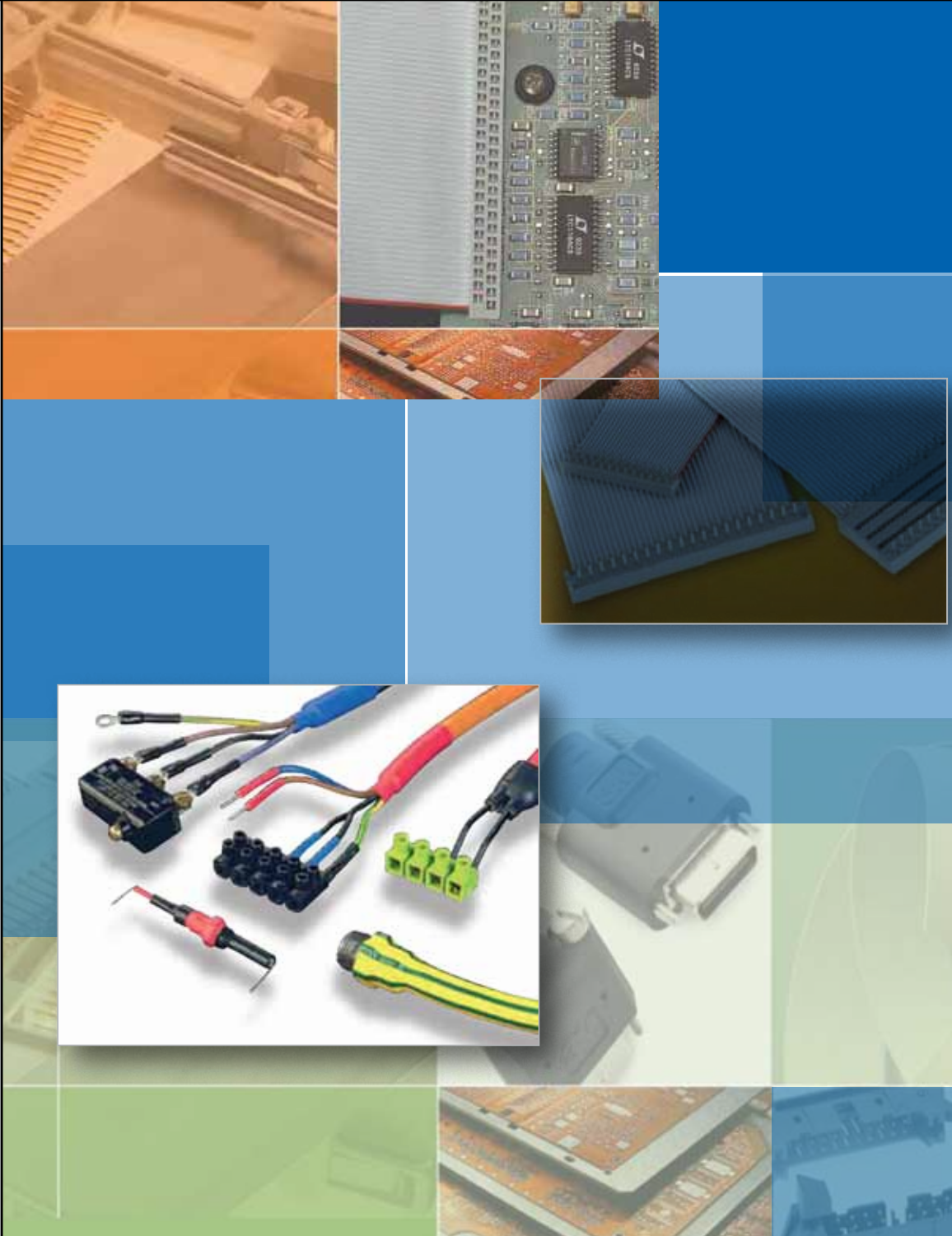




# 3M Interconnect Products

## Mating Guide

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# 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).

## 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 Surface-mount 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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# 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).

| Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX). |                 |                    |   |                      |   |  |   |   |
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| Latch/Eject Header  |                 |                    | Mating Wiremount Socket   |                      |   |  |   |   |
| Positions   | Vertical 4-Wall | Right Angle 4-Wall | 3000 Series   |                      | 79 Series   | 891 Series   | CHG Series  |   |
|   |                 |                    | 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  |
|                            |                 |                    |  |                      |  |  |  |  |
| <b>TS-0771</b>  |                 |                    | <b>TS-0718</b>  |                      | <b>TS-0094</b>  | <b>TS-0449</b>   | <b>TS-0191</b>  | <b>TS-0192</b>  |
| Latch/Eject Header  |                 |                    | Mating Wiremount Sockets  |                      |   |  |   |   |
| Positions   | Vertical 3-Wall | Right Angle 3-Wall | 3000 Series   |                      | 79 Series   | 891 Series   | CHG Series  |   |
|   |                 |                    | 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  |

# 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).

| Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX). |                       |   |                       |  |  |  |                         |   |                  |   |  |  |  |
|---|-----------------------|---|-----------------------|--|--|--|-------------------------|---|------------------|---|--|--|--|
|                               |                       |  |                       |   |  |   |                         |   |                  |    |  |   |  |
| <b>TS-0773</b>  |                       | <b>TS-0774</b>  |                       | <b>TS-0718</b>   |  | <b>TS-0094</b>   |                         | <b>TS-0449</b>  |                  | <b>TS-0191</b>  |  | <b>TS-0192</b>   |  |
| Latch/Eject Condo Header  |                       |   |                       | Mating Wiremount Socket  |  |  |                         |   |                  |   |  |  |  |
| Positions   | Right Angle<br>3-Wall | Right Angle<br>4-Wall   | 3000 Series           |  | 79 Series                              | 891 Series   | CHG Series              |   |                  |   |  |  |  |
|   |                       |   | Open Cover<br>Sockets | Closed Cover<br>Sockets  | Open Cover<br>Half High<br>Center Bump | Preassem.<br>Open Cover<br>Only  | 2-Row<br>No Center Bump | DIN Style<br>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  |   |  |  |  |
|                            |                       |   |                       |  |  |  |                         |  |                  |  |  |  |  |
| <b>TS-0478</b>  |                       |   |                       | <b>TS-0718</b>   |  | <b>TS-0094</b>   |                         | <b>TS-0449</b>  |                  | <b>TS-0191</b>  |  | <b>TS-0192</b>   |  |
| Compliant Pin Header  |                       |   |                       | Mating Wiremount Socket  |  |  |                         |   |                  |   |  |  |  |
| Positions   | Compliant Pin         |   | 3000 Series           |  | 79 Series                              | 891 Series   | CHG Series              |   |                  |   |  |  |  |
|   |                       |   | Open Cover<br>Sockets | Closed Cover<br>Sockets  | Open Cover<br>Half High<br>Center Bump | Preassem.<br>Open Cover<br>Only  | 2-Row<br>No Center Bump | DIN Style<br>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 |   |  |  |  |

# 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).

| Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX). |                       |  |                      |  |   |  |  |
|---|-----------------------|--|----------------------|--|---|--|--|
|                              |                       |   |                      |   |   |   |   |
| <b>TS-0161</b>  |                       | <b>TS-0718</b>   |                      | <b>TS-0094</b>   | <b>TS-0449</b>  | <b>TS-0191</b>   | <b>TS-0192</b>   |
| Pinless Shroud  |                       | Mating Wiremount Socket  |                      |  |   |  |  |
| Positions   | Pinless Shroud Header | 3000 Series  |                      | 79 Series  | 891 Series  | CHG Series   |  |
|   |                       | 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  |
|                             |                       |  |                      |  |  |  |  |
| <b>TS-0168</b>  |                       | <b>TS-0718</b>   |                      | <b>TS-0094</b>   | <b>TS-0449</b>  | <b>TS-0191</b>   | <b>TS-0192</b>   |
| Pinless Shroud  |                       | Mating Wiremount Socket  |                      |  |   |  |  |
| Positions   | Surfacemount Header   | 3000 Series  |                      | 79 Series  | 891 Series  | CHG Series   |  |
|   |                       | 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  | -                     | -  | -                    | -  | -   | -  | -  |

# 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                |                      |                        |
| 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        |

# 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).

| Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX). |                    |                       |   |                         |   |  |   |   |
|---|--------------------|-----------------------|---|-------------------------|---|--|---|---|
|                               |                    |                       |  |                         |  |  |  |  |
| <b>TS-0770</b>  |                    |                       | <b>TS-0718</b>  |                         | <b>TS-0094</b>  | <b>TS-0449</b>   | <b>TS-0191</b>  | <b>TS-0192</b>  |
| Low Profile Header  |                    |                       | Mating Wiremount Socket   |                         |   |  |   |   |
| Positions   | Vertical<br>4-Wall | Right Angle<br>4-Wall | 3000 Series   |                         | 79 Series   | 891 Series   | CHG Series  |   |
|   |                    |                       | Open Cover<br>Sockets   | Closed Cover<br>Sockets | Open Cover<br>Half High<br>Center Bump  | Preassem.<br>Open Cover<br>Only  | 2-Row<br>No Center Bump   | DIN Style<br>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   |

# 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).

| Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX). |                              |   |                 |  |                     |
|---|------------------------------|---|-----------------|--|---------------------|
|                              |                              |  |                 |  |                     |
| <b>TS-See chart below</b>   |                              | <b>TS-0815</b>  |                 | <b>TS-0814</b>   |                     |
| <b>Pin Strip Header</b>   |                              | <b>Boardmount Socket</b>  |                 | <b>CHG Wiremount Socket</b>  |                     |
| <b>1-Row</b>  |                              |   |                 |  |                     |
| Straight  | Right Angle                  |   |                 |  |                     |
| 23XX-61X1TX<br>Gold Plating   | 23XX-51X1TX<br>Gold Plating  | <b>TS-0766</b>  | 9X9850-01-XX-XX | 9X9841-01-XX-XX  | CHG-10XX-001010-KXP |
| 929647-XX-XX<br>Gold Plating  | 929648-XX-XX<br>Gold Plating | <b>TS-0769</b>  | 9X9850-01-XX-XX | 9X9841-01-XX-XX  | CHG-10XX-001010-KXP |
| 929705-XX-XX<br>Gold Plating  | -                            |   | 9X9850-01-XX-XX | 9X9841-01-XX-XX  | CHG-10XX-001010-KXP |
| 929834-XX-XX<br>Tin Plating   | 929835-XX-XX<br>Tin Plating  |   | 9X9974-01-XX-XX |  |                     |
| 929700-XX-XX<br>Tin Plating   | 929730-XX-XX<br>Tin Plating  |   | 9X9974-01-XX-XX |  |                     |
| <b>2-Row</b>  |                              |   |                 |  |                     |
| 23XX-61X1TX<br>Gold Plating   | 23XX-51X1 TX<br>Gold Plating | <b>TS-0766</b>  | 9X9852-01-XX-XX | 9X9842-01-XX-XX  | CHG-20XX-001010-KXP |
| 929665-XX-XX  | 929667-XX-XX                 | <b>TS-0769</b><br>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                 | <b>TS-0769</b><br>Tin Plated  | 9X9975-01-XX-XX |  |                     |
| 929710-XX-XX  | -                            |   | 9X9975-01-XX-XX |  |                     |

# 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).

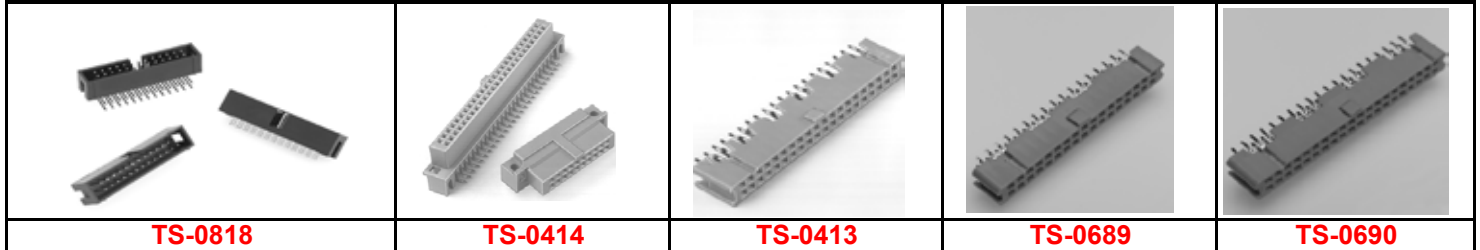
| Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX). |                    |   |                          |  |             |   |  |   |  |
|---|--------------------|---|--------------------------|--|-------------|---|--|---|--|
|                              |                    |    |                          |    |             |    |  |    |  |
| <b>TS-0772</b>  |                    | <b>TS-0414</b>  |                          | <b>TS-0413</b>   |             | <b>TS-0689</b>  |  | <b>TS-0690</b>  |  |
| Latch/Eject Header  |                    |   | Mating Boardmount Socket |  |             |   |  |   |  |
| Positions   | Vertical<br>4-Wall | Right Angle<br>4-Wall   | 5100 Series              | 8500 Series  | 6800 Series | 9100 Series   |  |   |  |
|   |                    |   | 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   |  |   |  |
|                            |                    |  |                          |  |             |  |  |  |  |
| <b>TS-0771</b>  |                    | <b>TS-0414</b>  |                          | <b>TS-0413</b>   |             | <b>TS-0689</b>  |  | <b>TS-0690</b>  |  |
| Latch/Eject Header  |                    |   | Mating Boardmount Socket |  |             |   |  |   |  |
| Positions   | Vertical<br>3-Wall | Right Angle<br>3-Wall   | 5100 Series              | 8500 Series  | 6800 Series | 9100 Series   |  |   |  |
|   |                    |   | 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.

# 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**

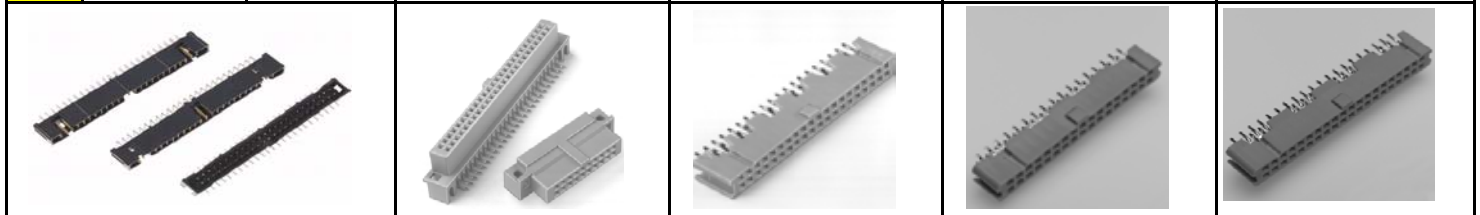
**TS-0689**

**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.


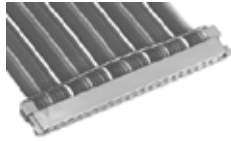
# 3M™ Board-to-Board Copper Connectors

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

| Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX). |                         |                              |  |                         |                   |
|---|-------------------------|------------------------------|--|-------------------------|-------------------|
|                              |                         |                              |  |                         |                   |
| <b>TS-0766</b>  |                         |                              | <b>TS-0815</b>   |                         |                   |
| Pin Strip Header  |                         | Single-Row Boardmount Socket |  | 2-Row Boardmount Socket |                   |
| <b>TS-0766</b>  |                         | <b>TS-0815</b>               |  | <b>TS-0815</b>          |                   |
| <b>2300 Series</b>  |                         | <b>929 Series</b>            |  | <b>929 Series</b>       |                   |
| Straight Solder Tail  | Right Angle Solder Tail | Gold Plating                 | Tin Plating  | Gold Plating            | Tin Plating       |
| 23XX-6XX1   | 23XX-5XX1               | 9X9850                       | 9X9974   | 9X9852                  | 9X9975            |
|                              |                         |                              |  |                         |                   |
| <b>TS-0766</b>  |                         |                              | <b>TS-0814</b>   |                         |                   |
| Pin Strip Header  |                         |                              | Mating Through-Board Socket  |                         |                   |
| <b>TS-0766</b>  |                         |                              | <b>TS-0814</b>   |                         |                   |
| <b>2300 Series</b>  |                         |                              | <b>929 Series</b>  |                         | <b>929 Series</b> |
| 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). |                     |   |
|---|---------------------|---|
|                            |                     |  |
| <b>TS-0300</b>  |                     | <b>TS-0322</b>  |
| <b>502 Series</b>   |                     | <b>501 Series</b>   |
| 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  |

# 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).

| Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX). |             |                |                          |                |             |                |  |                |  |
|---|-------------|----------------|--------------------------|----------------|-------------|----------------|--|----------------|--|
|   |             |                |                          |                |             |                |  |                |  |
| <b>TS-0086</b>  |             | <b>TS-0414</b> |                          | <b>TS-0413</b> |             | <b>TS-0689</b> |  | <b>TS-0690</b> |  |
| 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    |  |                |  |

# 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).

| Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX). |             |                |                          |                |             |                |  |                |  |
|---|-------------|----------------|--------------------------|----------------|-------------|----------------|--|----------------|--|
|   |             |                |                          |                |             |                |  |                |  |
| <b>TS-0086</b>  |             | <b>TS-0414</b> |                          | <b>TS-0413</b> |             | <b>TS-0689</b> |  | <b>TS-0690</b> |  |
| 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    |  |                |  |

# 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

|   |           |   |  |  |  |   |
|---|-----------|---|--|--|--|---|
|  |           |  |  |  |  | <b>Printed Circuit Board</b>  |
| <b>TS-0012</b>  |           | <b>TS-0010</b>  |  | <b>TS-0011</b>   |  |   |
| <b>3000 Series</b>  |           | <b>3000 Series</b>  |  | <b>3000 Series</b>   |  | Card-edge connectors were designed for a board thickness of .054" to .070". |
| Drilled Mounting Flanges  |           | Without Mounting Flanges  |  | Slotted Mounting Flanges   |  |   |
| <b>Pos</b>  |           |   |  |  |  |   |
| 10  | 3358-0000 | 3358-0001   |  | 3358-0002  |  |   |
| 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  |  |   |

# 3M™ Wire-to-Wire Copper Connectors

## .100" x .100" Mating Chart


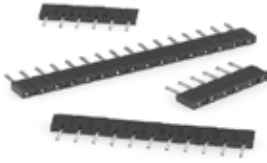
Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX).

| 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.

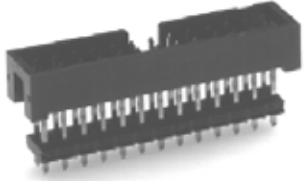
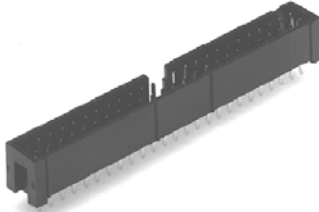

# 3M™ Low Profile Board-to-Board Copper Connectors

.100" Mating Chart

| Note: All connector options and ordering information may be obtained from the Technical Data Sheet (TS-XXXX). |            |        |  |                   |
|---|------------|--------|--|-------------------|
|                              |            |        |  |                   |
| <b>TS-0816</b>  |            |        | <b>TS-0211</b>   |                   |
| Pin Strip Header  |            |        | Mating Boardmount Socket   |                   |
| <b>TS-0816</b>  |            |        | <b>TS-0211</b>   |                   |
| <b>929 Series</b>   |            |        | <b>929 Series</b>  | <b>929 Series</b> |
| 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 |  |
| <b>Positions</b>  | <b>924 Series</b> |  | <b>929 Series</b>        |  |
|   | <b>925 Series</b> |  | 2-Row Gold Plating       | 2-Row Tin Plating  |
|   | <b>TS-0548</b>    | <b>TS-0549</b>   | <b>TS-0815</b>           | <b>TS-0815</b>   |
| 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  |

# 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






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

# 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

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

# 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<br>TS-0427 | 101 Series<br>TS-0423 | 101 Series<br>TS-0669 | 101 Series<br>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<br>TS-0531 | 101 Series<br>TS-0423 | 101 Series<br>TS-0669 | 101 Series<br>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          | -                     | -                     |                       |              |  |  |

# 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).

| <b>.050" MDR Right Angle Boardmount Receptacle</b> |                   |                   |                   |                            | <b>Mating Wiremount Plug</b> |                     |  |  |
|--|-------------------|-------------------|-------------------|----------------------------|------------------------------|---------------------|--|--|
|  |                   | <b>Shielded</b>   |                   | <b>Shielded Solder Cup</b> |                              | <b>Non-Shielded</b> |  |  |
| <b>Pos</b>   | <b>102 Series</b> | <b>101 Series</b> | <b>101 Series</b> | <b>101 Series</b>          | <b>101 Series</b>            |                     |  |  |
|  | <b>TS-0621</b>    | <b>TS-0423</b>    | <b>TS-0669</b>    | <b>TS-0514</b>             |                              |                     |  |  |
| 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               |                              |                     |  |  |
|  |                   |                   |                   |                            |                              |                     |  |  |
| <b>.050" MDR Right Angle Boardmount Receptacle</b> |                   |                   |                   |                            | <b>Mating Wiremount Plug</b> |                     |  |  |
|  |                   | <b>Shielded</b>   |                   | <b>Shielded Solder Cup</b> |                              | <b>Non-Shielded</b> |  |  |
| <b>Pos</b>   | <b>102 Series</b> | <b>101 Series</b> | <b>101 Series</b> | <b>101 Series</b>          | <b>101 Series</b>            |                     |  |  |
|  | <b>TS-0790</b>    | <b>TS-0423</b>    | <b>TS-0669</b>    | <b>TS-0514</b>             |                              |                     |  |  |
| 36   | 10236-5DX3XX      | 10136-6000EC      | 10136-3000XX      | -                          |                              |                     |  |  |
|  |                   |                   |                   |                            |                              |                     |  |  |
| <b>.050" MDR Vertical Compliant Pin Receptacle</b> |                   |                   |                   |                            | <b>Mating Wiremount Plug</b> |                     |  |  |
|  |                   | <b>Shielded</b>   |                   | <b>Shielded Solder Cup</b> |                              | <b>Non-Shielded</b> |  |  |
| <b>Pos</b>   | <b>102 Series</b> | <b>101 Series</b> | <b>101 Series</b> | <b>101 Series</b>          | <b>101 Series</b>            |                     |  |  |
|  | <b>TS-0961</b>    | <b>TS-0423</b>    | <b>TS-0669</b>    | <b>TS-0514</b>             |                              |                     |  |  |
| 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      | -                 | -                          |                              |                     |  |  |

# 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   |
|  |              | TS-0671               | TS-0423             | TS-0514      |
| Pos  |              |                       |                     |              |
| 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   |
|  |              | TS-0638               | TS-0423             | TS-0514      |
| Pos  |              |                       |                     |              |
| 20   | 10220-22X0XE | 10120-6000EC          | 10120-3000XX        | -            |
| 26   | 10226-22X0XE | 10126-6000EC          | 10126-3000XX        | -            |
| 36   | 10236-22X0XE | 10136-6000EC          | 10136-3000XX        | -            |

# 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).

|   |                   |                              |                            |
|---|-------------------|------------------------------|----------------------------|
|   |                   |                              |                            |
| <b>.050" MDR Surfacemount Vertical Receptacle</b> |                   | <b>Mating Wiremount Plug</b> |                            |
|   |                   | <b>Shielded</b>              | <b>Shielded Solder Cup</b> |
| <b>Pos</b>  | <b>102 Series</b> | <b>101 Series</b>            | <b>101 Series</b>          |
|   | <b>TS-0874</b>    | <b>TS-0423</b>               | <b>TS-0669</b>             |
| 26  | 10226-1A10XE      | 10126-6000EC                 | 10126-3000XX               |
|   |                   |                              |                            |
| <b>.050" MDR Surfacemount Vertical Receptacle</b> |                   | <b>Mating Wiremount Plug</b> |                            |
|   |                   | <b>Shielded</b>              | <b>Shielded Solder Cup</b> |
| <b>Pos</b>  | <b>102 Series</b> | <b>101 Series</b>            | <b>101 Series</b>          |
|   | <b>TS-0755</b>    | <b>TS-0423</b>               | <b>TS-0669</b>             |
| 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

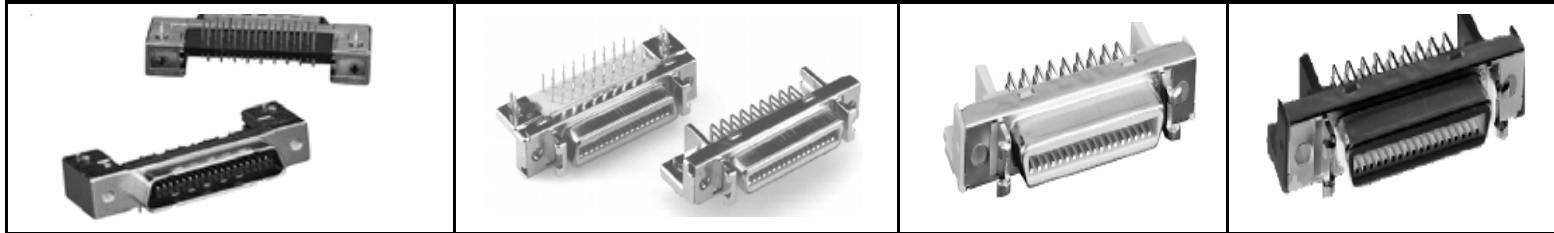
Note: All connector options and ordering information can be obtained from the technical data sheet (TS-XXXX).

|   |                   |                              |                            |
|---|-------------------|------------------------------|----------------------------|
|   |                   |                              |                            |
| <b>.050" MDR Wiremount/Panel-mount Receptacle, Shielded</b> |                   | <b>Mating Wiremount Plug</b> |                            |
|   |                   | <b>Shielded</b>              | <b>Shielded Solder Cup</b> |
| <b>Pos</b>  | <b>102 Series</b> | <b>101 Series</b>            | <b>101 Series</b>          |
|   | <b>TS-0425</b>    | <b>TS-0423</b>               | <b>TS-0669</b>             |
| 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               |
| 68  | 10268-0210EC      | 10168-6000EC                 | -                          |
| 68  | 10268-0210EC      | 10168-6000EC                 | -                          |
|   |                   |                              | 10150-8X00EE               |
|   |                   |                              | 10168-8X00EE               |
|   |                   |                              | 10168-8X00EE               |

# 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).




| Through-Hole Right Angle Plug |                   |            | Mating Boardmount Receptacle |                   |                   |
|-------------------------------|-------------------|------------|------------------------------|-------------------|-------------------|
| Pos                           | Normal            | Inverse    | Right Angle                  | Right Angle       | Right Angle       |
|                               | <b>101 Series</b> |            | <b>102 Series</b>            | <b>102 Series</b> | <b>102 Series</b> |
|                               | <b>TS-0620</b>    |            | <b>TS-0531</b>               | <b>TS-0621</b>    | <b>TS-0790</b>    |
| 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      | -                 |

# 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 | 103A0-3210-00X                    | -                | -                | -                    | 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).

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

# 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<br>TS-0423 | 103 Series<br>TS-0655            | 103 Series<br>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         |

# 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).



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

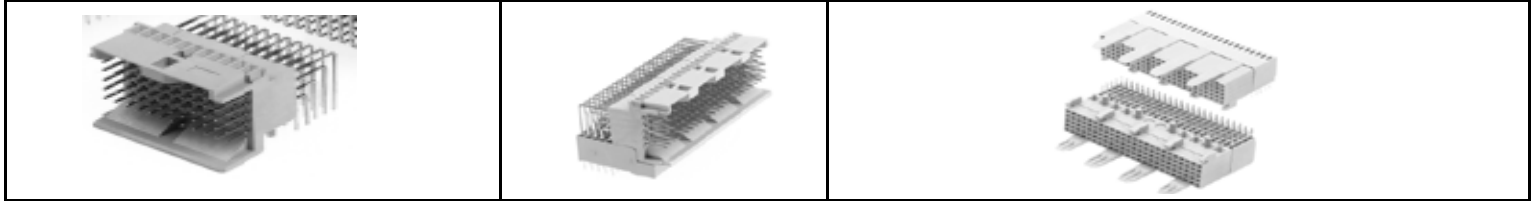
For further information or questions concerning this application, contact 3M Technical Service.

| MDR Dust Cover for Panel Mount Receptacle |                | Panel Mount MDR Connector |
|---|----------------|---------------------------|
| <b>Pos</b>                                | <b>TS-0399</b> |                           |
| 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               |

# 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**

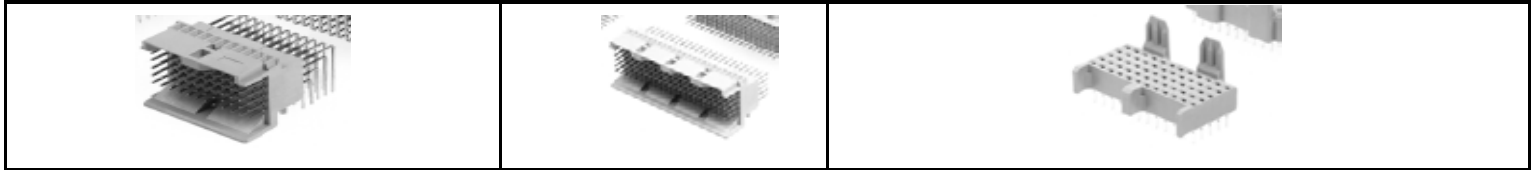
**TS-1124**

**TS-1117**

Inverse Header

Mating Right Angle Socket

| Positions | Inverse Header           |                          | Mating Right Angle Socket |                     |
|-----------|--------------------------|--------------------------|---------------------------|---------------------|
|           | 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

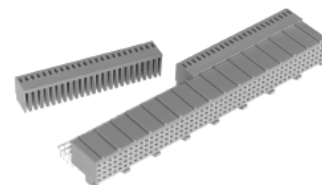
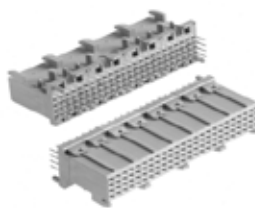
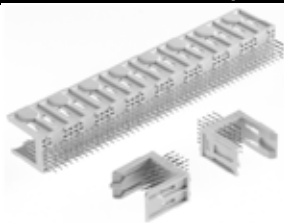
Mating Vertical Inverse Socket

| Positions | Inverse Header           |                                | Mating Vertical Inverse Socket |                    |
|-----------|--------------------------|--------------------------------|--------------------------------|--------------------|
|           | 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       | ---                            | ---                            | ---                |

# 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).



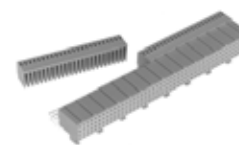
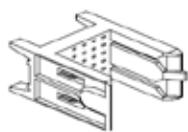
## MP2 Series

| MP2 Series |   |                          |  |                          |  |                              |
|------------|---|--------------------------|--|--------------------------|--|------------------------------|
| TS-1120    |   |                          | TS-1118                                    |                          | TS-1115                                    |                              |
| Positions  | Vertical Header   |                          | Mating Vertical Socket                     |                          | Mating Right Angle Socket                  |                              |
|            | 4-Row Vertical Header with Shoulder Pins for Compliant Pin Assembly | PCB Mounting Style       | 4-Row Vertical Stacking Socket             | PCB Mounting Style       | 4-Row Right Angle Socket with Tail Cover   | PCB Mounting Style           |
| 24         | MP2-H024-4XSX-S-XXXX<br>MP2-H024-4XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS024-41SX-XXXX<br>MP2-SS024-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S024-41XX-C-XXXX<br>MP2-S024-41XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 48         | MP2-H048-4XSX-S-XXXX<br>MP2-H048-4XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS048-41SX-XXXX<br>MP2-SS048-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S048-41XX-C-XXXX<br>MP2-S048-41XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 72         | MP2-H072-4XSX-S-XXXX<br>MP2-H072-4XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS072-41SX-XXXX<br>MP2-SS072-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S072-41XX-C-XXXX<br>MP2-S072-41XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 96         | MP2-H096-4XSX-S-XXXX<br>MP2-H096-4XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS096-41SX-XXXX<br>MP2-SS096-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S096-41XX-C-XXXX<br>MP2-S096-41XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 120        | MP2-H120-4XSX-S-XXXX<br>MP2-H120-4XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS120-41SX-XXXX<br>MP2-SS120-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S120-41XX-C-XXXX<br>MP2-S120-41XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 144        | MP2-H144-4XSX-S-XXXX<br>MP2-H144-4XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS144-41SX-XXXX<br>MP2-SS144-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S144-41XX-C-XXXX<br>MP2-S144-41XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 168        | MP2-H168-4XSX-S-XXXX<br>MP2-H168-4XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS168-41SX-XXXX<br>MP2-SS168-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S168-41XX-C-XXXX<br>MP2-S168-41XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 192        | MP2-H192-4XSX-S-XXXX<br>MP2-H192-4XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS192-41SX-XXXX<br>MP2-SS192-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S192-41XX-C-XXXX<br>MP2-S192-41XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| Positions  | Vertical Header   |                          | Mating Vertical Socket                     |                          | Mating Right Angle Socket                  |                              |
|            | 5-Row Vertical Header with Shoulder Pins for Compliant Pin Assembly | PCB Mounting Style       | 5-Row Vertical Stacking Socket             | PCB Mounting Style       | 5-Row Right Angle Socket with Tail Cover   | PCB Mounting Style           |
| 30         | MP2-H030-5XSX-S-XXXX<br>MP2-H030-5XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS030-51SX-XXXX<br>MP2-SS030-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S030-51XX-C-XXXX<br>MP2-S030-51XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 60         | MP2-H060-5XSX-S-XXXX<br>MP2-H060-5XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS060-51SX-XXXX<br>MP2-SS060-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S060-51XX-C-XXXX<br>MP2-S060-51XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 90         | MP2-H090-5XSX-S-XXXX<br>MP2-H090-5XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS090-51SX-XXXX<br>MP2-SS090-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S090-51XX-C-XXXX<br>MP2-S090-51XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 120        | MP2-H120-5XSX-S-XXXX<br>MP2-H120-5XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS120-51SX-XXXX<br>MP2-SS120-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S120-51XX-C-XXXX<br>MP2-S120-51XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 150        | MP2-H150-5XSX-S-XXXX<br>MP2-H150-5XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS150-51SX-XXXX<br>MP2-SS150-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S150-51XX-C-XXXX<br>MP2-S150-51XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 180        | MP2-H180-5XSX-S-XXXX<br>MP2-H180-5XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS180-51SX-XXXX<br>MP2-SS180-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S180-51XX-C-XXXX<br>MP2-S180-51XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 210        | MP2-H210-5XSX-S-XXXX<br>MP2-H210-5XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS210-51SX-XXXX<br>MP2-SS210-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S210-51XX-C-XXXX<br>MP2-S210-51XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |
| 240        | MP2-H240-5XSX-S-XXXX<br>MP2-H240-5XPX-S-XXXX                        | Solder Tail<br>Press-Fit | MP2-SS240-51SX-XXXX<br>MP2-SS240-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S240-51XX-C-XXXX<br>MP2-S240-51XX-XXXX | Sldr/Tail w/cap<br>Press-Fit |

# 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<br>2 = 4.40 mm<br>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<br>MP2-H024-4XP7-XXXX   | MP2-SS024-41SX-XXXX<br>MP2-SS024-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S024-41XX-C-XXXX<br>MP2-S024-41XX-XXXX |
| 48                    | MP2-HS 048 - 4 X   |   | MP2-H024-4XP5-XXXX<br>MP2-H024-4XP7-XXXX   | MP2-SS048-41SX-XXXX<br>MP2-SS048-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S048-41XX-C-XXXX<br>MP2-S048-41XX-XXXX |
| 72                    | MP2-HS 072 - 4 X   |   | MP2-H024-4XP5-XXXX<br>MP2-H024-4XP7-XXXX   | MP2-SS072-41SX-XXXX<br>MP2-SS072-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S072-41XX-C-XXXX<br>MP2-S072-41XX-XXXX |
| 96                    | MP2-HS 096 - 4 X   |   | MP2-H024-4XP5-XXXX<br>MP2-H024-4XP7-XXXX   | MP2-SS096-41SX-XXXX<br>MP2-SS096-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S096-41XX-C-XXXX<br>MP2-S096-41XX-XXXX |
| 120                   | MP2-HS 120 - 4 X   |   | MP2-H024-4XP5-XXXX<br>MP2-H024-4XP7-XXXX   | MP2-SS120-41SX-XXXX<br>MP2-SS120-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S120-41XX-C-XXXX<br>MP2-S120-41XX-XXXX |
| 144                   | MP2-HS 144 - 4 X   |   | MP2-H024-4XP5-XXXX<br>MP2-H024-4XP7-XXXX   | MP2-SS144-41SX-XXXX<br>MP2-SS144-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S144-41XX-C-XXXX<br>MP2-S144-41XX-XXXX |
| 168                   | MP2-HS 168 - 4 X   |   | MP2-H024-4XP5-XXXX<br>MP2-H024-4XP7-XXXX   | MP2-SS168-41SX-XXXX<br>MP2-SS168-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S168-41XX-C-XXXX<br>MP2-S168-41XX-XXXX |
| 192                   | MP2-HS 192 - 4 X   |   | MP2-H024-4XP5-XXXX<br>MP2-H024-4XP7-XXXX   | MP2-SS192-41SX-XXXX<br>MP2-SS192-41PX-XXXX | Solder Tail<br>Press-Fit | MP2-S192-41XX-C-XXXX<br>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<br>2 = 4.40 mm<br>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<br>MP2-H030-5XP7-XXXX   | MP2-SS030-51SX-XXXX<br>MP2-SS030-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S030-51XX-C-XXXX<br>MP2-S030-51XX-XXXX |
| 60                    | MP2-HS 060 - 5 X   |   | MP2-H 060-5XP5-XXXX<br>MP2-H 060-5XP7-XXXX | MP2-SS060-51SX-XXXX<br>MP2-SS060-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S060-51XX-C-XXXX<br>MP2-S060-51XX-XXXX |
| 90                    | MP2-HS 090 - 5 X   |   | MP2-H090-5XP5-XXXX<br>MP2-H090-5XP7-XXXX   | MP2-SS090-51SX-XXXX<br>MP2-SS090-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S090-51XX-C-XXXX<br>MP2-S090-51XX-XXXX |
| 120                   | MP2-HS 120 - 5 X   |   | MP2-H120-5XP5-XXXX<br>MP2-H120-5XP7-XXXX   | MP2-SS120-51SX-XXXX<br>MP2-SS120-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S120-51XX-C-XXXX<br>MP2-S120-51XX-XXXX |
| 150                   | MP2-HS 150 - 5 X   |   | MP2-H150-5XP5-XXXX<br>MP2-H150-5XP7-XXXX   | MP2-SS150-51SX-XXXX<br>MP2-SS150-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S150-51XX-C-XXXX<br>MP2-S150-51XX-XXXX |
| 180                   | MP2-HS180 - 5 X  |   | MP2-H180-5XP5-XXXX<br>MP2-H180-5XP7-XXXX   | MP2-SS180-51SX-XXXX<br>MP2-SS180-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S180-51XX-C-XXXX<br>MP2-S180-51XX-XXXX |
| 210                   | MP2-HS 210- 5 X  |   | MP2-H210-5XP5-XXXX<br>MP2-H210-5XP7-XXXX   | MP2-SS210-51SX-XXXX<br>MP2-SS210-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S210-51XX-C-XXXX<br>MP2-S210-51XX-XXXX |
| 240                   | MP2-HS 240 - 5 X   |   | MP2-H240-5XP5-XXXX<br>MP2-H240-5XP7-XXXX   | MP2-SS240-51SX-XXXX<br>MP2-SS240-51PX-XXXX | Solder Tail<br>Press-Fit | MP2-S240-51XX-C-XXXX<br>MP2-S240-51XX-XXXX |

# 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

#### 4-Row Vertical Header with Press-Fit Tail

#### Mating 4-Row Right Angle Socket Solder or Press-Fit Tail

Pos

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)

#### 5-Row Vertical Press-Fit Tail

#### Mating 5-Row Right Angle Socket Solder or Press-Fit Tail

Pos

10

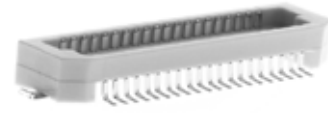
MP2 - HP10 - 5XP1 - XXX

MP2 - SP10 - 51PX - XXXX Press-Fit Tail  
 MP2 - SP10 - 51PX - XXXX Soder Tail (Press Peg)  
 MP2 - SP10 - 51PX - XXXX Solder Tail (Heat Stake)

# 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

#### Plug Connector

#### TS-1149

#### Socket Connector

#### Mated Height

#### Pos





#### Product Number

#### Product Number

| Pos                                      | Product Number      | Mated Height | Product Number      |
|--|---------------------|--------------|---------------------|
| 40, 50, 60, 80,<br>100, 120, 140,<br>160 | PK5-XXXP-X-X-X2-GGF | 4 mm         | PK5-XXXS-X-X-X2-GGF |
|  | PK5-XXXP-X-X-X2-GGF | 5 mm         | PK5-XXXS-X-X-X3-GGF |
|  | PK5-XXXP-X-X-X2-GGF | 6 mm         | PK5-XXXS-X-X-X4-GGF |
|  | PK5-XXXP-X-X-X4-GGF | 6 mm         | PK5-XXXS-X-X-X2-GGF |
|  | PK5-XXXP-X-X-X4-GGF | 7 mm         | PK5-XXXS-X-X-X3-GGF |
|  | PK5-XXXP-X-X-X4-GGF | 8 mm         | PK5-XXXS-X-X-X4-GGF |

# 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) |   |                       |   |   |  |
|--|---|-----------------------|---|---|--|
|                             |   |                       |  |   |  |
| <b>P05N Series</b>   |   |                       |   |   |  |
| <b>TS-1093</b>   |   |                       | <b>TS-1093</b>  |   |  |
| <b>Surfacemount Vertical Plug Connector</b>  |   | <b>Mated Height</b>   | <b>Surfacemount Vertical Socket Connector</b>                                       |   |  |
| <b>Pos</b>   | <b>Product Number</b>   |                       | <b>Product Number</b>   |   |  |
| 20, 30, 40,<br>50, 60, 80,<br>100  | P05N-XXXPT-A-G  | 3 mm                  | P05N-XXXST-A-G  |   |  |
|  |  |                       |   |  |  |
|  | <b>P05N Series</b>  |                       |   |   |  |
|  | <b>TS-1092</b>  |                       |   | <b>TS-1092</b>  |  |
|  | <b>Surfacemount Vertical Plug Connector</b>                                       |                       | <b>Mated Height</b>   | <b>Surfacemount Vertical Socket Connector</b>                                       |  |
|  |   | <b>Product Number</b> |   | <b>Product Number</b>   |  |
|  |   | 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  |  |

# 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,<br>50,<br>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

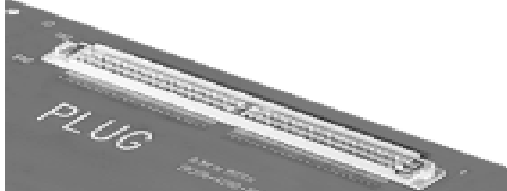

Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

| P08 Series |                          |              |                          |
|------------|--------------------------|--------------|--------------------------|
| Pos        | TS-2096                  | Mated Height | TS-2096                  |
|            | Hermaphroditic Connector |              | 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         |

# 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           | Mated Height | TS-0888             |
|           | Surfacemount Plug |              | 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                                    |  | Plug Standoff Height Code:<br><br>R= w/o Standoff<br>1 = 1 mm<br>2 = 2 mm<br>3 = 3 mm<br>4 = 4 mm | PK10M Series  |
|---|--|---|---|
| TS-1159   | TS-1151  |   | 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<br><br>40, 50,<br>60, 80  | PK10M-040SX-SMT-XX                                    |
| PK10M-050PX-SMX-XX                              | PK10M-050PX-THX-XX                                     |   | 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                                    |

# 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  |

# 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                     |  |              |                               |
|-----------------------------|--|--------------|-------------------------------|
| SMT Vertical Plug Connector |  |              | SMT Vertical Socket Connector |
| Pos                         | Product Number<br>A = 2.0 mm<br>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       |                               |

# 3M™ Pak 20 Boardmount-to-Wiremount Connectors

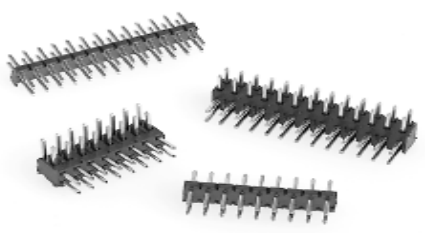

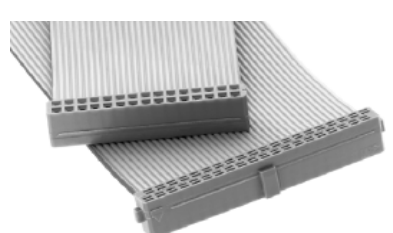
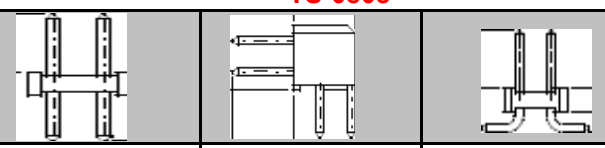
2 mm Boardmount Latch/Eject Headers and 2 mm Wiremount Sockets

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

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




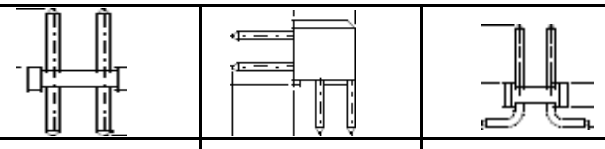
# 3M™ Pak 20 Boardmount-to-Wiremount Connectors

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). |   |  |   |  |   |
|---|---|--|---|--|---|
|                              |   |  |       |  |                      |
| <b>1512 Series</b><br><b>TS-0808</b>  |   |  | <b>1522 Series</b><br><b>TS-0523</b>  |  | <b>870 Series &amp; 2M Series</b><br><b>TS-0525 and TS-2150</b>   |
|                               |   |  | Preassembled<br>0 = Closed Cover/Even Row<br>1 = Open Cover<br>2 = Closed Cover/Odd Row |  | 870 Series Socket<br>Dimensions, TS-0525;<br>2M Series Molded Assembly,<br>TS-2150 for Assembly Options |
| 1512XX-8322-XX<br>1512XX-8422-XX  | 1512XX-7322-XX<br>1512XX-7422-XX  | 1512XX-2320-XX-XX<br>1512XX-2420-XX-XX | 152210-00XX-XX<br>152210-01XX-XX<br>152210-02XX-XX                                      |  | 2M XX XX - XXX -3625-XXX.X-XX-XX-X  |
| <b>Positions</b>  | 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). |   |  |   |  |   |
|---|---|--|---|--|---|
|                            |   |  |                         |  |                        |
| <b>1512 Series</b><br><b>TS-0808</b>  |   |  | <b>1532 Series</b><br><b>TS-0521</b>  |  | <b>1502 Series</b><br><b>TS-0519</b>  |
|                             |   |  | Through-Board<br>Surfacemount Socket<br>0 = without Location<br>2 = with Location Post                      |  | Surfacemount Version<br>Straight/Vertical Version<br>Right Angle Version                                    |
| 1512XX-8322-XX<br>1512XX-8422-XX  | 1512XX-7322-XX<br>1512XX-7422-XX  | 1512XX-2320-XX-XX<br>1512XX-2420-XX-XX | 1532XX-2000-XX-XX<br>1532XX-2200-XX-XX  |  | 1502XX-20X0-XX-XX = Surfacemount<br>1502XX-600X-XX = Straight/Vertical<br>1502XX-5XX2-XX = Right Angle      |
| <b>Positions</b>  | 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 |

# 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**

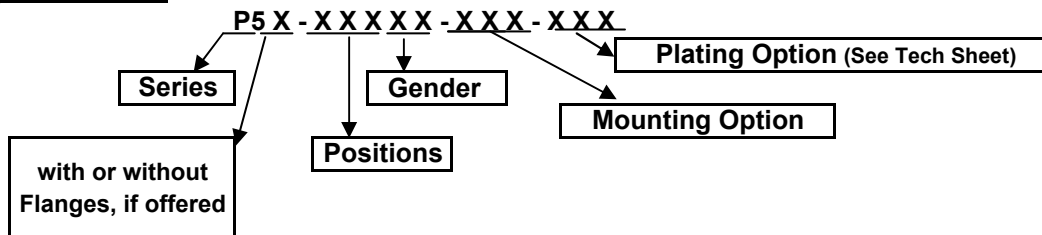
The 3M™ Pak 20 957631-30 Shunt is recommended for use with all 3M™ Shrouded and Pin Strip Headers.

# 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).





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

## Product Ordering Information:





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

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

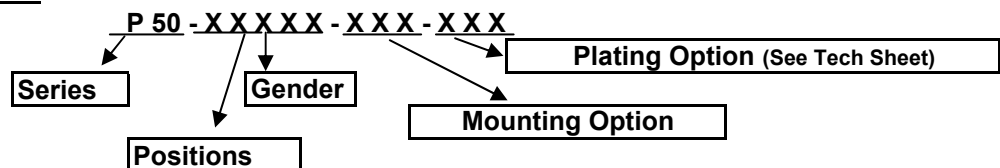
|   |   |   |  |   |
|---|---|---|--|---|
|  |  |    |  |   |
| <b>P50 Series</b><br><b>TS-2046</b>   | <b>P50 Series</b><br><b>TS-1162</b>   | <b>P50E Series</b><br><b>TS-1144</b>  | <b>P50 Series</b><br><b>TS-2047</b>  |   |
| <b>Vertical and Right Angle Boardmount Plug</b>                                   |   |   | <b>Mating Boardmount Socket</b>  |   |
| S1 = Straight, without Retention Clip<br>R1 = Straight, with Retention Clip       |   | SR1 = Right Angle, without Retention Clip<br>RR1 = Right Angle, with Retention Clip |  |   |
| <b>w / Flanges = P50</b><br><b>w/o Flanges = P51</b>                              | <b>with Flanges</b>   | <b>with Flanges</b>   | <b>with Flanges</b>  | <b>without Flanges</b>                          |
| <b>(each version mates to all socket options)</b>                                 |   |   | <b>(each version mates to all plug options)</b>                                    |   |
| P5X-XXXXP-S1-XXX<br>P5X-XXXXP-SR1-XXX<br>P5X-XXXXP-R1-XXX<br>P5X-XXXXP-RR1-XXX    | P50-XXXXP1-S1-XXX<br>P50-XXXXP1-SR1-XXX<br>-<br>P50-XXXXP1-RR1-XXX                | P50E-XXXXP1-S1-XXX<br>P50E-XXXXP1-SR1-XXX<br>-<br>P50E-XXXXP1-RR1-XXX               | P50-XXXXS-S1-XXX<br>P50-XXXXS-SR1-XXX<br>P50-XXXXS-R1-XXX<br>P50-XXXXS-RR1-XXX     | P51-XXXXS-S1-XXX<br>P51-XXXXS-SR1-XXX<br>-<br>- |
| <b>Positions</b>  | 20, 26, 30, 32, 34, 40, 50, 60, 80, 100   | 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).



|   |  |   |                    |
|---|--|---|--------------------|
|  |  |   |                    |
| <b>TS-2051</b>  | <b>TS-2052</b>   |   |                    |
| <b>P50 Series</b>   |  |   |                    |
| <b>Power Ground Pin</b>   | <b>Power Ground Pin</b>  |   |                    |
| <b>Boardmount Plug</b>  | <b>Mating Boardmount Socket</b>  |   |                    |
| <b>Straight</b>   | <b>Right Angle</b>   | <b>Straight</b>                                       | <b>Right Angle</b> |
| P50-XXXXPG-S1-XXX   | P50-XXXXPG-SR1-XXX   | P50-XXXXSG-S1-XXX                                     | P50-XXXXSG-SR1-XXX |
| <b>Positions: 20, 30, 32, 34, 40, 50, 60, 80, 100</b>                               |  | <b>Positions: 20, 30, 32, 34, 40, 50, 60, 80, 100</b> |                    |

## Product Ordering Information:



# 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).

|   |  |   |  |  |
|---|--|---|--|--|
|  |  |  |  | <p>Product options for both the plug and mating socket including body options and retention devices.</p> |
| <b>P50 Series</b>   |  |   |  |  |
| <b>TS-2049</b>  |  | <b>TS-2050</b>  |  |  |
| <b>Maxi-Mate Plug<br/>Vertical and Right Angle</b>                                |  | <b>Mating Maxi-Mate Socket<br/>Vertical and Right Angle</b>                       |  |  |
| (each version mates to all four versions of the socket)                           |  | (each version mates to all four versions of the plug)                             |  | <b>Product Description</b>   |
| P50-XXXP-S1-XXX<br>P50-XXXP-SR1-XXX<br>P50-XXXP-R1-XXX<br>P50-XXXP-RR1-XXX        |  | P50-XXXS-S1-XXX<br>P50-XXXS-SR1-XXX<br>P50-XXXS-R1-XXX<br>P50-XXXS-RR1-XXX        |  | Straight, with Flanges, without Retention Clip   |
|   |  |   |  | Right Angle, with Flanges, without Retention Clip  |
|   |  |   |  | Straight, without Flanges, with Retention Clip   |
|   |  |   |  | Right Angle, without Flanges, with Retention Clip  |
| <b>Positions: 120, 140, 160, 180, 100</b>   |  | <b>Positions: 120, 140, 160, 180, 100</b>   |  |  |

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

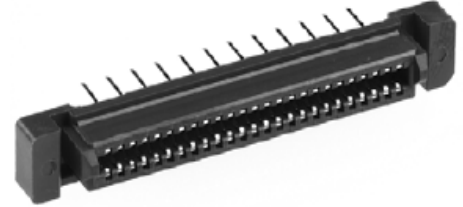
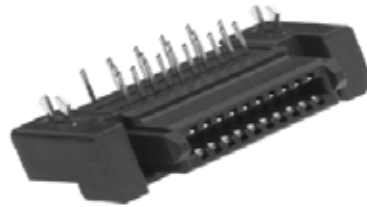
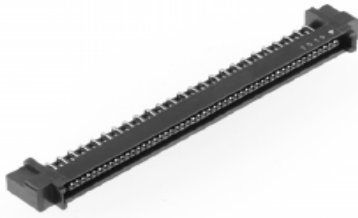
Four-Row Solder Tail Design

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

|   |                                      |  |                        |
|---|--------------------------------------|--|------------------------|
|  |                                      |  |                        |
| <b>P50L Series</b>  |                                      |  |                        |
| <b>TS-2056</b>  |                                      | <b>TS-2055</b>   |                        |
| <b>Pos</b>  | <b>Low Profile, Surfacement Plug</b> | <b>Low Profile, Surfacement Socket</b>   | <b>Mating Height</b>   |
| 20  | P50L-020-AS-DA                       | P50L-020-AS-DA<br>P50L-020-BS-DA   | AS = 7 mm<br>BS = 8 mm |
| 30  | P50L-030-AS-DA                       | P50L-030-AS-DA<br>P50L-030-BS-DA   | AS = 7 mm<br>BS = 8 mm |
| 40  | P50L-040-AS-DA                       | P50L-040-AS-DA<br>P50L-040-BS-DA   | AS = 7 mm<br>BS = 8 mm |
| 50  | P50L-050-AS-DA                       | P50L-050-AS-DA<br>P50L-050-BS-DA   | AS = 7 mm<br>BS = 8 mm |
| 60  | P50L-060-AS-DA                       | P50L-060-AS-DA<br>P50L-060-BS-DA   | AS = 7 mm<br>BS = 8 mm |
| 80  | P50L-080-AS-DA                       | P50L-080-AS-DA<br>P50L-080-BS-DA   | AS = 7 mm<br>BS = 8 mm |
| 100   | P50L-100-AS-DA                       | P50L-100-AS-DA<br>P50L-100-BS-DA   | AS = 7 mm<br>BS = 8 mm |
| 120   | P50L-120-AS-DA                       | P50L-120-AS-DA<br>P50L-120-BS-DA   | AS = 7 mm<br>BS = 8 mm |

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

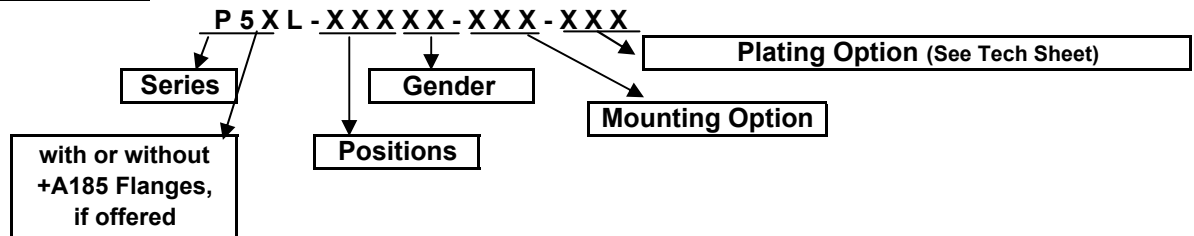
Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).



## 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<br>P50L-XXXP-RR3-XXX<br>P50L-XXXP-RR4-XXX<br>P50L-XXXP-RR5-XXX<br>P50L-XXXP-RR6-XXX<br>P50L-XXXP-RR7-XXX | 1.0 mm<br>1.5 mm<br>2.0 mm<br>2.5 mm<br>3.0 mm<br>4.0 mm | P50L-XXXS-RR1-XXX                               | P50L-XXXS-A-XXX<br>P50L-XXXS-B-XXX<br>P50L-XXXS-D-XXX | P51L-XXXS-A-XXX<br>P51L-XXXS-B-XXX<br>P51L-XXXS-D-XXX |
| <b>Positions:</b> 20, 30, 40, 50<br>60, 80, 100  |  | <b>Positions:</b> 20, 30, 40, 50<br>60, 80, 100 | <b>Positions:</b> 20, 30, 40, 50<br>60, 80, 100       |   |

### Product Ordering Information:

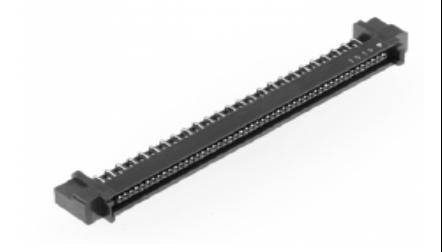

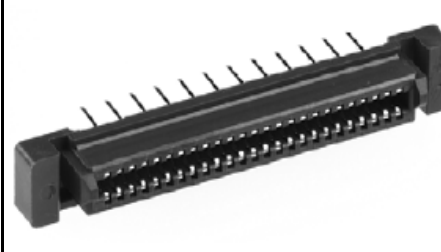


# 3M™ Pak 50 Low Profile Board-to-Board Connectors

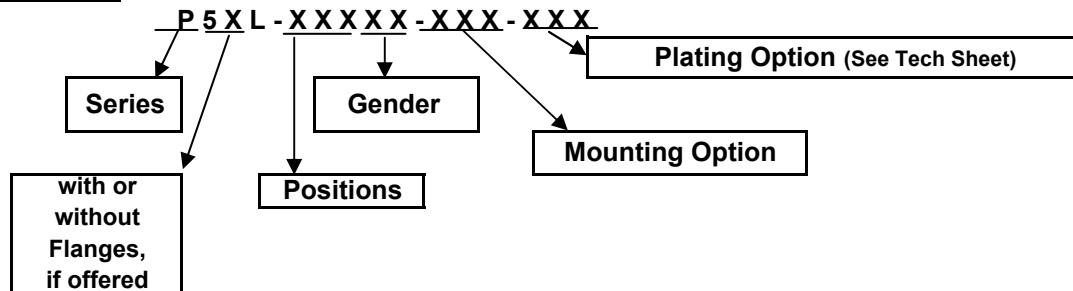
Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).

|  |  |  |  |
|--|---|--|---|
| P50L Series  |   |  |   |
| TS-1161  | TS-2053   |  | TS-1146   |
| Right Angle Stacking Plug w/Retention Clips                                      | Vertical Stacking Plug w/Retention Clips<br>With Flanges      Without Flanges     |  | Low Profile, Right Angle Stacking Socket  |
| P50L-XXXP-RR1-XXX  | P50L-XXXP-A-XXX<br>P50L-XXXP-B-XXX  | P51L-XXXP-A-XXX<br>P51L-XXXP-B-XXX   | P50L-XXX-RR1-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   | Low Profile, Right Angle Stacking Socket   | Low Profile, Vertical Stacking Socket<br>With Flanges      Without Flanges          |
| P50L-XXXP-RR2-XXX<br>P50L-XXXP-RR3-XXX<br>P50L-XXXP-RR4-XXX<br>P50L-XXXP-RR5-XXX<br>P50L-XXXP-RR6-XXX<br>P50L-XXXP-RR7-XXX | P50L-XXXS-RR1-XXX  | P50L-XXXS-A-XXX<br>P50L-XXXS-B-XXX<br>P50L-XXXS-D-XXX                               |
| Stand Off Height<br>1.0 mm<br>1.5 mm<br>2.0 mm<br>2.5 mm<br>3.0 mm<br>4.0 mm   |  | P51L-XXXS-A-XXX<br>P51L-XXXS-B-XXX<br>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:



# 3M™ Pak 50 Wiremount-to-Boardmount Connectors

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

|   |   |   |
|---|---|---|
|    |  |  |
| <p><b>P50E Series</b><br/><b>TS-1144</b></p>  | <p><b>P25E Series</b><br/><b>TS-1141</b></p>                                      | <p><b>P50E Series</b><br/><b>TS-1143</b></p>  |
| <p><b>Vertical and Right Angle Boardmount Plug</b></p>  | <p><b>Mating Wiremount Socket</b></p>   |   |
| <p>S1 = Straight, without Retention Clip<br/>SR1 = Right Angle, without Retention Clip<br/>RR1 = Right Angle, with Retention Clip</p> | <p>One single 30 AWG stranded cable is needed to terminate this connector.</p>    | <p>Two 28 AWG stranded cables are needed to terminate this connector.</p>           |
| <p>(each version mates to both Socket Options)</p>  | <p><b>.025" Pitch Flat Cable</b></p>  | <p><b>.050" Pitch Flat Cable</b></p>  |
| <p>P50E-020P1-S1-XXX<br/>P50E-020P1-SR1-XXX<br/>P50E-020P1-RR1-XXX</p>  | <p>P25E-020S-XX</p>   | <p>P50E-020S-XX</p>   |
| <p><b>Positions: 20, 30, 32, 40, 50, 60, 68, 80, 100</b></p>  | <p><b>Positions: 20, 30, 32, 40, 50, 60, 68, 80, 100</b></p>                      | <p><b>Positions: 20, 30, 32, 40, 50, 60, 68, 80, 100</b></p>                        |

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

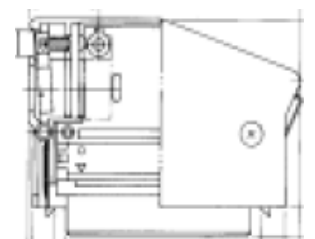
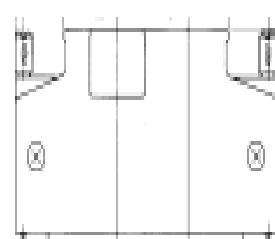
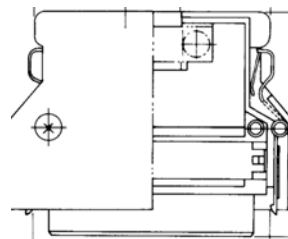
Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).



| 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<br>P50-XXX-MDS-XXX 28 AWG Laminated<br>P50-XXX-DDSC-XXX 30 AWG Discrete<br>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

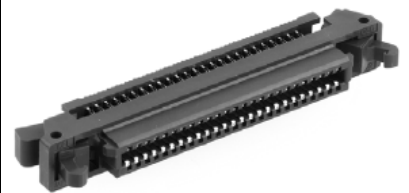
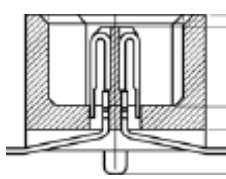
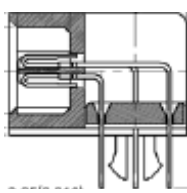
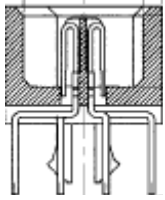
Note: All connector options and ordering information may be obtained from the technical data sheet (TS-XXXX).



| 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<br>P50-XXX-MDS-XXX 28 AWG Laminated<br>P50-XXX-DDSC-XXX 30 AWG Discrete<br>P50-XXX-MDSD-XXX 30 AWG Laminated |  | P50-XXX-XXX-XXXX                      | P50-100-STR-XXX     | P50-XXX-XXX-XXXX<br>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                     |

# 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<br>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                                       |

# 3M™ Pak 50 Board-to-Wiremount Connectors

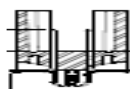
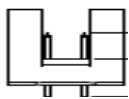
## 2-Row Solder Tail Design

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



**810 Series**  
**TS-0253**

**820 Series**  
**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<br>81020-550X03-XX<br>81020-560X03-XX                 | 81020-600X03-XX<br>81020-650X03-XX<br>81020-660X03-XX | 81020-600X03-XX-XX<br>81020-650X03-XX-XX<br>81020-660X03-XX-XX | 82020-6000-XX No Strain Relief<br>82020-6006-XX With Strain Relief |
| 26        | 81026-500X03-XX<br>81026-550X03-XX<br>81026-560X03-XX                 | 81026-600X03-XX<br>81026-650X03-XX<br>81026-660X03-XX | 81026-600X03-XX-XX<br>81026-650X03-XX-XX<br>81026-660X03-XX-XX | 82026-6000-XX No Strain Relief<br>82026-6006-XX With Strain Relief |
| 36        | 81036-500X03-XX<br>81036-550X03-XX<br>81036-560X03-XX                 | 81036-600X03-XX<br>81036-650X03-XX<br>81036-660X03-XX | 81036-600X03-XX-XX<br>81036-650X03-XX-XX<br>81036-660X03-XX-XX | 82036-6000-XX No Strain Relief<br>82036-6006-XX With Strain Relief |
| 40        | 81040-500X03-XX<br>81040-550X03-XX<br>81040-560X03-XX                 | 81040-600X03-XX<br>81040-650X03-XX<br>81040-660X03-XX | 81040-600X03-XX-XX<br>81040-650X03-XX-XX<br>81040-660X03-XX-XX | 82040-6000-XX No Strain Relief<br>82040-6006-XX With Strain Relief |
| 50        | 81050-500X03-XX<br>81050-550X03-XX<br>81050-560X03-XX                 | 81050-600X03-XX<br>81050-650X03-XX<br>81050-660X03-XX | 81050-600X03-XX-XX<br>81050-650X03-XX-XX<br>81050-660X03-XX-XX | 82050-6000-XX No Strain Relief<br>82050-6006-XX With Strain Relief |
| 60        | 81060-500X03-XX<br>81060-550X03-XX<br>81060-560X03-XX                 | 81060-600X03-XX<br>81060-650X03-XX<br>81060-660X03-XX | 81060-600X03-XX-XX<br>81060-650X03-XX-XX<br>81060-660X03-XX-XX | 82060-6000-XX No Strain Relief<br>82060-6006-XX With Strain Relief |
| 68        | 81068-500X03-XX<br>81068-550X03-XX<br>81068-560X03-XX                 | 81068-600X03-XX<br>81068-650X03-XX<br>81068-660X03-XX | 81068-600X03-XX-XX<br>81068-650X03-XX-XX<br>81068-660X03-XX-XX | 82068-6000-XX No Strain Relief<br>82068-6006-XX With Strain Relief |
| 80        | 81080-500X03-XX<br>81080-550X03-XX<br>81080-560X03-XX                 | 81080-600X03-XX<br>81080-650X03-XX<br>81080-660X03-XX | 81080-600X03-XX-XX<br>81080-650X03-XX-XX<br>81080-660X03-XX-XX | 82080-6000-XX No Strain Relief<br>82080-6006-XX With Strain Relief |
| 100       | 81100-500X03-XX<br>81100-550X03-XX<br>81100-560X03-XX                 | 81100-600X03-XX<br>81100-650X03-XX<br>81100-660X03-XX | 81100-600X03-XX-XX<br>81100-650X03-XX-XX<br>81100-660X03-XX-XX | 82100-6000-XX No Strain Relief<br>82100-6006-XX With Strain Relief |

# 3M™ Pak 50 Board-to-Wiremount Connectors

4-Row Solder Tail Design

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

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

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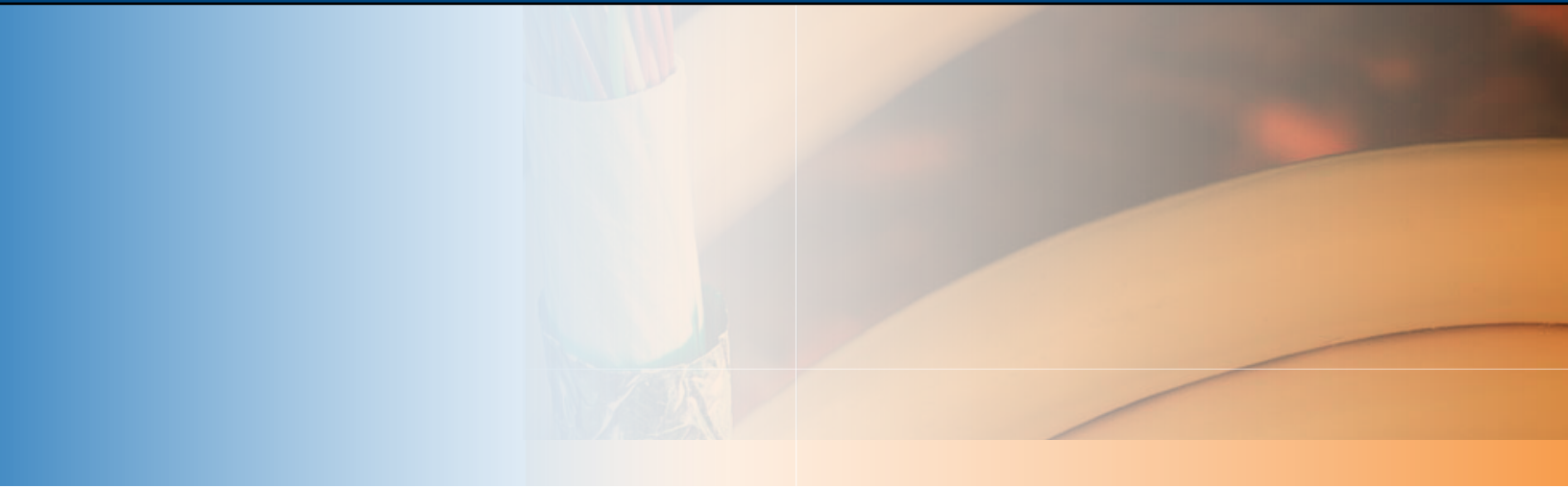
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