

.100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

					
	TS-0086	TS-0414	TS-0413	TS-0689	TS-0690
	Wiremount Plug (Header)	Mating Boardmount Socket			
	4600 Series	5100 Series	8500 Series	6800 Series	9100 Series
Positions	Open Cover / Closed Cover	Right Angle	Vertical		
10	4610-60XX / 4610-70XX		8510-4500XL	-	-
14	4614-60XX / 4614-70XX			-	-
16	4616-60XX / 4616-70XX		8516-4500XL	-	-
20	4620-60XX / 4620-70XX	5120-B7A2XX	8520-4500XL	-	9120-4500XL
24	4624-60XX / 4624-70XX			-	
26	4626-60XX / 4626-70XX	5126-B7A2XX	8526-4500XL	-	9126-4500XL
30	4630-60XX / 4630-70XX	5130-B7A2XX		-	-
34	4634-60XX / 4634-70XX	5134-B7A2XX	8534-4500XL	6834-4500XL	9134-4500XL
40	4640-60XX / 4640-70XX	5140-B7A2XX	8540-4500XL	6840-4500XL	9140-4500XL
50	4650-60XX / 4650-70XX	5150-B7A2XX	8550-4500XL	6850-4500XL	9150-4500XL
60	4660-60XX / 4660-70XX	5160-B7A2XX	8560-4500XL	-	9160-4500XL
64	4664-60XX / 4664-70XX	5164-B7A2XX	8564-4500XL	-	9164-4500XL

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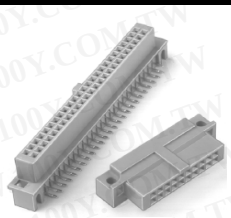
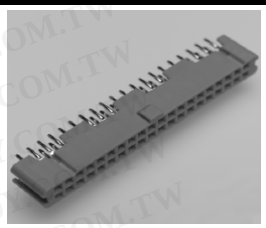
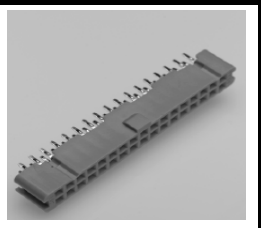
3M™ Wire-to-Board Copper Connectors

.100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

					
	TS-0086	TS-0414	TS-0413	TS-0689	TS-0690
	Wiremount Plug (Header)	Mating Boardmount Socket			
Positions	4600 Series	5100 Series	8500 Series	6800 Series	9100 Series
	Open Cover / Closed Cover	Right Angle	Vertical		
10	4610-60XX / 4610-70XX		8510-4500XL	-	-
14	4614-60XX / 4614-70XX			-	-
16	4616-60XX / 4616-70XX		8516-4500XL	-	-
20	4620-60XX / 4620-70XX	5120-B7A2XX	8520-4500XL	-	9120-4500XL
24	4624-60XX / 4624-70XX			-	
26	4626-60XX / 4626-70XX	5126-B7A2XX	8526-4500XL	-	9126-4500XL
30	4630-60XX / 4630-70XX	5130-B7A2XX		-	-
34	4634-60XX / 4634-70XX	5134-B7A2XX	8534-4500XL	6834-4500XL	9134-4500XL
40	4640-60XX / 4640-70XX	5140-B7A2XX	8540-4500XL	6840-4500XL	9140-4500XL
50	4650-60XX / 4650-70XX	5150-B7A2XX	8550-4500XL	6850-4500XL	9150-4500XL
60	4660-60XX / 4660-70XX	5160-B7A2XX	8560-4500XL	-	9160-4500XL
64	4664-60XX / 4664-70XX	5164-B7A2XX	8564-4500XL	-	9164-4500XL

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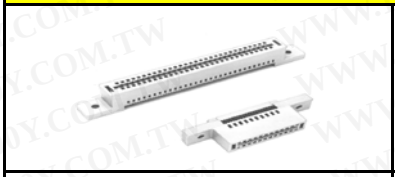
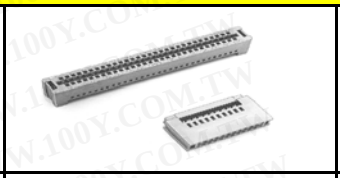
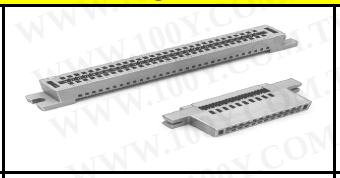
3M™ Wire-to-Board Copper Connectors

.100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

.100" Wiremount Card-Edge

				**Printed Circuit Board**
	TS-0012	**TS-0010**	**TS-0011**	
	3000 Series	**3000 Series**	**3000 Series**	
	Drilled Mounting Flanges	**Without Mounting Flanges**	**Slotted Mounting Flanges**	
Pos				
10	3358-0000	3358-0001	3358-0002	Card-edge connectors were designed for a board thickness of .054" to .070".
16	3368-0000	3368-0001	3368-0002	
20	3461-0000	3461-0001	3461-0002	
26	3462-0000	3462-0001	3462-0002	
34	3463-0000	3463-0001	3463-0002	
40	3464-0000	3464-0001	3464-0002	
50	3415-0000	3415-0001	3415-0002	
60	3666-0000	3666-0001	3666-0002	
64	3403-0000	3403-0001	3403-0002	

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3M™ Wire-to-Wire Copper Connectors

.100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

TS-0086		TS-0718		TS-0094	TS-0449	TS-0191	TS-0192
Wiremount Plug (Header)		Mating Wiremount Socket					
4600 Series		3000 Series		79 Series	891 Series	CHG Series	
Positions	Open Cover	Closed Cover	Open Cover Sockets	Closed Cover Sockets	Open Cover Half High Center Bump	Preassem. Open Cover Only	2-Row No Center Bump	DIN Style Polarization
10	4610-60XX	4610-70XX	3473-6XXX	3473-7XXX	-	89110-0XXX	CHG-2010-01010	CHG-2010-X01010
14	4614-60XX	4614-70XX	3385-6XXX	3385-7XXX	-	89114-0XXX	CHG-2014-01010	CHG-2014-X01010
16	4616-60XX	4616-70XX	3452-6XXX	3452-7XXX	-	89116-0XXX	CHG-2016-01010	CHG-2016-X01010
20	4620-60XX	4620-70XX	3421-6XXX	3421-7XXX	-	89120-0XXX	CHG-2020-01010	CHG-2020-X01010
24	4624-60XX	4624-70XX	3626-6XXX	3626-7XXX	-	89124-0XXX	CHG-2024-01010	CHG-2024-X01010
26	4626-60XX	4626-70XX	3399-6XXX	3399-7XXX	-	89126-0XXX	CHG-2026-01010	CHG-2026-X01010
30	4630-60XX	4630-70XX	3419-6XXX	3419-7XXX	-	89130-0XXX	CHG-2030-01010	CHG-2030-X01010
34	4634-60XX	4634-70XX	3414-6XXX	3414-7XXX	-	89134-0XXX	CHG-2034-01010	CHG-2034-X01010
40	4640-60XX	4640-70XX	3417-6XXX	3417-7XXX	-	89140-0XXX	CHG-2040-01010	CHG-2040-X01010
50	4650-60XX	4650-70XX	3425-6XXX	3425-7XXX	-	89150-0XXX	CHG-2050-01010	CHG-2050-X01010
60	4660-60XX	4660-70XX	3334-6XXX	3334-7XXX	-	89160-0XXX	CHG-2060-01010	CHG-2060-X01010
64	4664-60XX	4664-70XX	-	-	7964-6500	-	CHG-2064-01010	CHG-2064-X01010

It is recommended that the latch option not be used with the Boardmount Sockets.

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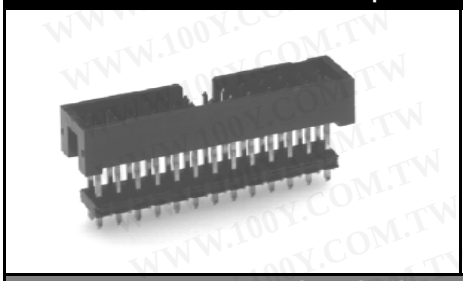
3M™ Low Profile Board-to-Board Copper Connectors

.100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).				
TS-0816			TS-0211	
Pin Strip Header			Mating Boardmount Socket	
TS-0816			TS-0211	
929 Series			929 Series	929 Series
Single-Row	Single-Row	2-Row	Gold	Tin
9X9805	9X9800	9X9815	929870	929984

3M™ Board Stacking Connector

.100" x .100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).				
				
Shrunk Shroud Header			Mating Boardmount Socket	
Positions	924 Series	925 Series	929 Series	
			2-Row Gold Plating	2-Row Tin Plating
	TS-0548	TS-0549	TS-0815	TS-0815
10	924327-XX-10-I	925320-01-10-10	929852-01-05-XX	929975-01-05-XX
14	924327-XX-14-I	925320-01-14-10	929852-01-07-XX	929975-01-07-XX
16	924327-XX-16-I	925320-01-16-10	929852-01-08-XX	929975-01-08-XX
20	924327-XX-20-I	925320-01-20-10	929852-01-10-XX	929975-01-10-XX
26	924327-XX-26-I	925320-01-26-10	929852-01-13-XX	929975-01-13-XX
34	924327-XX-34-I	925320-01-34-10	929852-01-17-XX	929975-01-17-XX
40	924327-XX-40-I	925320-01-40-10	929852-01-20-XX	929975-01-20-XX
50	924327-XX-50-I	925320-01-50-10	929852-01-25-XX	929975-01-25-XX
60	924327-XX-60-I	925320-01-60-10	929852-01-30-XX	929975-01-30-XX
64	924327-XX-64-I	925320-01-64-10	929852-01-32-XX	929975-01-32-XX

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3M™ Input/Output Wire-to-Wire Copper Connectors

.100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

D Sub Connectors and Junction Shells

	TS-0234	**TS-0235**	**TS-0037**	**TS-0031**	**TS-0036**	**TS-0032**	**TS-0245**
	8200 Series D Sub Plug	**8200 Series D Sub Socket**	**Non-Shielded 9 to 37 Pos.**	**EMI Shielded 9 to 37 Pos.**	**EMI Shielded 9 to 37 Pos.**	**EMI Shielded 9 to 37 Pos.**	**EMI Shielded 50 Pos. Only**
Pos							
9	8209-600X 8209-700X	8309-600X 8309-700X	3485-2100F 3485-2100R	**Plug** 3357-4109 **Socket** 3357-5109	3357-9209	3357-6509	
15	8215-600X 8215-700X	8315-600X 8315-700X	3485-2200F 3485-2200R	**Plug** 3357-4115 **Socket** 3357-5115	3357-9315	3357-6515	
25	8225-600X 8225-700X	8325-600X 8325-700X	3485-2300F 3485-2300R	**Plug** 3357-4125 **Socket** 3357-5125	3357-9325	3357-6525	
37	8237-600X 8237-700X	8337-600X 8337-700X	3485-2400F 3485-2400R	**Plug** 3357-4137 **Socket** 3357-5137	3357-9337	3357-6537	
50	8250-600X 8250-700X	8350-600X 8350-700X					3357-9250

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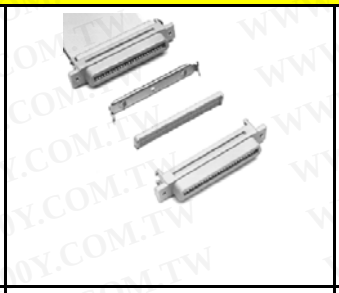
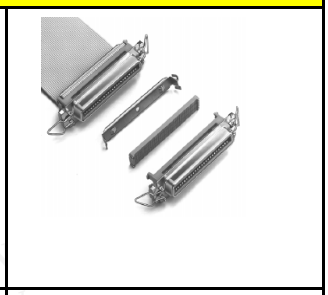
3M™ Input/Output Wire-to-Wire Copper Connectors

.100" Mating Chart

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

D Ribbon Connectors





	TS-0819	TS-0441	TS-0820	TS-0022	TS-0284
	3000 Series	3564 Series	3000 Series	3000 Series	3000 Series
	Wiremount Plug	Wiremount Plug	Wiremount Socket	Wiremount Socket	Wiremount Socket
Pos	Plastic Face	Metal Face	Plastic Face	Metal Face	Metal Face
14	3572-1000 3572-1001 3557-1002		3573-1000 3573-1001 3553-1002 3553-1006	3573-2000 3573-2002	
24	**IEEE488** 3548-1000 3548-1001 3548-1002		3549-1000 3549-1001 3549-1002 3549-1006	3549-2000 3549-2002	
36	3366-1000 3366-1001 3366-1002		3567-1000 3567-1001 3567-1002 3567-1006	3567-2000 3567-2002	3367-3000 3367-3002
50	3564-1000 3564-1001 3564-1002	3564-2000 3564-2001	3565-1000 3565-1001 3565-1002 3565-1006	3565-2000 3573-2002	3582-3000 3565-3000 3582-3002 3565-3002

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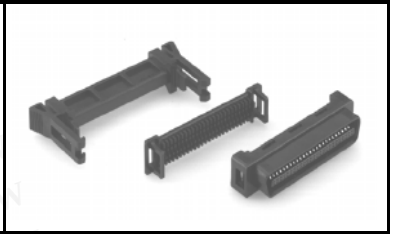
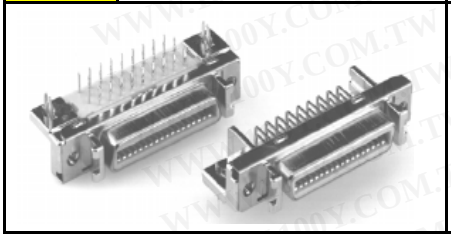
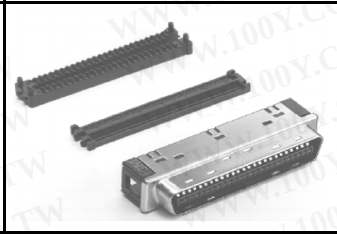
3M™ Board-to-Wire Copper Connectors

.50" x .50" Mating Chart

Note: All connector options and ordering information can be obtained from the technical data sheet (TS-XXXX).



.050" MDR Vertical Boardmount Receptacle		Mating Wiremount Plug		
		Shielded	Shielded Solder Cup	Non-Shielded
Pos	102 Series	101 Series	101 Series	101 Series
	TS-0427	TS-0423	TS-0669	TS-0514
14	10214-6212XX	10114-6000EC	10114-3000XX	-
20	10220-6212XX	10120-6000EC	10120-3000XX	-
26	10226-6212XX	10126-6000EC	10126-3000XX	-
36	10236-6212XX	10136-6000EC	10136-3000XX	-
40	10240-6212XX	10140-6000EC	10140-3000XX	-
50	10250-6212XX	10150-6000EC	10150-3000XX	10150-8X00EE
68	10268-6212XX	10168-6000EC	-	10168-8X00EE
80	10280-6212XX	10180-6000EC	-	-
100	102A0-6212XX	101A0-6000EC	-	-

.050" MDR Right Angle Boardmount Receptacle		Mating Wiremount Plug		
		Shielded	Shielded Solder Cup	Non-Shielded
Pos	102 Series	101 Series	101 Series	101 Series
	TS-0531	TS-0423	TS-0669	TS-0514
14	N10214-52XXXX	10114-6000EC	10114-3000XX	-
20	N10220-52XXXX	10120-6000EC	10120-3000XX	-
26	N10226-52XXXX	10126-6000EC	10126-3000XX	-
36	N10236-52XXXX	10136-6000EC	10136-3000XX	-
40	N10240-52XXXX	10140-6000EC	10140-3000XX	-
50	N10250-52XXXX	10150-6000EC	10150-3000XX	10150-8X00EE
68	N10268-52XXXX	10168-6000EC	-	10168-8X00EE
80	N10280-52XXXX	10180-6000EC	-	-
100	N102A0-52XXXX	101A0-6000EC	-	-

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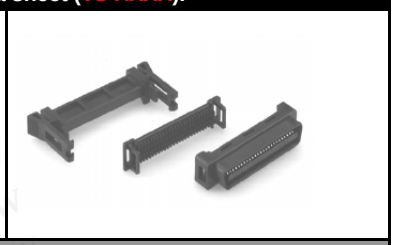
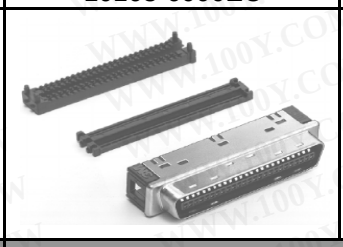
3M™ Board-to-Wire Copper Connectors

.50" x .50" Mating Chart

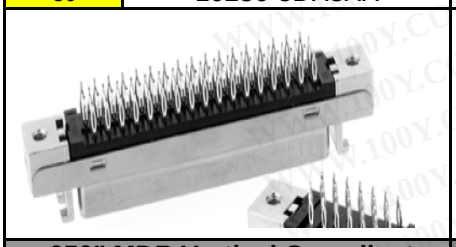
Note: All connector options and ordering information can be obtained from the technical data sheet (TS-XXXX).



.050" MDR Right Angle Boardmount Receptacle		Mating Wiremount Plug		
		Shielded	Shielded Solder Cup	Non-Shielded
Pos	102 Series	101 Series	101 Series	101 Series
	TS-0621	TS-0423	TS-0669	TS-0514
14	10214-55X3XX	10114-6000EC	10114-3000XX	-
20	10220-55X3XX	10120-6000EC	10120-3000XX	-
26	10226-55X3XX	10126-6000EC	10126-3000XX	-
36	10236-55X3XX	10136-6000EC	10136-3000XX	-
40	10240-55X3XX	10140-6000EC	10140-3000XX	-
50	10250-55X3XX	10150-6000EC	10150-3000XX	10150-8X00EE
68	10268-55X3XX	10168-6000EC	-	10168-8X00EE



.050" MDR Right Angle Boardmount Receptacle		Mating Wiremount Plug		
		Shielded	Shielded Solder Cup	Non-Shielded
Pos	102 Series	101 Series	101 Series	101 Series
	TS-0790	TS-0423	TS-0669	TS-0514
36	10236-5DX3XX	10136-6000EC	10136-3000XX	-



.050" MDR Vertical Compliant Pin Receptacle		Mating Wiremount Plug		
		Shielded	Shielded Solder Cup	Non-Shielded
Pos	102 Series	101 Series	101 Series	101 Series
	TS-0961	TS-0423	TS-0669	TS-0514
14	10214-R2XXXS	10114-6000EC	10114-3000XX	-
20	10220-R2XXXS	10120-6000EC	10120-3000XX	-
26	10226-R2XXXS	10126-6000EC	10126-3000XX	-
36	10236-R2XXXS	10136-6000EC	10136-3000XX	-
40	10240-R2XXXS	10140-6000EC	10140-3000XX	-
50	10250-R2XXXS	10150-6000EC	10150-3000XX	10150-8X00EE
68	10268-R2XXXS	10168-6000EC	-	10168-8X00EE
80	10280-R2XXXS	10180-6000EC	-	-

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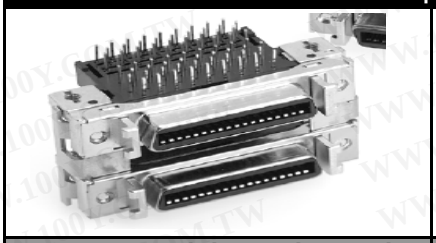
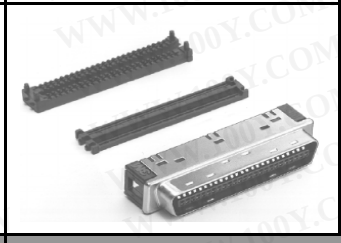
3M™ Board-to-Wire Copper Connectors

.50" x .50" Mating Chart

Note: All connector options and ordering information can be obtained from the technical data sheet (TS-XXXX).



.050" MDR Right Angle Condo Receptacle, Through-Hole		Mating Wiremount Plug		
		Shielded	Shielded Solder Cup	Non-Shielded
	102 Series	101 Series	101 Series	101 Series
Pos	TS-0671	TS-0423	TS-0669	TS-0514
20	10220-M218VE	10120-6000EC	10120-3000XX	-
50	10250-M218VE	10150-6000EC	10150-3000XX	10150-8X00EE
68	10268-M218VE	10168-6000EC	-	10168-8X00EE



.050" MDR Surface Mount Vertical Receptacle		Mating Wiremount Plug		
		Shielded	Shielded Solder Cup	Non-Shielded
	102 Series	101 Series	101 Series	101 Series
Pos	TS-0638	TS-0423	TS-0669	TS-0514
20	10220-22X0XE	10120-6000EC	10120-3000XX	-
26	10226-22X0XE	10126-6000EC	10126-3000XX	-
36	10236-22X0XE	10136-6000EC	10136-3000XX	-

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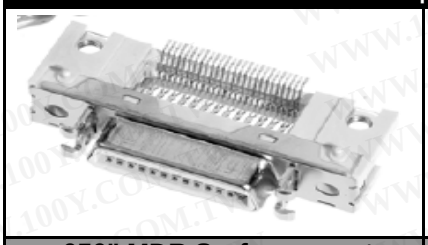
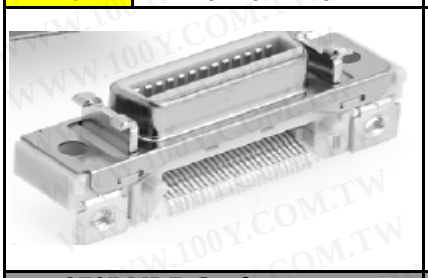
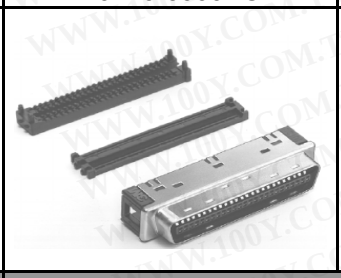
3M™ Board-to-Wire Copper Connectors

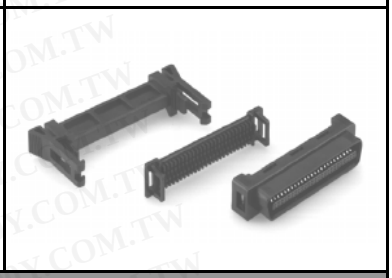
.50" x .50" Mating Chart

Note: All connector options and ordering information can be obtained from the technical data sheet (TS-XXXX).



.050" MDR Surfacemount Vertical Receptacle		Mating Wiremount Plug		
		Shielded	Shielded Solder Cup	Non-Shielded
Pos	102 Series	101 Series	101 Series	101 Series
	TS-0874	TS-0423	TS-0669	TS-0514
26	10226-1A10XE	10126-6000EC	10126-3000XX	-

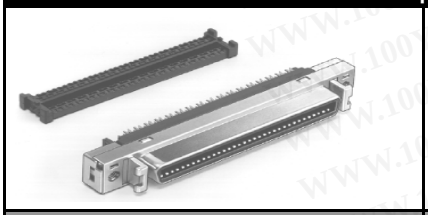


.050" MDR Surfacemount Vertical Receptacle		Mating Wiremount Plug		
		Shielded	Shielded Solder Cup	Non-Shielded
Pos	102 Series	101 Series	101 Series	101 Series
	TS-0755	TS-0423	TS-0669	TS-0514
14	10214-1210XE	10114-6000EC	10114-3000XX	-
20	10220-1210XE	10120-6000EC	10120-3000XX	-
26	10226-1210XE	10126-6000EC	10126-3000XX	-
40	10240-1210XE	10140-6000EC	10140-3000XX	-
50	10250-1210XE	10150-6000EC	10150-3000XX	10150-8X00EE

3M™ MDR Wire-to-Wire Copper Connectors

.50" x .50" Mating Chart

Note: All connector options and ordering information can be obtained from the technical data sheet (TS-XXXX).



.050" MDR Wiremount/Panel-mount Receptacle, Shielded		Mating Wiremount Plug		
		Shielded	Shielded Solder Cup	Non-Shielded
Pos	102 Series	101 Series	101 Series	101 Series
	TS-0425	TS-0423	TS-0669	TS-0514
20	10220-0210EC	10120-6000EC	10120-3000XX	-
26	10226-0210EC	10126-6000EC	10126-3000XX	-
36	10236-0210EC	10136-6000EC	10136-3000XX	-
40	10240-0210EC	10140-6000EC	10140-3000XX	-
50	10250-0210EC	10150-6000EC	10150-3000XX	10150-8X00EE
68	10268-0210EC	10168-6000EC	-	10168-8X00EE
68	10268-0210EC	10168-6000EC	-	10168-8X00EE

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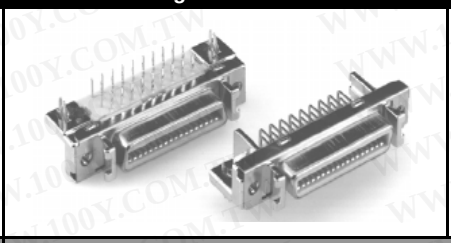
3M™ MDR Board-to-Board Copper Connectors

.50" x .50" Mating Chart

Note: All connector options and ordering information can be obtained from the technical data sheet (TS-XXXX).



Pos	Through-Hole Right Angle Plug		Mating Boardmount Receptacle		
	Normal	Inverse	Right Angle	Right Angle	Right Angle
	101 Series		102 Series	102 Series	102 Series
	TS-0620		TS-0531	TS-0621	TS-0790
20	10120-52X2	10120-72X2	N10220-52XXXX	10220-55X3XX	-
26	10126-52X2	10126-72X2	N10220-52XXXX	10226-55X3XX	-
36	10136-52X2	10136-72X2	N10220-52XXXX	10236-55X3XX	10236-5DX3XX
50	10150-52X2	10150-72X2	N10220-52XXXX	10250-55X3XX	-

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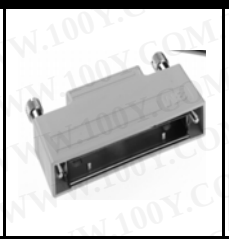
3M™ Round Cable Junction Shells

.50" x .50" Mating Chart

Note: All connector options and ordering information can be obtained from the technical data sheet (TS-XXXX).



.050" MDR Shielded Wiremount Plug		Mating Round Cable Junction Shell				
		Plastic Shielded	Plastic Shielded	Plastic Shielded	Metal Shell 60° Exit	Metal Shell
Pos	101 Series	103 Series				
	TS-0423	TS-0571	TS-0534	TS-0535	TS-0394	TS-0341
14	10114-6000EC	10314-3210-00X	-	-	10314-A500-00	10314-A200-00
20	10120-6000EC	10320-3210-00X	-	-	-	10320-A200-00
26	10126-6000EC	10326-3210-00X	-	10326-32J0-00X	10326-A500-00	10326-A200-00
36	10136-6000EC	10336-3210-00X	-	-	10336-A500-00	10336-A200-00
40	10140-6000EC	10340-3210-00X	-	-	10340-A500-00	10340-A200-00
50	10150-6000EC	10350-3210-00X	10350-3280-000-X	10326-32J0-00X	10350-A500-00	10350-A200-00
68	10168-6000EC	10368-3210-00X	10368-3280-000-X	10326-32J0-00X	10368-A500-00	10368-A200-00
80	10180-6000EC	10380-3210-00X	10380-3280-000-X	-	10380-A500-00	10380-A200-00
100	101A0-6000EC	103AO-3210-00X	-	-	-	103A0-A200-00

3M™ Round Cable Non-Shielded Junction Shells

.50" x .50" Mating Chart

Note: All connector options and ordering information can be obtained from the technical data sheet (TS-XXXX).

This junction shell is the only shell designed to be used with the **3M™ Wiremount Plug 101XX-3000EC Solder Cup**. For further information or questions concerning this application, contact 3M Technical Service.

.050" MDR Shielded Wiremount Plug		Mating Round Cable Junction Shell Non-Shielded Plastic Junction Shell	
Pos	TS-0669	TS-0670	-
14	-	-	-
20	10120-3000EC	10320-52F0-008	-
26	10126-3000EC	10326-52F0-008	-
36	10136-3000EC	10336-52F0-008	-
40	10140-3000EC	-	-
50	10150-3000EC	10350-52F0-008	-

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3M™ Flat Cable Junction Shells

.50" x .50" Mating Chart

Note: All connector options and ordering information can be obtained from the technical data sheet (TS-XXXX).

.050" MDR Shielded Wiremount Plug		Mating Flat Cable Junction Shell	
		Metal Junction Shell	Metal Junction Shell
Pos	101 Series	103 Series	103 Series
	TS-0423	TS-0655	TS-0666
14	10114-6000EC	-	-
20	10120-6000EC	10320-1230-00	-
26	10126-6000EC	10326-1230-00	-
36	10136-6000EC	10336-1230-00	-
40	10140-6000EC	10340-1230-00	-
50	10150-6000EC	-	
68	10168-6000EC	-	10368-12R1-00
80	10180-6000EC	-	10380-12R1-00
100	101A0-6000EC	-	10380-12R1-00

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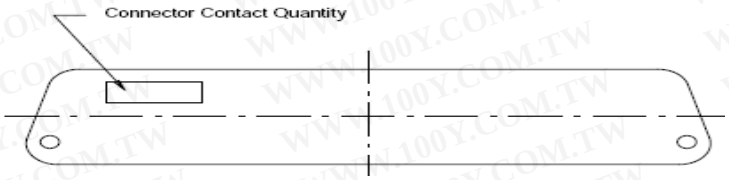
3M™ Dust Cover for Panel Mount Receptacle

.50" x .50" Mating Chart

Note: All connector options and ordering information can be obtained from the technical data sheet (TS-XXXX).



MDR Dust Cover for Panel Mount Receptacle		Panel Mount MDR Connector
Pos	TS-0399	
14	3412-10214	10214-XXXXX
20	3412-10220	10220-XXXXX
26	3412-10226	10226-XXXXX
36	3412-10236	10236-XXXXX
40	3412-10240	10240-XXXXX
50	3412-10250	10250-XXXXX
68	3412-10268	10268-XXXXX

This dust cover was designed to be used with all 3M™ 102XX Panel Mount receptacles.

For further information or questions concerning this application, contact 3M Technical Service.

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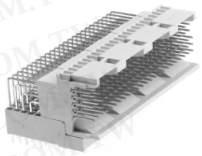
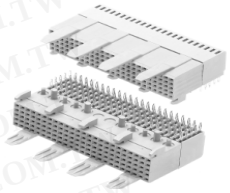
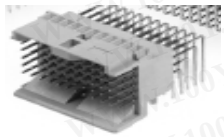
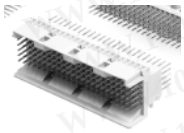
3M™ MetPak™ Board-to-Board Copper Connectors

2 mm 5-Row Solder or Press-Fit Tails

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

MP2 Series				
	TS-1122	TS-1124	TS-1117	
	Inverse Header		Mating Right Angle Socket	
Positions	Right Angle Solder Tails	Right Angle Solder Tails	Capped Solder Tails	Press-Fit Tails
30	MP2-P030-5XM1-XXXX	---	MP2-S030G-5XXX-C-XXXX	MP2-S030G-5XXX-XXXX
60	MP2-P060-5XM1-XXXX	---	MP2-S060G-5XXX-C-XXXX	MP2-S060G-5XXX-XXXX
90	MP2-P090-5XM1-XXXX	---	MP2-S090G-5XXX-C-XXXX	MP2-S090G-5XXX-XXXX
120	MP2-P120-5XM1-XXXX	---	MP2-S120G-5XXX-C-XXXX	MP2-S120G-5XXX-XXXX
150	MP2-P150-5XM1-XXXX	---	MP2-S150G-5XXX-C-XXXX	MP2-S150G-5XXX-XXXX
180	MP2-P180-5XM1-XXXX	---	MP2-S180G-5XXX-C-XXXX	MP2-S180G-5XXX-XXXX
210	MP2-P210-5XM1-XXXX	MP2-P210E-51M1-XXXX	MP2-S210G-5XXX-C-XXXX	MP2-S210G-5XXX-XXXX
240	MP2-P240-5XM1-XXXX	MP2-P240E-51M1-XXXX	MP2-S240G-5XXX-C-XXXX	MP2-S240G-5XXX-XXXX
270	MP2-P270-5XM1-XXXX	---	---	---
300	MP2-P300-5XM1-XXXX	---	---	---
420	MP2-P420-5XM1-XXXX	---	---	---

MP2 Series				
	TS-1122	TS-1123	TS-1121	
	Inverse Header		Mating Vertical Inverse Socket	
Positions	Right Angle Solder Tails	Vertical Solder/Press-Fit Tail	Solder Tails	Press-Fit Tails
30	MP2-P030-5XM1-XXXX	MP2-PS030-51X1-XXXX	MP2-R030-5XSX-XXXX	MP2-R030-5XPX-XXXX
60	MP2-P060-5XM1-XXXX	MP2-PS060-51X1-XXXX	MP2-R060-5XSX-XXXX	MP2-R060-5XPX-XXXX
90	MP2-P090-5XM1-XXXX	MP2-PS090-51X1-XXXX	MP2-R090-5XSX-XXXX	MP2-R090-5XPX-XXXX
120	MP2-P1200-5XM1-XXXX	MP2-PS120-51X1-XXXX	MP2-R120-5XSX-XXXX	MP2-R120-5XPX-XXXX
150	MP2-P150-5XM1-XXXX	MP2-PS150-51X1-XXXX	MP2-R150-5XSX-XXXX	MP2-R150-5XPX-XXXX
180	MP2-P180-5XM1-XXXX	MP2-PS180-51X1-XXXX	MP2-R180-5XSX-XXXX	MP2-R180-5XPX-XXXX
210	MP2-P210-5XM1-XXXX	MP2-PS210-51X1-XXXX	MP2-R210-5XSX-XXXX	MP2-R210-5XPX-XXXX
240	MP2-P240-5XM1-XXXX	MP2-PS240-51X1-XXXX	MP2-R240-5XSX-XXXX	MP2-R240-5XPX-XXXX
270	MP2-P270-5XM1-XXXX	MP2-PS270-51X1-XXXX	MP2-R270-5XSX-XXXX	MP2-R270-5XPX-XXXX
300	MP2-P300-5XM1-XXXX	MP2-PS300-51X1-XXXX	MP2-R300-5XSX-XXXX	MP2-R300-5XPX-XXXX
420	MP2-P420-5XM1-XXXX	---	---	---

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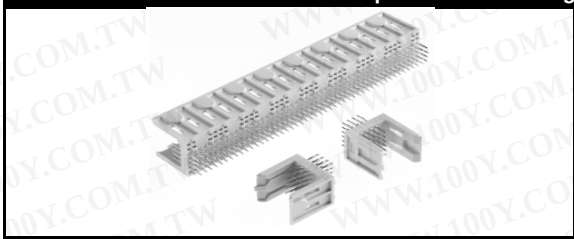
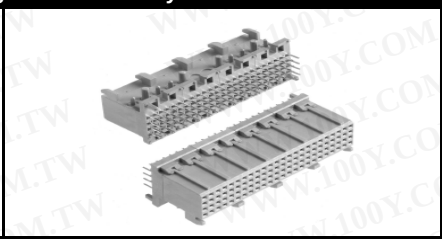
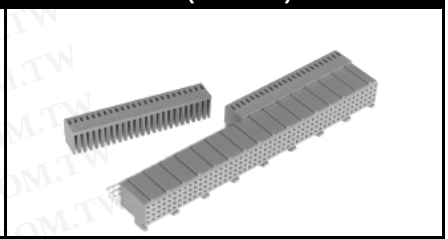
3M™ MetPak™ Board-to-Board Copper Connectors

2 mm 4/5 - Row Solder or Press-Fit Tails

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).







MP2 Series

Positions	TS-1120 Vertical Header: 4-Row Vertical Header with Shoulder Pins for Compliant Pin Assembly	TS-1120 Vertical Header: PCB Mounting Style	TS-1118 Mating Vertical Socket: 4-Row Vertical Stacking Socket	TS-1118 Mating Vertical Socket: PCB Mounting Style	TS-1115 Mating Right Angle Socket: 4-Row Right Angle Socket with Tail Cover	TS-1115 Mating Right Angle Socket: PCB Mounting Style
24	MP2-H024-4XSX-S-XXXX MP2-H024-4XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS024-41SX-XXXX MP2-SS024-41PX-XXXX	Solder Tail Press-Fit	MP2-S024-41XX-C-XXXX MP2-S024-41XX-XXXX	Sldr/Tail w/cap Press-Fit
48	MP2-H048-4XSX-S-XXXX MP2-H048-4XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS048-41SX-XXXX MP2-SS048-41PX-XXXX	Solder Tail Press-Fit	MP2-S048-41XX-C-XXXX MP2-S048-41XX-XXXX	Sldr/Tail w/cap Press-Fit
72	MP2-H072-4XSX-S-XXXX MP2-H072-4XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS072-41SX-XXXX MP2-SS072-41PX-XXXX	Solder Tail Press-Fit	MP2-S072-41XX-C-XXXX MP2-S072-41XX-XXXX	Sldr/Tail w/cap Press-Fit
96	MP2-H096-4XSX-S-XXXX MP2-H096-4XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS096-41SX-XXXX MP2-SS096-41PX-XXXX	Solder Tail Press-Fit	MP2-S096-41XX-C-XXXX MP2-S096-41XX-XXXX	Sldr/Tail w/cap Press-Fit
120	MP2-H120-4XSX-S-XXXX MP2-H120-4XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS120-41SX-XXXX MP2-SS120-41PX-XXXX	Solder Tail Press-Fit	MP2-S120-41XX-C-XXXX MP2-S120-41XX-XXXX	Sldr/Tail w/cap Press-Fit
144	MP2-H144-4XSX-S-XXXX MP2-H144-4XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS144-41SX-XXXX MP2-SS144-41PX-XXXX	Solder Tail Press-Fit	MP2-S144-41XX-C-XXXX MP2-S144-41XX-XXXX	Sldr/Tail w/cap Press-Fit
168	MP2-H168-4XSX-S-XXXX MP2-H168-4XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS168-41SX-XXXX MP2-SS168-41PX-XXXX	Solder Tail Press-Fit	MP2-S168-41XX-C-XXXX MP2-S168-41XX-XXXX	Sldr/Tail w/cap Press-Fit
192	MP2-H192-4XSX-S-XXXX MP2-H192-4XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS192-41SX-XXXX MP2-SS192-41PX-XXXX	Solder Tail Press-Fit	MP2-S192-41XX-C-XXXX MP2-S192-41XX-XXXX	Sldr/Tail w/cap Press-Fit

Positions	Vertical Header: 5-Row Vertical Header with Shoulder Pins for Compliant Pin Assembly	Vertical Header: PCB Mounting Style	Mating Vertical Socket: 5-Row Vertical Stacking Socket	Mating Vertical Socket: PCB Mounting Style	Mating Right Angle Socket: 5-Row Right Angle Socket with Tail Cover	Mating Right Angle Socket: PCB Mounting Style
30	MP2-H030-5XSX-S-XXXX MP2-H030-5XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS030-51SX-XXXX MP2-SS030-51PX-XXXX	Solder Tail Press-Fit	MP2-S030-51XX-C-XXXX MP2-S030-51XX-XXXX	Sldr/Tail w/cap Press-Fit
60	MP2-H060-5XSX-S-XXXX MP2-H060-5XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS060-51SX-XXXX MP2-SS060-51PX-XXXX	Solder Tail Press-Fit	MP2-S060-51XX-C-XXXX MP2-S060-51XX-XXXX	Sldr/Tail w/cap Press-Fit
90	MP2-H090-5XSX-S-XXXX MP2-H090-5XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS090-51SX-XXXX MP2-SS090-51PX-XXXX	Solder Tail Press-Fit	MP2-S090-51XX-C-XXXX MP2-S090-51XX-XXXX	Sldr/Tail w/cap Press-Fit
120	MP2-H120-5XSX-S-XXXX MP2-H120-5XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS120-51SX-XXXX MP2-SS120-51PX-XXXX	Solder Tail Press-Fit	MP2-S120-51XX-C-XXXX MP2-S120-51XX-XXXX	Sldr/Tail w/cap Press-Fit
150	MP2-H150-5XSX-S-XXXX MP2-H150-5XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS150-51SX-XXXX MP2-SS150-51PX-XXXX	Solder Tail Press-Fit	MP2-S150-51XX-C-XXXX MP2-S150-51XX-XXXX	Sldr/Tail w/cap Press-Fit
180	MP2-H180-5XSX-S-XXXX MP2-H180-5XPX-S-XXXX	Solder Tail Press-Fit	MP2-SS180-51SX-XXXX MP2-SS180-51PX-XXXX	Solder Tail Press-Fit	MP2-S180-51XX-C-XXXX MP2-S180-51XX-XXXX	Sldr/Tail w/cap Press-Fit
210	MP2-H210-5XSX-SXXXX MP2-H210-5XPX-SXXXX	Solder Tail Press-Fit	MP2-SS210-51SX-XXXX MP2-SS210-51PX-XXXX	Solder Tail Press-Fit	MP2-S210-51XX-C-XXXX MP2-S210-51XX-XXXX	Sldr/Tail w/cap Press-Fit
240	MP2-H240-5XSX-SXXXX MP2-H240-5XPX-SXXXX	Solder Tail Press-Fit	MP2-SS240-51SX-XXXX MP2-SS240-51PX-XXXX	Solder Tail Press-Fit	MP2-S240-51XX-C-XXXX MP2-S240-51XX-XXXX	Sldr/Tail w/cap Press-Fit

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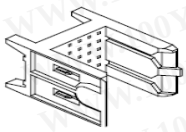
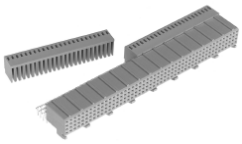
3M™ MetPak™ Shroud Board-to-Board Copper Connectors

2 mm 4/5- Row Solder or Press-Fit Tails

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).





MP2 Series

TS-1130				TS-1118		TS-1115
4-Row Vertical Shroud		**Stand off Height**	**Metpak 2-FB Header (Pin Field)**	**Mating Vertical Socket**		**Right Angle Socket**
Positions	**Shroud can be used with rear mounted solder tail header.**	**1 =** 3.50 mm **2 =** 4.40 mm **3 =** 6.90 mm	**Rear Mounted Mating Header**	**4-Row Vertical Stacking Socket**	**PCB Mounting Style**	**4-Row Right Angle Socket with Tail Cover**
24	MP2-HS 024 - 4 **X**		MP2-H024-4XP5-XXXX MP2-H024-4XP7-XXXX	MP2-SS024-41SX-XXXX MP2-SS024-41PX-XXXX	Solder Tail Press-Fit	MP2-S024-41XX-C-XXXX MP2-S024-41XX-XXXX
48	MP2-HS 048 - 4 **X**		MP2-H024-4XP5-XXXX MP2-H024-4XP7-XXXX	MP2-SS048-41SX-XXXX MP2-SS048-41PX-XXXX	Solder Tail Press-Fit	MP2-S048-41XX-C-XXXX MP2-S048-41XX-XXXX
72	MP2-HS 072 - 4 **X**		MP2-H024-4XP5-XXXX MP2-H024-4XP7-XXXX	MP2-SS072-41SX-XXXX MP2-SS072-41PX-XXXX	Solder Tail Press-Fit	MP2-S072-41XX-C-XXXX MP2-S072-41XX-XXXX
96	MP2-HS 096 - 4 **X**		MP2-H024-4XP5-XXXX MP2-H024-4XP7-XXXX	MP2-SS096-41SX-XXXX MP2-SS096-41PX-XXXX	Solder Tail Press-Fit	MP2-S096-41XX-C-XXXX MP2-S096-41XX-XXXX
120	MP2-HS 120 - 4 **X**		MP2-H024-4XP5-XXXX MP2-H024-4XP7-XXXX	MP2-SS120-41SX-XXXX MP2-SS120-41PX-XXXX	Solder Tail Press-Fit	MP2-S120-41XX-C-XXXX MP2-S120-41XX-XXXX
144	MP2-HS 144 - 4 **X**		MP2-H024-4XP5-XXXX MP2-H024-4XP7-XXXX	MP2-SS144-41SX-XXXX MP2-SS144-41PX-XXXX	Solder Tail Press-Fit	MP2-S144-41XX-C-XXXX MP2-S144-41XX-XXXX
168	MP2-HS 168 - 4 **X**		MP2-H024-4XP5-XXXX MP2-H024-4XP7-XXXX	MP2-SS168-41SX-XXXX MP2-SS168-41PX-XXXX	Solder Tail Press-Fit	MP2-S168-41XX-C-XXXX MP2-S168-41XX-XXXX
192	MP2-HS 192 - 4 **X**		MP2-H024-4XP5-XXXX MP2-H024-4XP7-XXXX	MP2-SS192-41SX-XXXX MP2-SS192-41PX-XXXX	Solder Tail Press-Fit	MP2-S192-41XX-C-XXXX MP2-S192-41XX-XXXX
5-Row Vertical Shroud		**Stand off Height**	**Metpak 2-FB Header (Pin Field)**	**Mating Vertical Socket**		
Positions	**Shroud can be used with rear mounted solder tail header.**	**1 =** 3.50 mm **2 =** 4.40 mm **3 =** 6.90 mm	**Rear Mounted Mating (Pin Field) Header**	**5-Row Vertical Stacking Socket**	**PCB Mounting Style**	**5-Row Right Angle Socket with Tail Cover**
30	MP2-HS 030 - 5 **X**		MP2-H030-5XP5-XXXX MP2-H030-5XP7-XXXX	MP2-SS030-51SX-XXXX MP2-SS030-51PX-XXXX	Solder Tail Press-Fit	MP2-S030-51XX-C-XXXX MP2-S030-51XX-XXXX
60	MP2-HS 060 - 5 **X**		MP2-H 060-5XP5-XXXX MP2-H 060-5XP7-XXXX	MP2-SS060-51SX-XXXX MP2-SS060-51PX-XXXX	Solder Tail Press-Fit	MP2-S060-51XX-C-XXXX MP2-S060-51XX-XXXX
90	MP2-HS 090 - 5 **X**		MP2-H090-5XP5-XXXX MP2-H090-5XP7-XXXX	MP2-SS090-51SX-XXXX MP2-SS090-51PX-XXXX	Solder Tail Press-Fit	MP2-S090-51XX-C-XXXX MP2-S090-51XX-XXXX
120	MP2-HS 120 - 5 **X**		MP2-H120-5XP5-XXXX MP2-H120-5XP7-XXXX	MP2-SS120-51SX-XXXX MP2-SS120-51PX-XXXX	Solder Tail Press-Fit	MP2-S120-51XX-C-XXXX MP2-S120-51XX-XXXX
150	MP2-HS 150 - 5 **X**		MP2-H150-5XP5-XXXX MP2-H150-5XP7-XXXX	MP2-SS150-51SX-XXXX MP2-SS150-51PX-XXXX	Solder Tail Press-Fit	MP2-S150-51XX-C-XXXX MP2-S150-51XX-XXXX
180	MP2-HS180 - 5 **X**		MP2-H180-5XP5-XXXX MP2-H180-5XP7-XXXX	MP2-SS180-51SX-XXXX MP2-SS180-51PX-XXXX	Solder Tail Press-Fit	MP2-S180-51XX-C-XXXX MP2-S180-51XX-XXXX
210	MP2-HS 210- 5 **X**		MP2-H210-5XP5-XXXX MP2-H210-5XP7-XXXX	MP2-SS210-51SX-XXXX MP2-SS210-51PX-XXXX	Solder Tail Press-Fit	MP2-S210-51XX-C-XXXX MP2-S210-51XX-XXXX
240	MP2-HS 240 - 5 **X**		MP2-H240-5XP5-XXXX MP2-H240-5XP7-XXXX	MP2-SS240-51SX-XXXX MP2-SS240-51PX-XXXX	Solder Tail Press-Fit	MP2-S240-51XX-C-XXXX MP2-S240-51XX-XXXX

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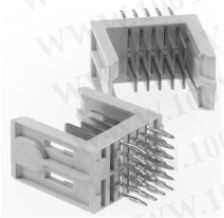
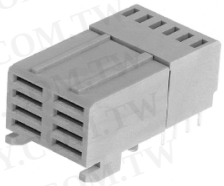
3M™ MetPak™ Power Board-to-Board Copper Connectors

2 mm 4/5- Socket and Header

Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).





MP2 Series		
	TS-1126	**TS-1125**
Pos	**4-Row Vertical Header with Press-Fit Tail**	**Mating 4-Row Right Angle Socket Solder or Press-Fit Tail**
8	MP2 - HP08 - 4XP1 - XXX	MP2 - SP08 - 41PX - XXXX Press-Fit Tail MP2 - SP08 - 41PX - XXXX Soder Tail (Press Peg) MP2 - SP08 - 41PX - XXXX Solder Tail (Heat Stake)
Pos	**5-Row Vertical Press-Fit Tail**	**Mating 5-Row Right Angle Socket Solder or Press-Fit Tail**
10	MP2 - HP10 - 5XP1 - XXX	MP2 - SP10 - 51PX - XXXX Press-Fit Tail MP2 - SP10 - 51PX - XXXX Soder Tail (Press Peg) MP2 - SP10 - 51PX - XXXX Solder Tail (Heat Stake)

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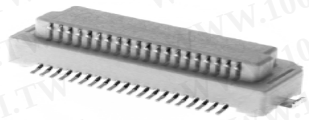
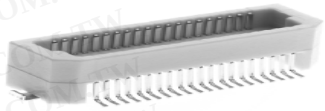
3M™ Pak 5 Board-to-Board Copper Connectors

.5 mm Mating Chart

Note: All connector options and ordering information may be obtain from the technical data sheet (TS-XXXX).





PK5 Series			
TS-1153			TS-1149
Plug Connector		Mated Height	Socket Connector
Pos	Product Number		Product Number
40, 50, 60, 80, 100, 120, 140, 160	PK5-XXXP-X-X-X-**2**-GGF	4 mm	PK5-XXXS-X-X-X-**2**-GGF
	PK5-XXXP-X-X-X-**2**-GGF	5 mm	PK5-XXXS-X-X-X-**3**-GGF
	PK5-XXXP-X-X-X-**2**-GGF	6 mm	PK5-XXXS-X-X-X-**4**-GGF
	PK5-XXXP-X-X-X-**4**-GGF	6 mm	PK5-XXXS-X-X-X-**2**-GGF
	PK5-XXXP-X-X-X-**4**-GGF	7 mm	PK5-XXXS-X-X-X-**3**-GGF
	PK5-XXXP-X-X-X-**4**-GGF	8 mm	PK5-XXXS-X-X-X-**4**-GGF

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3M™ Board Stacking System, P05N

.5 mm Mating Chart

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX)			
P05N Series			
TS-1093			TS-1093
Surfacemount Vertical Plug Connector		Mated Height	Surfacemount Vertical Socket Connector
Pos	Product Number		Product Number
20, 30, 40, 50, 60, 80, 100	P05N-XXXPT-A-G	3 mm	P05N-XXXST-A-G
	P05N Series		
	TS-1092		TS-1092
	Surfacemount Vertical Plug Connector	Mated Height	Surfacemount Vertical Socket Connector
	Product Number		Product Number
	P05N-XXXPT-B-G	4 mm	P05N-XXXST-B-G
	P05N-XXXPT-C-G	5 mm	P05N-XXXST-B-G
	P05N-XXXPT-D-G	6 mm	P05N-XXXST-B-G

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3M™ Pak 8 Board-to-Board Copper Connectors

.8 mm Mating Chart

Note: All connector options and ordering information may be obtain from the technical data sheet (TS-XXXX)

P08 Series			
	TS-1096		TS-1150
Pos	Vertical Plug Connector	Mated Height	Socket Connector
	Product Number		Product Number
20, 30, 40, 50, 80, 100	P08-XXXPLXX-A-TG	3 mm	P08-XXXSLXX-A-G
	P08-XXXPLXX-B-TG	4 mm	P08-XXXSLXX-A-G
	P08-XXXPLXX-C-TG	5 mm	P08-XXXSLXX-A-G
	P08-XXXPLXX-A-TG	6 mm	P08-XXXSLXX-B-TG
	P08-XXXPLXX-B-TG	7 mm	P08-XXXSLXX-B-TG
	P08-XXXPLXX-C-TG	8 mm	P08-XXXSLXX-B-TG

3M™ Pak 8 Board-to-Board Hermaphroditic Connectors

.8 mm Mating Chart

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

P08 Series			
	TS-2096		TS-2096
Pos	Hermaphroditic Connector	Mated Height	Hermaphroditic Connector
	Product Number		Product Number
30	P08-030-HLXX-E-G	11.5 mm	P08-030-HLXX-E-G
40	P08-040-HLXX-E-G	11.5 mm	P08-040-HLXX-E-G
50	P08-050-HLXX-E-G	11.5 mm	P08-050-HLXX-E-G
80	P08-080-HLXX-E-G	11.5 mm	P08-080-HLXX-E-G
100	P08-100-HLXX-E-G	11.5 mm	P08-100-HLXX-E-G

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3M™ Pak 8 Board-to-Board Copper Connectors

.8 mm Mating Chart

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

2A Series			
Pos	TS-0889		TS-0888
	Surfacemount Plug	Mated Height	Surfacemount Socket
200	2B200-6200-8NX S	5 mm	2A200-6100-8NX S

3M™ Pak 10 Board-to-Board Copper Connectors

1 mm Mating Chart

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

PK10M Series			PK10M Series
TS-1159	TS-1151	Plug Standoff Height Code: R= w/o Standoff 1 = 1 mm 2 = 2 mm 3 = 3 mm 4 = 4 mm	TS-1152
Right Angle Boardmount Plug with Power Contacts	Right Angle Surfacemount Plug with Power Ground Option		Vertical Surfacemount Socket with Power Ground Option
PK10M-040PX-SMX-XX	PK10M-040PX-THX-XX	**Positions**	PK10M-040SX-SMT-XX
PK10M-050PX-SMX-XX	PK10M-050PX-THX-XX	40, 50, 60, 80	PK10M-050SX-SMT-XX
PK10M-060PX-SMX-XX	PK10M-060PX-THX-XX		PK10M-060SX-SMT-XX
PK10M-080PX-SMX-XX	PK10M-080PX-THX-XX		PK10M-080SX-SMT-XX

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3M™ Pak 10 Board-to-Board Stacking Connectors

1 mm Mating Chart

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

PK10 Series				
	TS-1078		TS-1077	
	Surfacemount Plug Connector		Surfacemount Socket Connector	
Pos	S = Straight (Vertical)	R = Right Angle	S = Straight (Vertical)	R = Right Angle
30	PK10-030P-S-XX	PK10-030P-R-XX	PK10-030S-S-XX	PK10-030S-R-XX
50	PK10-050P-S-XX	PK10-050P-R-XX	PK10-050S-S-XX	PK10-050S-R-XX
80	PK10-080P-S-XX	PK10-080P-R-XX	PK10-080S-S-XX	PK10-080S-R-XX
100	PK10-100P-S-XX	PK10-100P-R-XX	PK10-100S-S-XX	PK10-100S-R-XX

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3M™ Board Stacking System, P10

1 mm Mating Chart

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

	TS-1097		TS-1097
	SMT Vertical Plug Connector		SMT Vertical Socket Connector
Pos	Product Number A = 2.0 mm B = 2.5 mm	Mated Height	Product Number
10	P10-010-PLT - A - G	2.0 mm	P10-020SLT - A - G
10	P10-010-PLT - B - G	2.5 mm	
16	P10-016-PLT - A - G	2.0 mm	P10-020SLT - A - G
16	P10-016-PLT - B - G	2.5 mm	
20	P10-020-PLT - A - G	2.0 mm	P10-020SLT - A - G
20	P10-020-PLT -B - G	2.5 mm	
30	P10-030-PLT - A - G	2.0 mm	P10-020SLT - A - G
30	P10-030-PLT - B - G	2.5 mm	

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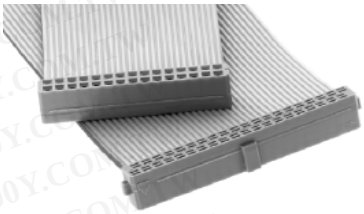
3M™ Pak 20 Boardmount-to-Wiremount Connectors

2 mm Boardmount Latch/Eject Headers and 2 mm Wiremount Sockets

Note: All connector options and ordering information may be obtain from the technical data sheet (TS-XXXX).



Positions	1552 Series TS-2199 2 = Latch used for molded on socket 3 = Latch used with 2-piece socket	1522 Series TS-0523 0 = Preassembled closed cover/even row 1 = Preassembled open cover 2 = Preassembled closed cover/odd row	870 Series & 2M Series TS-0525 and TS-2150 870 Series Socket Dimensions, TS-0525 2M Series Molded Assembly, TS-2150
6	155206-2200-XX 155206-2300-XX	—	2M XX XX - 006 -3625-XXX.X-XX-XX-X
8	155208-2200-XX 155208-2300-XX	—	2M XX XX - 008 -3625-XXX.X-XX-XX-X
10	155210-2200-XX 155210-2300-XX	152210-00XX-XX 152210-01XX-XX 152210-02XX-XX	2M XX XX - 010 -3625-XXX.X-XX-XX-X
12	155212-2200-XX 155212-2300-XX	152210-00XX-XX 152210-01XX-XX 152210-02XX-XX	—
16	155216-2200-XX 155216-2300-XX	—	2M XX XX - 016 -3625-XXX.X-XX-XX-X
20	155220-2200-XX 155220-2300-XX	152210-00XX-XX 152210-01XX-XX 152210-02XX-XX	2M XX XX - 020 -3625-XXX.X-XX-XX-X
22	155222-2200-XX 155222-2300-XX	—	2M XX XX - 022 -3625-XXX.X-XX-XX-X
24	155224-2200-XX 155224-2300-XX	—	2M XX XX - 024 -3625-XXX.X-XX-XX-X
26	155226-2200-XX 155226-2300-XX	152210-00XX-XX 152210-01XX-XX 152210-02XX-XX	2M XX XX - 026 -3625-XXX.X-XX-XX-X
30	155230-2200-XX 155230-2300-XX	—	2M XX XX - 030 -3625-XXX.X-XX-XX-X
40	155240-2200-XX 155240-2300-XX	152210-00XX-XX 152210-01XX-XX 152210-02XX-XX	2M XX XX - 040 -3625-XXX.X-XX-XX-X
44	155244-2200-XX 155244-2300-XX	152210-00XX-XX 152210-01XX-XX 152210-02XX-XX	2M XX XX - 044 -3625-XXX.X-XX-XX-X
50	155250-2200-XX 155250-2300-XX	152210-00XX-XX 152210-01XX-XX 152210-02XX-XX	2M XX XX - 050 -3625-XXX.X-XX-XX-X

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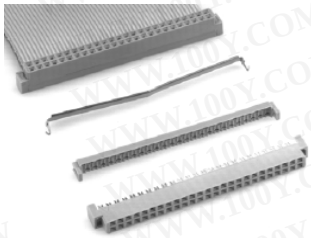
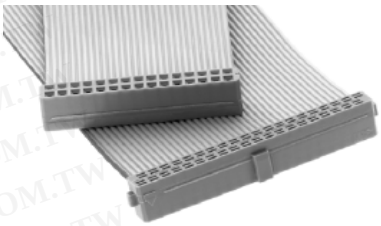
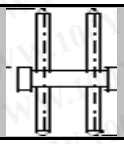
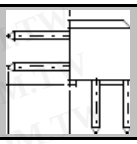
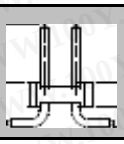
3M™ Pak 20 Boardmount-to-Wiremount Connectors

2 mm Boardmount Pin Strip Headers and 2 mm Wiremount Sockets

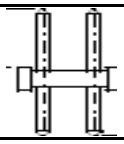
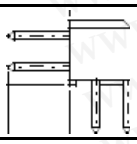
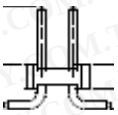
Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

				
1512 Series			**1522 Series**	**870 Series & 2M Series**
TS-0808			**TS-0523**	**TS-0525 and TS-2150**
			**Preassembled 0 = Closed Cover/Even Row 1 = Open Cover 2 = Closed Cover/Odd Row**	**870 Series Socket Dimensions, TS-0525; 2M Series Molded Assembly, TS-2150 for Assembly Options**
1512XX-8322-XX 1512XX-8422-XX	1512XX-7322-XX 1512XX-7422-XX	1512XX-2320-XX-XX 1512XX-2420-XX-XX	152210-00XX-XX 152210-01XX-XX 152210-02XX-XX	2M XX XX - XXX -3625-XXX.X-XX-XX-X
Positions	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60		10, 12, 20, 26, 40, 44, 50	6, 8, 10, 16, 20, 22, 24, 26, 30, 40, 44, 50

3M™ Pak 20 Boardmount-to-Wiremount Connectors

2 mm Boardmount Pin Strip Headers and 2 mm Wiremount Sockets

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

1512 Series			**1532 Series**	**1502 Series**
TS-0808			**TS-0521**	**TS-0519**
			**Through-Board Surfacemount Socket 0 = without Location 2 = with Location Post**	**Surfacemount Version Straight/Vertical Version Right Angle Version**
1512XX-8322-XX 1512XX-8422-XX	1512XX-7322-XX 1512XX-7422-XX	1512XX-2320-XX-XX 1512XX-2420-XX-XX	1532XX-2000-XX-XX 1532XX-2200-XX-XX	1502XX-20X0-XX-XX = Surfacemount 1502XX-600X-XX = Straight/Vertical 1502XX-5XX2-XX = Right Angle
Positions	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60		4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 48, 50, 52, 54, 56, 58, 60	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 48, 50, 52, 54, 56, 58, 60

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3M™ Shunt-to-Boardmount Connectors

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

957631 Series

TS-0777

The 3M™ Pak 20 957631-30 Shunt is recommended for use with all 3M™ Shrouded and Pin Strip Headers.

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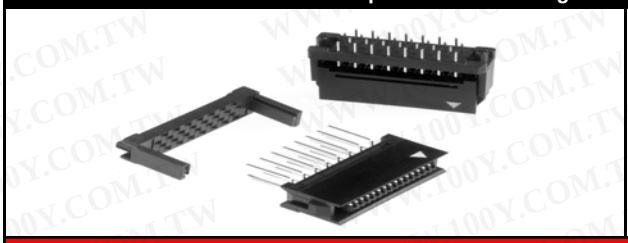
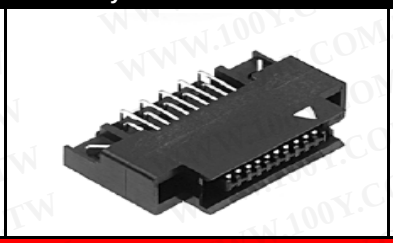
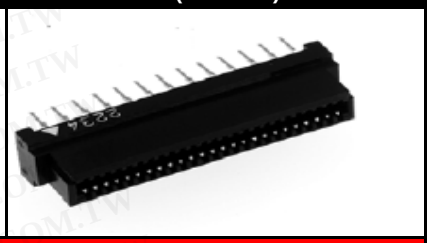
3M™ Pak 50 Board-to-Board Stacking Connectors

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

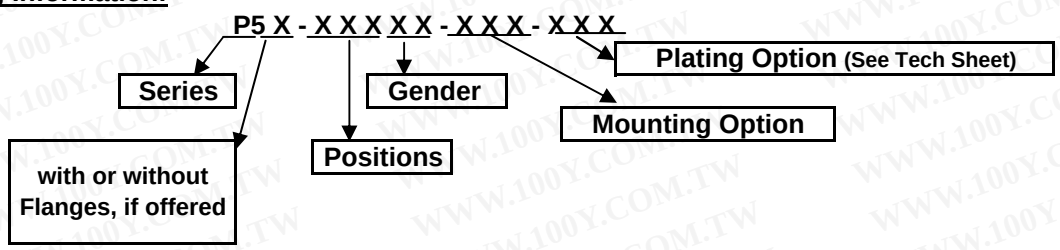






P50 Series				
TS-2048			TS-2047	TS-2047
Vertical Stacking Plug			Mating Socket Connector Vertical and Right Angle Option	
			Through-Hole with Flanges	Through-Hole without Flanges
Through-Hole with Flange	Through-Hole without Flange	Stacking Heights	S1=Straight, w/o Retention Clips SR1=Right Angle w/o Retention Clips R1=Straight with Retention Clips RR1=Right Angle with Retention Clips	S1=Straight, w/o Retention Clips SR1=Right Angle w/o Retention Clips
P50-**XXX**P-S20-XXX	P51-**XXX**P-S20-XXX	20 mm (0.79")	P50-**XXX**S-S1-XXX P50-**XXX**S-SR1-XXX P50-**XXX**S-R1-XXX P50-**XXX**S-RR1-XXX	P51-**XXX**S-S1-XXX P51-**XXX**S-SR1-XXX - -
P50-**XXX**P-S24-XXX	P51-**XXX**P-S24-XXX	24 mm (0.95")		
P50-**XXX**P-S30-XXX	P51-**XXX**P-S30-XXX	30 mm (1.18")		
Positions: 20, 30, 32, 34, 40, 50, 60, 80, 100			**Positions:** 20, 30, 32, 34, 40, 50, 60, 80,100	

Product Ordering Information:



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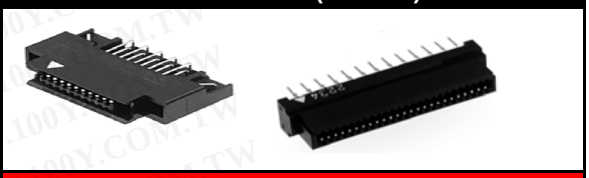
3M™ Pak 50 Board-to-Board Connectors

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

				
P50 Series	**P50 Series**	**P50E Series**	**P50 Series**	
TS-2046	**TS-1162**	**TS-1144**	**TS-2047**	
Vertical and Right Angle Boardmount Plug			**Mating Boardmount Socket**	
S1 = Straight, without Retention Clip **R1** = Straight, with Retention Clip		**SR1** = Right Angle, without Retention Clip **RR1** = Right Angle, with Retention Clip		
w / Flanges = P50 w/o Flanges = P51	**with Flanges**	**with Flanges**	**with Flanges**	**without Flanges**
(each version mates to all socket options)			**(each version mates to all plug options)**	
P5X-**XXX**P-S1-XXX P5X-**XXX**P-SR1-XXX P5X-**XXX**P-R1-XXX P5X-**XXX**P-RR1-XXX	P50-**XXX**P1-S1-XXX P50-**XXX**P1-SR1-XXX - P50-**XXX**P1-RR1-XXX	P50E-**XXX**P1-S1-XXX P50E-**XXX**P1-SR1-XXX - P50E-**XXX**P1-RR1-XXX	P50-**XXX**S-S1-XXX P50-**XXX**S-SR1-XXX P50-**XXX**S-R1-XXX P50-**XXX**S-RR1-XXX	P51-**XXX**S-S1-XXX P51-**XXX**S-SR1-XXX - -
Positions 20, 26, 30, 32, 34, 40, 50, 60, 80, 100	20, 26, 30, 32, 34, 40, 50, 60, 68	20, 26, 30, 32, 34, 40, 50, 60, 80, 100	20, 26, 30, 32, 34, 40, 50, 60, 68, 80,100	20, 26, 30, 32, 34, 40, 50, 60, 68, 80,100

3M™ Pak 50 Board-to-Board Connectors

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

P50 Series			
TS-2051		**TS-2052**	
Power Ground Pin		**Power Ground Pin**	
Boardmount Plug		**Mating Boardmount Socket**	
Straight	**Right Angle**	**Straight**	**Right Angle**
P50-**XXX**PG-S1-XXX	P50-**XXX**PG-SR1-XXX	P50-**XXX**SG-S1-XXX	P50-**XXX**SG-SR1-XXX
Positions: 20, 30, 32, 34, 40, 50, 60, 80, 100		**Positions:** 20, 30, 32, 34, 40, 50, 60, 80, 100	

Product Ordering Information:

P 50 - X X X X X - X X X - X X X

- **P 50** → **Series**
- **X X X X X** → **Positions**
- **X X X** → **Gender**
- **X X X** → **Mounting Option**
- **X X X** → **Plating Option (See Tech Sheet)**

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3M™ Pak 50 Board-to-Board Maxi-Mate Connectors

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

Product options for both the plug and mating socket including body options and retention devices.

P50 Series

TS-2049	TS-2050	
Maxi-Mate Plug Vertical and Right Angle	**Mating Maxi-Mate Socket** Vertical and Right Angle	
(each version mates to all four versions of the socket)	(each version mates to all four versions of the plug)	**Product Description**
P50-XXXP-S1-XXX	P50-XXXS-S1-XXX	Straight, with Flanges, without Retention Clip
P50-XXXP-SR1-XXX	P50-XXXS-SR1-XXX	Right Angle, with Flanges, without Retention Clip
P50-XXXP-R1-XXX	P50-XXXS-R1-XXX	Straight, without Flanges, with Retention Clip
P50-XXXP-RR1-XXX	P50-XXXS-RR1-XXX	Right Angle, without Flanges, with Retention Clip
Positions: 120, 140, 160, 180, 100	**Positions:** 120, 140, 160, 180, 100	

3M™ Pak 50 Low Profile Board-to-Board Surfacemount Connectors

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Four-Row Solder Tail Design

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

P50L Series

Pos	TS-2056 Low Profile, Surfacemount Plug	TS-2055 Low Profile, Surfacemount Socket	Mating Height
20	P50L-020-AS-DA	P50L-020-AS-DA P50L-020-BS-DA	AS = 7 mm BS = 8 mm
30	P50L-030-AS-DA	P50L-030-AS-DA P50L-030-BS-DA	AS = 7 mm BS = 8 mm
40	P50L-040-AS-DA	P50L-040-AS-DA P50L-040-BS-DA	AS = 7 mm BS = 8 mm
50	P50L-050-AS-DA	P50L-050-AS-DA P50L-050-BS-DA	AS = 7 mm BS = 8 mm
60	P50L-060-AS-DA	P50L-060-AS-DA P50L-060-BS-DA	AS = 7 mm BS = 8 mm
80	P50L-080-AS-DA	P50L-080-AS-DA P50L-080-BS-DA	AS = 7 mm BS = 8 mm
100	P50L-100-AS-DA	P50L-100-AS-DA P50L-100-BS-DA	AS = 7 mm BS = 8 mm
120	P50L-120-AS-DA	P50L-120-AS-DA P50L-120-BS-DA	AS = 7 mm BS = 8 mm

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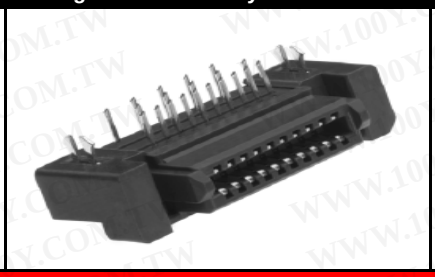
3M™ Pak 50 Low Profile Board-to-Board Connectors

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).



P50L Series				
TS-1145		TS-1146	TS-2054	
Low Profile, R/A Stacking Plug	Stand Off Height	Low Profile, Right Angle Stacking Socket	Low Profile, Vertical Stacking Socket With Flanges	Low Profile, Vertical Stacking Socket Without Flanges
P50L-XXXP-RR2-XXX P50L-XXXP-RR3-XXX P50L-XXXP-RR4-XXX P50L-XXXP-RR5-XXX P50L-XXXP-RR6-XXX P50L-XXXP-RR7-XXX	1.0 mm 1.5 mm 2.0 mm 2.5 mm 3.0 mm 4.0 mm	P50L-XXXS-RR1-XXX	P50L-XXXS-A-XXX P50L-XXXS-B-XXX P50L-XXXS-D-XXX	P51L-XXXS-A-XXX P51L-XXXS-B-XXX P51L-XXXS-D-XXX
Positions: 20, 30, 40, 50 60, 80, 100		**Positions:** 20, 30, 40, 50 60, 80, 100	**Positions:** 20, 30, 40, 50 60, 80, 100	

Product Ordering Information:

P 5 X L - X X X X X - X X X - X X X

- **Series**
- **with or without +A185 Flanges, if offered**
- **Positions**
- **Gender**
- **Mounting Option**
- **Plating Option (See Tech Sheet)**

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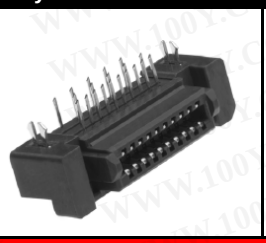
3M™ Pak 50 Low Profile Board-to-Board Connectors

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).



P50L Series					
TS-1161	**TS-2053**		**TS-1146**	**TS-2054**	
Right Angle Stacking Plug w/Retention Clips	Vertical Stacking Plug w/Retention Clips		Low Profile, Right Angle Stacking Socket	Low Profile, Vertical Stacking Socket	
	With Flanges	Without Flanges		With Flanges	Without Flanges
P50L-XXXP-RR1-XXX	P50L-XXXP-A-XXX P50L-XXXP-B-XXX	P51L-XXXP-A-XXX P51L-XXXP-B-XXX	P50L-XXX-RR1-XXX	P50L-XXXS-A-XXX P50L-XXXS-B-XXX P50L-XXXS-D-XXX	P51L-XXXS-A-XXX P51L-XXXS-B-XXX P51L-XXXS-D-XXX
Positions: 20, 30, 34, 40, 50, 60, 80,100,120			**Positions:** 20, 30, 34, 40, 50, 60, 80,100,120		

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

P50L Series					
TS-1145		**TS-1146**	**TS-2054**		
Low Profile, Right Angle Stacking Plug	Stand Off Height	Low Profile, Right Angle Stacking Socket	Low Profile, Vertical Stacking Socket		
			With Flanges	Without Flanges	
P50L-**XXX**P-RR2-XXX P50L-**XXX**P-RR3-XXX P50L-**XXX**P-RR4-XXX P50L-**XXX**P-RR5-XXX P50L-**XXX**P-RR6-XXX P50L-**XXX**P-RR7-XXX	1.0 mm 1.5 mm 2.0 mm 2.5 mm 3.0 mm 4.0 mm	P50L-**XXX**S-RR1-XXX	P50L-**XXX**S-A-XXX P50L-**XXX**S-B-XXX P50L-**XXX**S-D-XXX	P51L-**XXX**S-A-XXX P51L-**XXX**S-B-XXX P51L-**XXX**S-D-XXX	
Positions: 20, 30, 40, 50, 60, 80, 100		**Positions:** 20, 30, 40, 50, 60, 80, 100	**Positions:** 20, 30, 40, 50, 60, 80, 100		

Product Ordering Information:

P 5 X L - X X X X X - X X X - X X X

- **Series**
- **with or without Flanges, if offered**
- **Positions**
- **Gender**
- **Mounting Option**
- **Plating Option (See Tech Sheet)**

Date Modified: October 10, 2007

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3M™ Pak 50 Wiremount-to-Boardmount Connectors

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).		
P50E Series	**P25E Series**	**P50E Series**
TS-1144	**TS-1141**	**TS-1143**
Vertical and Right Angle Boardmount Plug	**Mating Wiremount Socket**	
S1 = Straight, without Retention Clip SR1 = Right Angle, without Retention Clip RR1 = Right Angle, with Rentention Clip	**One single 30 AWG stranded cable is needed to terminate this connector.**	**Two 28 AWG stranded cables are needed to terminate this connector.**
(each version mates to both Socket Options)	**.025" Pitch Flat Cable**	**.050" Pitch Flat Cable**
P50E-020P1-S1-XXX P50E-020P1-SR1-XXX P50E-020P1-RR1-XXX	P25E-020S-XX	P50E-020S-XX
Positions: 20, 30, 32, 40, 50, 60, 68, 80, 100	**Positions:** 20, 30, 32, 40, 50, 60, 68, 80, 100	**Positions:** 20, 30, 32, 40, 50, 60, 68, 80, 100

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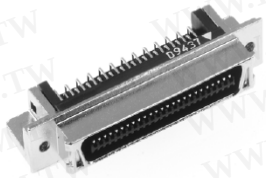
3M™ Pak 50 I/O Board/Panelmount-Wiremount Connectors

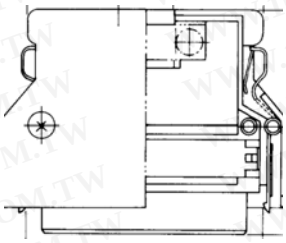
Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

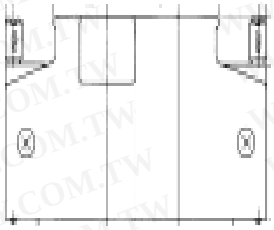


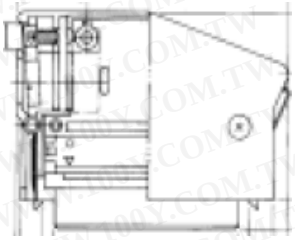
P50 Series		
TS-1147		TS-1154
I/O Plug		Mating Wiremount Socket
Boardmount/Panel Mount Plugs		
Straight	Right Angle	
P50-**XXX**-DDP-S1-XXX	P50-**XXX**-DDP-SR1-XXX	P50-XXX-DDS-XXX 28 AWG Discrete P50-XXX-MDS-XXX 28 AWG Laminated P50-XXX-DDSC-XXX 30 AWG Discrete P50-XXX-MDSD-XXX 30 AWG Laminated
Positions: 20, 28, 34, 40, 50, 60, 68, 80		**Positions:** 20, 28, 34, 40, 50, 60, 68, 80

3M™ Pak 50 I/O Wiremount Junction Shells

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).







P50 Series			
TS-1154	TS-1154		
I/O Socket	Straight Cable Exit	Straight Cable Exit	Right Angle Cable Exit
Wire Type			
P50-XXX-DDS-XXX 28 AWG Discrete P50-XXX-MDS-XXX 28 AWG Laminated P50-XXX-DDSC-XXX 30 AWG Discrete P50-XXX-MDSD-XXX 30 AWG Laminated	**P50-XXX-XXX-XXXX**	**P50-100-STR-XXX**	**P50-XXX-XXX-XXXX** **20 and 50 Position only**
Positions: 20, 28, 34, 50, 60, 68, 80, 100	**Positions:** 20, 28, 34, 50, 60, 68, 80	**100 Position only**	**20 and 50 Position only**

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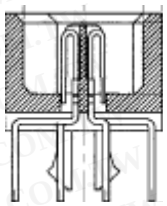
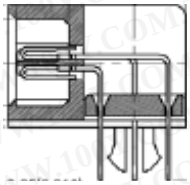
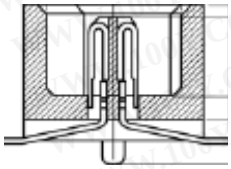
3M™ Pak 50 Low Profile Wiremount-to-A66 Boardmount Connectors

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

Positions	P50LE Series			P25LE Series
	TS-1148	TS-1148	TS-1148	TS-1142
	Straight Through-Hole	Right Angle Through-Hole	Vertical Surfacemount	IDC Wiremount Socket Use .025" Pitch 30 AWG Cable
20	P50LE-020P1-R1-XXX	P50LE-020P1-RR1-XXX	P50LE-020P1-SML-XXX	P25LE-020S-XXX
30	P50LE-030P1-R1-XXX	P50LE-030P1-RR1-XXX	P50LE-030P1-SML-XXX	P25LE-030S-XXX
40	P50LE-040P1-R1-XXX	P50LE-040P1-RR1-XXX	P50LE-040P1-SML-XXX	P25LE-040S-XXX
50	P50LE-050P1-R1-XXX	P50LE-050P1-RR1-XXX	P50LE-050P1-SML-XXX	P25LE-050S-XXX
60	P50LE-060P1-R1-XXX	P50LE-060P1-RR1-XXX	P50LE-060P1-SML-XXX	P25LE-060S-XXX
68	P50LE-068P1-R1-XXX	P50LE-068P1-RR1-XXX	P50LE-068P1-SML-XXX	P25LE-068S-XXX
80	P50LE-080P1-R1-XXX	P50LE-080P1-RR1-XXX	P50LE-080P1-SML-XXX	P25LE-080S-XXX
100	P50LE-100P1-R1-XXX	P50LE-100P1-RR1-XXX	P50LE-100P1-SML-XXX	P25LE-100S-XXX

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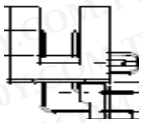
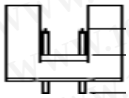
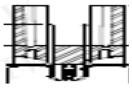
3M™ Pak 50 Board-to-Wiremount Connectors

2-Row Solder Tail Design

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

	810 Series			820 Series
	TS-0253			TS-0254
				Designed to Use .025" Pitch 30 AWG Cable for both Solid and Stranded versions.
Positions	Right Angle Through-Hole	Straight/Vertical Through-Hole	Surfacemount	Mating IDC Wiremount Socket
	0 = No Latch/Ejector, 5 = Short Latch/Ejector, 6 = Long Latch/Ejector			
20	81020-500X03-XX 81020-550X03-XX 81020-560X03-XX	81020-600X03-XX 81020-650X03-XX 81020-660X03-XX	81020-600X03-XX-XX 81020-650X03-XX-XX 81020-660X03-XX-XX	82020-6000-XX No Strain Relief 82020-6006-XX With Strain Relief
26	81026-500X03-XX 81026-550X03-XX 81026-560X03-XX	81026-600X03-XX 81026-650X03-XX 81026-660X03-XX	81026-600X03-XX-XX 81026-650X03-XX-XX 81026-660X03-XX-XX	82026-6000-XX No Strain Relief 82026-6006-XX With Strain Relief
36	81036-500X03-XX 81036-550X03-XX 81036-560X03-XX	81036-600X03-XX 81036-650X03-XX 81036-660X03-XX	81036-600X03-XX-XX 81036-650X03-XX-XX 81036-660X03-XX-XX	82036-6000-XX No Strain Relief 82036-6006-XX With Strain Relief
40	81040-500X03-XX 81040-550X03-XX 81040-560X03-XX	81040-600X03-XX 81040-650X03-XX 81040-660X03-XX	81040-600X03-XX-XX 81040-650X03-XX-XX 81040-660X03-XX-XX	82040-6000-XX No Strain Relief 82040-6006-XX With Strain Relief
50	81050-500X03-XX 81050-550X03-XX 81050-560X03-XX	81050-600X03-XX 81050-650X03-XX 81050-660X03-XX	81050-600X03-XX-XX 81050-650X03-XX-XX 81050-660X03-XX-XX	82050-6000-XX No Strain Relief 82050-6006-XX With Strain Relief
60	81060-500X03-XX 81060-550X03-XX 81060-560X03-XX	81060-600X03-XX 81060-650X03-XX 81060-660X03-XX	81060-600X03-XX-XX 81060-650X03-XX-XX 81060-660X03-XX-XX	82060-6000-XX No Strain Relief 82060-6006-XX With Strain Relief
68	81068-500X03-XX 81068-550X03-XX 81068-560X03-XX	81068-600X03-XX 81068-650X03-XX 81068-660X03-XX	81068-600X03-XX-XX 81068-650X03-XX-XX 81068-660X03-XX-XX	82068-6000-XX No Strain Relief 82068-6006-XX With Strain Relief
80	81080-500X03-XX 81080-550X03-XX 81080-560X03-XX	81080-600X03-XX 81080-650X03-XX 81080-660X03-XX	81080-600X03-XX-XX 81080-650X03-XX-XX 81080-660X03-XX-XX	82080-6000-XX No Strain Relief 82080-6006-XX With Strain Relief
100	81100-500X03-XX 81100-550X03-XX 81100-560X03-XX	81100-500X03-XX 81100-550X03-XX 81100-560X03-XX	81100-600X03-XX-XX 81100-650X03-XX-XX 81100-660X03-XX-XX	82100-6000-XX No Strain Relief 82100-6006-XX With Strain Relief

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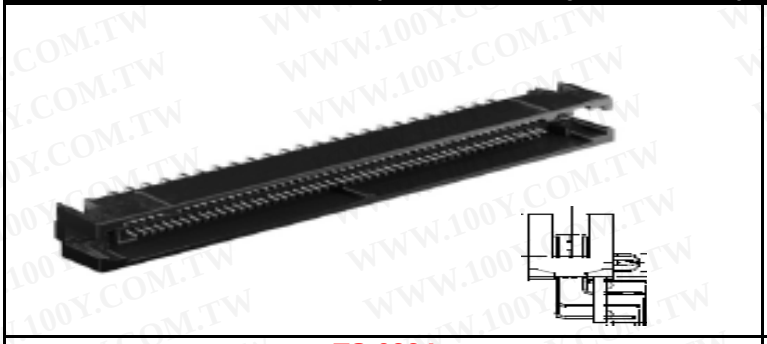
4-Row Solder Tail Design

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).



	TS-0334	TS-0254
	Right Angle Through-Hole	Designed to use .025" Pitch 30 AWG Cable for both Solid and Stranded versions.
Positions	0 = No Latch/Ejector 5 = Short Latch/Ejector 6 = Long Latch/Ejector	Mating IDC Wiremount Socket
20	81020-M00203-XX-XX 81020-M50203-XX-XX 81020-M60203-XX-XX	82020-6000-XX No Strain Relief 82020-6006-XX With Strain Relief
26	81026-M00203-XX-XX 81026-M50203-XX-XX 81026-M60203-XX-XX	82026-6000-XX No Strain Relief 82026-6006-XX With Strain Relief
36	81036-M00203-XX-XX 81036-M50203-XX-XX 81036-M60203-XX-XX	82036-6000-XX No Strain Relief 82036-6006-XX With Strain Relief
40	81040-M00203-XX-XX 81040-M50203-XX-XX 81040-M60203-XX-XX	82040-6000-XX No Strain Relief 82040-6006-XX With Strain Relief
50	81050-M00203-XX-XX 81050-M50203-XX-XX 81050-M60203-XX-XX	82050-6000-XX No Strain Relief 82050-6006-XX With Strain Relief
60	81060-M00203-XX-XX 81060-M50203-XX-XX 81060-M60203-XX-XX	82060-6000-XX No Strain Relief 82060-6006-XX With Strain Relief
68	81068-M00203-XX-XX 81068-M50203-XX-XX 81068-M60203-XX-XX	82068-6000-XX No Strain Relief 82068-6006-XX With Strain Relief
80	81080-M00203-XX-XX 81080-M50203-XX-XX 81080-M60203-XX-XX	82080-6000-XX No Strain Relief 82080-6006-XX With Strain Relief
100	81100-M00203-XX-XX 81100-M50203-XX-XX 81100-M60203-XX-XX	82100-6000-XX No Strain Relief 82100-6006-XX With Strain Relief

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