

# Board-to-Board Connectors

Socket side: **WP3 - S###VA1 - R6000**  
Pin side: **WP3 - P###VA1 - R6000**

Orderable in Reels of 6000

Socket side: **WH1S###WA1-E6000**  
Pin side: **WH1P###WA1-E6000**

Orderable in Reels of 6000

Receptacle: **KX14 - ##K 2 DE**

Stack Height:  
2, 5, 8mm

Straight Plug: **KX15 - ##K 3 DE**

Stack Height:  
2, 4mm

R/A Plug: **KX15 - ##K 1 DLE**

Right angle

For pin counts below 30

Socket side: **WP7A - S###VA1 - R6000**  
Pin side: **WP7 - P###VA1 - R6000**

For pin counts above 30

Socket side: **WP7B - S###VA1 - R6000**  
Pin side: **WP7B - P###VA1 - R6000**

Orderable in Reels of 6000

Socket side: **AA01A - S###VA1 - R3000**  
Pin side: **AA01A - P###VA1 - R3000**

Orderable in Reels of 3000

Receptacle: **KX24 - ###R - LT - H1**  
Plug: **KX25 - ###P - LT - H1**

LT: Right-angle  
6ST: Straight

H: Hook pin

Socket side: **WR - ###S - VF - N1**

B: Positioning Boss

H05: +0.5mm  
H30: +3.0mm

Vert Pin side: **WR - ###P - VF - N1**

B: Positioning Boss

50: +1.0mm  
60: +2.0mm

R/A Pin side: **WR - ###P - HF - HD - A1E**

Receptacle: **TX24 - ###R - LT - H1E**  
Plug: **TX25 - ###P - LT - H1E**

Stacking Height:  
Receptacle:  
6, 10, 12mm  
Plug:  
6, 8, 12mm

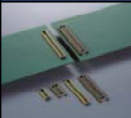
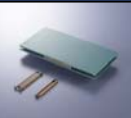
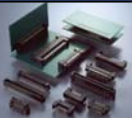
\*Right-angle leave blank

H: Hook pin  
N: No hook pin

LT: Right angle  
ST: Straight

Socket side: **WP9 - S###VA1 - R6000**  
Pin side: **WP9 - P###VA1 - R6000**

Orderable in Reels of 6000

| Series                  | WP3                                                                               | WP7                                                                                  | WP9                                                                               | WH1                                                                               | AA01A                                                                             | WR                                                                                 | KX14/15                                                                             | KX24/25                                                                             | TX24/25                                                                             |
|-------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Photo                   |  |     |  |  |  |  |  |  |  |
| Pitch                   | 0.4mm                                                                             | 0.4mm                                                                                | 0.4mm                                                                             | 0.4mm                                                                             | 0.5mm                                                                             | 0.5mm                                                                              | 0.8mm                                                                               | 0.8mm                                                                               | 1.27mm                                                                              |
| Stacking Heights        | 1.0mm                                                                             | 0.7mm                                                                                | 0.8mm                                                                             | 1.0mm                                                                             | 1.5mm                                                                             | 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 8.0, 9.0mm                                      | 5.0, 6.0, 8.0, 9.0, 11.0, 12.0mm                                                    | N/A                                                                                 | 12.0-24.0mm (±2.0mm)                                                                |
| Pin Count (Parallel)    | 16,20,22,24, 30,36,40,42, 50, 64,70,80                                            | 10,20,26,30, 50,70                                                                   | 10,14,20,24, 30,32                                                                | 24,30,40,50                                                                       | 10,30,40,60                                                                       | 20,30,40,50, 60,70,80,100, 120,160                                                 | 20,30,40,50 60,70,80                                                                | 80,100,120, 140,180 (coplanar)                                                      | 30,40,50, 60, 80,100,120                                                            |
| Pin Count (Right Angle) | N/A                                                                               | N/A                                                                                  | N/A                                                                               | N/A                                                                               | N/A                                                                               | 30,40,50,60, 70,80,120                                                             | 20,30,40,50, 60,70,80                                                               | 80,100,120, 140,180                                                                 | 30,40,44,50, 60,80,100,120                                                          |
| Board Mount             | SMT                                                                               | SMT                                                                                  | SMT                                                                               | SMT                                                                               | SMT                                                                               | SMT                                                                                | SMT                                                                                 | Thru-hole                                                                           | Thru-hole                                                                           |
| Current Rating          | 0.4A                                                                              | 0.2A                                                                                 | 0.3A                                                                              | 0.4A                                                                              | 0.2A                                                                              | 0.3A                                                                               | 0.5A                                                                                | 0.5A                                                                                | 1.0A                                                                                |
| Voltage Rating          | 50VAC<br>50VDC                                                                    | 50VAC<br>50VDC                                                                       | 50VAC<br>50VDC                                                                    | 50VAC<br>50VDC                                                                    | 50VAC<br>50VDC                                                                    | 200VAC<br>300VDC                                                                   | 200VAC<br>300VDC                                                                    | 200VAC                                                                              | 250VAC                                                                              |
| Durability              | 50 cycles                                                                         | 50 cycles                                                                            | 50 cycles                                                                         | 50 cycles                                                                         | 30 cycles                                                                         | 500 cycles                                                                         | 500 cycles                                                                          | 500 cycles                                                                          | 500 cycles                                                                          |
| Features                | High retention force.                                                             | High retention force for low pin counts and low insertion force for high pin counts. | Small connector width helps reduce board mounting space.                          | Two point contact to resist twisting stress.                                      | Dual mating contact.                                                              | 9 different vertical stack heights.                                                | Mating guide for orientating contacts. Key to prevent mismatching.                  | Robust mating guide. Click response when mated.                                     | Ribbon type contacts ensures reliable electrical continuity.                        |