

| SERIES                                                                                                                                     | PINS PER ROW                                                                                                                            | WIRE GAUGE                                                                | PLATING OPTION                                                          | ASSEMBLY LENGTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | END OPTION                                            | K                                    | LATCH OPTION                                                                      |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------|-------|---|-------|---|-----|---|--------|---|--------|---|-------|---|------|---|--------|---|------|---|-------|----|-------|-----|--------|--|--|--|--|
| <b>MMSD</b><br>= Double Row PVC Cable                                                                                                      | <b>-02, -03,</b><br><b>-04, -05,</b><br><b>-06, -08,</b><br><b>-10, -12,</b><br><b>-15, -16,</b><br><b>-20, -25</b><br>(Standard sizes) | <b>-20</b><br><b>-20C</b><br>= Color<br>Coded Cable<br>(MMSD & MMSS only) | <b>-F</b><br>= Gold<br>flash on<br>contact,<br>Tin on tail              | <b>-"XX.XX"</b><br>= Assembly<br>Length in<br>Inches<br>(82.55 mm)<br>03.25" min.                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>-S</b><br>= Single<br>Ended                        | <b>-K</b><br>= Keyed<br>Polarization | (Metal latches for more<br>rugged environments;<br>-02, -05 & -10 positions only) |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| <b>MMSDT</b><br>= Double Row Blue *Teflon™<br>Fluoropolymer Cable<br>(20, 24, 28, 30 AWG only)                                             |                                                                                                                                         |                                                                           | <b>-L</b><br>= 10 μ"<br>(0.25 μm)<br>Gold on<br>contact,<br>Tin on tail |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>-D</b><br>= Double<br>Ended<br>(Latch<br>Required) |                                      | <b>-M</b><br>= Single Ended, Metal Latches<br>(Leave blank for plastic)           |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| <b>MMSS</b><br>= Single Row PVC Cable                                                                                                      |                                                                                                                                         | <b>-22, -24</b>                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      | Double Ended (-D) Crossed<br>requires MMSD/MMSDT                                  |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| <b>MMSST</b><br>= Single Row Blue *Teflon™<br>Fluoropolymer Cable<br>(20, 24, 28, 30 AWG)                                                  |                                                                                                                                         | <b>-24C</b><br>= Color<br>Coded Cable<br>(MMSD & MMSS only)               |                                                                         | <table><tr><th colspan="2">-20C, -24C, -28C<br/>CABLE COLOR<br/>CODING</th></tr><tr><th>PIN</th><th>COLOR</th></tr><tr><td>1</td><td>BROWN</td></tr><tr><td>2</td><td>RED</td></tr><tr><td>3</td><td>ORANGE</td></tr><tr><td>4</td><td>YELLOW</td></tr><tr><td>5</td><td>GREEN</td></tr><tr><td>6</td><td>BLUE</td></tr><tr><td>7</td><td>VIOLET</td></tr><tr><td>8</td><td>GRAY</td></tr><tr><td>9</td><td>WHITE</td></tr><tr><td>10</td><td>BLACK</td></tr><tr><td>ETC</td><td>REPEAT</td></tr></table> | -20C, -24C, -28C<br>CABLE COLOR<br>CODING             |                                      | PIN                                                                               | COLOR | 1 | BROWN | 2 | RED | 3 | ORANGE | 4 | YELLOW | 5 | GREEN | 6 | BLUE | 7 | VIOLET | 8 | GRAY | 9 | WHITE | 10 | BLACK | ETC | REPEAT |  |  |  |  |
| -20C, -24C, -28C<br>CABLE COLOR<br>CODING                                                                                                  |                                                                                                                                         |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| PIN                                                                                                                                        | COLOR                                                                                                                                   |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| 1                                                                                                                                          | BROWN                                                                                                                                   |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| 2                                                                                                                                          | RED                                                                                                                                     |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| 3                                                                                                                                          | ORANGE                                                                                                                                  |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| 4                                                                                                                                          | YELLOW                                                                                                                                  |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| 5                                                                                                                                          | GREEN                                                                                                                                   |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| 6                                                                                                                                          | BLUE                                                                                                                                    |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| 7                                                                                                                                          | VIOLET                                                                                                                                  |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| 8                                                                                                                                          | GRAY                                                                                                                                    |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| 9                                                                                                                                          | WHITE                                                                                                                                   |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| 10                                                                                                                                         | BLACK                                                                                                                                   |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| ETC                                                                                                                                        | REPEAT                                                                                                                                  |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      |                                                                                   |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
| <b>MMSD, MMSDT,<br/>MMSS, MMSST</b><br><b>Board Mates:</b><br>IPL1<br>(Does not mate with IPT1)<br><b>Cable Mates:</b><br>MMTD(T), MMTS(T) |                                                                                                                                         | <b>-26, -28</b>                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      | <b>-LUS</b><br>= Plastic Latch up, straight                                       |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
|                                                                                                                                            |                                                                                                                                         | <b>-28C</b><br>= Color<br>Coded Cable<br>(MMSD & MMSS only)               |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      | <b>-LDS</b><br>= Plastic Latch down, straight                                     |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
|                                                                                                                                            |                                                                                                                                         | <b>-30</b>                                                                |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      | <b>-LUX</b><br>= Plastic Latch up, crossed                                        |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
|                                                                                                                                            |                                                                                                                                         |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      | <b>-LDX</b><br>= Plastic Latch down, crossed                                      |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
|                                                                                                                                            |                                                                                                                                         |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      | <b>-MUS</b><br>= Metal Latch up, straight                                         |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
|                                                                                                                                            |                                                                                                                                         |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      | <b>-MDS</b><br>= Metal Latch down, straight                                       |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
|                                                                                                                                            |                                                                                                                                         |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      | <b>-MUX</b><br>= Metal Latch up, crossed                                          |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |
|                                                                                                                                            |                                                                                                                                         |                                                                           |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |                                      | <b>-MDX</b><br>= Metal Latch down, crossed                                        |       |   |       |   |     |   |        |   |        |   |       |   |      |   |        |   |      |   |       |    |       |     |        |  |  |  |  |

Assembly Length  
± (3.18)  
.125

No. of positions  
x (2.54) .100  
+ (1.40) .055

(8.97)  
.353

**Insulator Material:**  
Nylon 66

**Contact Material:**  
Phosphor Bronze

**Plating:** Au or Sn over  
50 μ" (1.27 μm) Ni

**Operating Temp Range:**  
-10 °C to +80 °C (PVC)  
-40 °C to +125 °C (\*Teflon™)

**Current Rating:**  
4.8 A (2 pins powered)

**Voltage Rating:**  
275 VAC/389 VDC

\*Teflon™ is a trademark of The Chemours Company FC, LLC used under license by Samtec.

Teflon™ Fluoropolymer cable is intended for crimp only. Contact Samtec for solderable cable applications.

### SPECIFICATIONS

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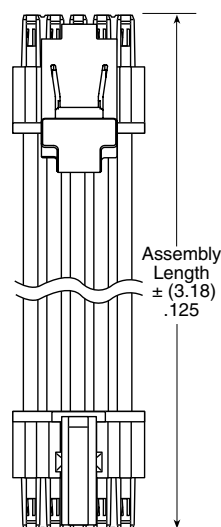
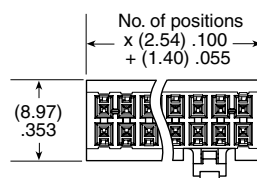
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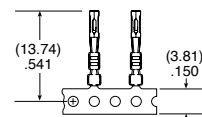
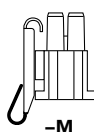
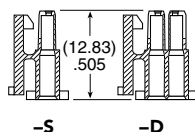
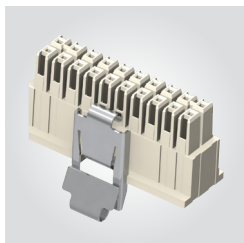
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View complete specifications at: [samtec.com?MMSD](http://samtec.com?MMSD), [samtec.com?MMSDT](http://samtec.com?MMSDT), [samtec.com?MMSS](http://samtec.com?MMSS) & [samtec.com?MMSST](http://samtec.com?MMSST)

| IPD1 | POSITIONS PER ROW                                                                                                   | ROW OPTION                   | K                                    | LATCH OPTION                                                                                                                                         | SERIES                                                             | WIRE GAUGE                     | 01 | PLATING OPTION                                                          |
|------|---------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------|----|-------------------------------------------------------------------------|
|      | <b>-02, -03, -04,</b><br><b>-05, -06, -08,</b><br><b>-10, -12, -15,</b><br><b>-16, -20, -25</b><br>(Standard sizes) | <b>-S</b><br>= Single<br>Row | <b>-K</b><br>= Keyed<br>Polarization | <b>-M</b><br>= Metal Latch<br>(Metal for<br>more rugged<br>environments)<br>(-02, -05 & -10<br>positions only)<br>(Leave blank for<br>plastic latch) | <b>CC79L</b><br>= Contact, Loose                                   | <b>-2630</b><br>= 26 to 30 AWG |    | <b>-F</b><br>= Gold flash<br>on contact,<br>Tin on tail                 |
|      |                                                                                                                     | <b>-D</b><br>= Double<br>Row |                                      |                                                                                                                                                      | <b>CC79R</b><br>= Contact, Full Reel<br>(12,000 Parts per<br>Reel) | <b>-2024</b><br>= 20 to 24 AWG |    | <b>-L</b><br>= 10 μ"<br>(0.25 μm)<br>Gold on<br>contact,<br>Tin on tail |



### TOOLING

**Note:**  
Some lengths,  
styles and  
options are  
non-standard,  
non-returnable.

Hand Tool: CAT-HT-179-2030-13 (20-30 AWG)

Mini Applicator: CAT-MC-179-2024-XX-01 (20-24 AWG)

Mini Applicator: CAT-MC-179-2630 XX-01 (26-30 AWG)

Extraction Tool: CAT-EX-179-01

View complete specifications at: [samtec.com?IPD1](http://samtec.com?IPD1), [samtec.com?CC79L](http://samtec.com?CC79L) & [samtec.com?CC79R](http://samtec.com?CC79R)