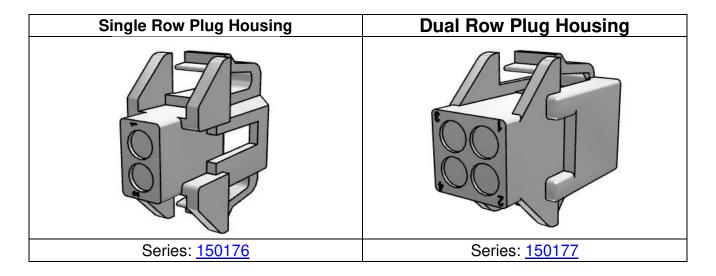
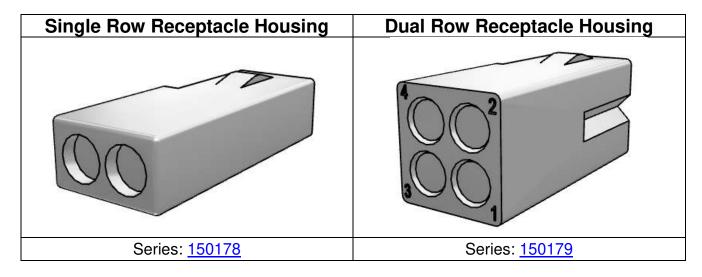


# STANDARD .062"+ WIRE TO WIRE CONNECTOR SYSTEM





**STANDARD .062"+ Connector System Web Page** 



| REVISION:        | ECM INFORMATION:       | TITLE:       |              |                       |             |       | SHEET No.             |  |
|------------------|------------------------|--------------|--------------|-----------------------|-------------|-------|-----------------------|--|
| B2               | EC No: 666346          | F            | PROD         | UCT SPEC STANI        |             | TW    | <b>1</b> of <b>14</b> |  |
|                  | DATE: 06/08/2021202    |              | CONNECTOR    |                       |             |       |                       |  |
| DOCUMENT NUMBER: |                        | DOC<br>TYPE: | DOC<br>PART: | CREATED / REVISED BY: | CHECKED BY: | APPRO | VED BY:               |  |
| 1501760001-PS    |                        | PS           | 000          | SMAHAJANSHET          | NCSR        | NC    | SR                    |  |
| TEMPI ATE EII EI | VAME: 1703070003 REV A |              |              |                       |             |       |                       |  |



| Male Crimp Terminal   | Female Crimp Terminal |
|-----------------------|-----------------------|
|                       |                       |
| Series: <u>150180</u> | Series: <u>150181</u> |

STANDARD .062"+ Connector System Web Page



| REVISION:        | ECM INFORMATION:       | TITLE:       |                                  |                       |                       |       | SHEET No. |
|------------------|------------------------|--------------|----------------------------------|-----------------------|-----------------------|-------|-----------|
| B2               | EC No: 666346          | F            | PRODUCT SPEC STANDARD .062"+ WTW |                       |                       |       |           |
|                  | CONNECTOR              |              |                                  |                       | <b>2</b> of <b>14</b> |       |           |
| DOCUMENT NUMBER: |                        | DOC<br>TYPE: | DOC<br>PART:                     | CREATED / REVISED BY: | CHECKED BY:           | APPRO | VED BY:   |
| 1501760001-PS    |                        | PS           | 000                              | SMAHAJANSHET          | NCSR                  | NC    | CSR       |
| TEMPLATE FILE    | NAME: 1703070003 REV A |              |                                  |                       |                       |       |           |

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| DO               | EC No: 666346          | F            | PRODUCT SPEC STANDARD .062"+ WTW CONNECTOR |                       |             |       |           |
| B2               | DATE: 06/08/2021202    |              |  |                       |             |       |           |
| DOCUMENT NUMBER: |                        | DOC<br>TYPE: | DOC<br>PART:                               | CREATED / REVISED BY: | CHECKED BY: | APPRO | VED BY:   |
| 1501760001-PS    |                        | PS           | 000  | SMAHAJANSHET          | NCSR        | NC    | SR        |
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### 1.0 SCOPE

This Product Specification covers the 3.68 mm centerline (pitch) Wire to Wire connector system terminated with 16 to 22 AWG wire using crimp technology.

### 2.0 PRODUCT DESCRIPTION

### 2.1 DESCRIPTION, SERIES NUMBER, AND LINKS

| DESCRIPTION                   | SERIES<br>NUMBER |
|-------------------------------|------------------|
| Single Row Plug Housing       | <u>150176</u>    |
| Dual Row Plug Housing         | <u>150177</u>    |
| Single Row Receptacle Housing | <u>150178</u>    |
| Dual Row Receptacle Housing   | <u>150179</u>    |
| Male Crimp Terminal           | <u>150180</u>    |
| Female Crimp Terminal         | <u>150181</u>    |

### 2.2 DIMENSIONS, MATERIALS, PLATINGS

Refer SD-150180-0001 for Male terminal and SD-150181-0001 for Female terminal and SD-150176-001 for (Single row plug housing), SD-150177-001for (Dual row plug housing), SD-150178-001 for (Single row receptacle housing) and SD-150179-001 for (Dual row receptacle housing).

### 2.3 ENVIRONMENTAL CONFORMANCE

To find product compliance information:

- a. Go to molex.com
- b. Enter the part number in the search field.
- c. At the bottom of the page go to "Environmental" to see compliance status.

### 2.4 SAFETY AGENCY LISTINGS

UL File Number: E29179

### 3.0 APPLICABLE DOCUMENTS AND SPECIFICATION

### 3.1 MOLEX DOCUMENTS

TEMPLATE FILENAME: 1703070003 REV A

Molex Quality Crimping Handbook Order No. 63800-0029

Molex Solderability Specification SMES-152

Molex Heat Resistance Specification AS-40000-5013

Molex Moisture Technical Advisory AS-45499-001

Molex Package Handling Specification 454990100-PK

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| DO               | EC No: 666346           | F            | PROD         | UCT SPEC STANI        | DARD .062"+ W | /TW   | <b>4</b> of <b>14</b> |  |
| B2               | DATE: 06/08/2021202     |              | CONNECTOR    |                       |               |       |                       |  |
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Application Tooling Specification Sheet 16 AWG- UL1061: ATS-639036100 Application Tooling Specification Sheet 18 AWG- UL1061: ATS-639036200 Application Tooling Specification Sheet 18 AWG- UL1007: ATS-639036100 Application Tooling Specification Sheet 20 AWG- UL1061: ATS- 639036400 Application Tooling Specification Sheet 22 AWG- UL1061: ATS- 639036500 Application Tooling Specification Sheet 20-22 AWG- UL1007: ATS- 639036300 Refer section 7.0 for Environmental Test Sequences ATS – Application Tooling Specification\*

### 3.2 INDUSTRY DOCUMENTS

EIA-364-1000 UL-60950-1

### 4.0 ELECTRICAL PERFORMANCE RATINGS

#### 4.1 VOLTAGE

250 Volts AC (RMS) or DC.

### 4.2 APPLICABLE WIRES

| AWG | Outside insulation diameter |              |  |  |  |
|-----|-----------------------------|--------------|--|--|--|
| AWG | UL1007                      | UL1061       |  |  |  |
| 16  | NA                          | 2.02mm ± 0.1 |  |  |  |
| 18  | 2.10mm ± 0.1                | 1.70mm ± 0.1 |  |  |  |
| 20  | 1.80mm ± 0.1                | 1.46mm ± 0.1 |  |  |  |
| 22  | 1.60mm ± 0.1                | 1.28mm ± 0.1 |  |  |  |

Note: Above mentioned wire outer diameter is for reference. Refer Application spec for details.

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PS

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**NCSR** 



**NCSR** 

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|------------------|---------------------|--------------|--------------|-----------------------|----------------|-------|-----------------------|
| DΩ               | EC No: 666346       | F            | PROD         | UCT SPEC STAN         | DARD .062''+ W | 'TW   | E of 1/1              |
| 02               | DATE: 06/08/2021202 |              |              | CONNEC                | TOR            |       | <b>5</b> of <b>14</b> |
| DOCUMENT NUMBER: |                     | DOC<br>TYPE: | DOC<br>PART: | CREATED / REVISED BY: | CHECKED BY:    | APPRO | VED BY:               |

**SMAHAJANSHET** 

<sup>\*</sup>Application Tooling Specification for terminals is not provided in this document. ATS for terminals can be available from respective terminal part number page in Molex.com

<sup>\*</sup> This connector voltage meets the connector level provided by the safety agency. For application voltage requirements per UL-60950 or other standards, the creepage & clearance also needs to be determined based upon pads/traces on the PCB.



### 4.3 CURRENT RATINGS\*

Ratings shown below represent maximum current carrying capacity of a fully loaded connector with all circuits powered using UL1061/UL1007 stranded wire. Ratings are based on a 30 °C maximum temperature rise limit over ambient (see section 5.1.4 for specification) without derating. Current is dependent on connector size, ambient temperature, and related factors. Actual current rating is application dependent and should be evaluated for each use.

| AWG | 1 CIRCUIT | 2 CIRCUIT | 3 CIRCUIT | 4 CIRCUIT | 6 CIRCUIT | 8 CIRCUIT | 10 CIRCUIT |
|-----|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| 16  | 11.5 A*   | 11.5 A    | 10 A*     | 9 A*      | 8.5 A     | 8.0 A*    | 7.5 A      |
| 18  | 8.5 A*    | 8.5 A*    | 7 A*      | 6.5 A*    | 6.5 A*    | 6.0 A*    | 6.0 A*     |
| 20  | 7.5 A*    | 7.5 A*    | 6 A*      | 5.5 A*    | 5.5 A*    | 5.0 A*    | 5.0 A*     |
| 22  | 6.5 A*    | 6.5 A     | 5.5 A*    | 5.0 A*    | 5.0 A     | 4.5 A*    | 4.5 A      |

Interpolated values

### 4.4 TEMPERATURE

Operating Temperature Range\* (includes T-Rise from applied current): - 40°C to + 105°C

### 4.5 DURABILITY

| Plating Type | Number of Cycles |
|--------------|------------------|
| Tin Plated   | 25               |

As tested in accordance with EIA-364-1000 test method (see section 6.2 item 3 of this specification). Durability per EIA-364-09

### 5.0 QUALIFICATION

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Laboratory condition, sample selection and test sequences are in accordance with EIA-364-1000.

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| B2               | EC No: 666346           | F            | PROD         | UCT SPEC STANI        | DARD .062"+ W | /TW   | <b>6</b> of <b>14</b> |  |
|                  | DATE: 06/08/2021202     |              | CONNECTOR    |                       |               |       |                       |  |
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| 1501760001-PS    |                         | PS           | 000          | SMAHAJANSHET          | NCSR          | NO    | SR                    |  |



#### 6.0 **PERFORMANCE**

#### 6.1 **ELECTRICAL PERFORMANCE**

| ITEM  | DESCRIPTION   | TEST CONDITION   | REQUIREMENT   |
|-------|---|--|---|
| 6.1.1 | Contact Resistance<br>(Low Level)                         | Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA. EIA-364-23C   | 10 milliohms<br>MAXIMUM<br>[initial]                |
| 6.1.2 | Insulation<br>Resistance                                  | Mate connectors: Apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.  EIA-364-21C   | 1000 Megohms<br>MINIMUM                             |
| 6.1.3 | Dielectric<br>Withstanding<br>Voltage                     | Apply a voltage of 1500 VAC for 1 minute between adjacent terminals and between terminals to ground.  EIA-364-20D  | No breakdown.<br>current leakage < 5 mA             |
| 6.1.4 | Temperature<br>Rise                                       | Mate connectors: measure the temperature rise at the rated current EIA-364-70 Method 2   | Temperature rise:<br>+30°C MAXIMUM<br>Above ambient |
| 6.1.5 | Temperature Rise<br>(18day Current<br>Cycling) EIA-364-55 | Mate connectors: measure the temperature rise at the rated current after: 1) 96 hours (steady state) 2) 240 hours (45 minutes ON and 15 minutes OFF per hour) 3) 96 hours (steady state) | Temperature rise: +30°C<br>MAXIMUM                  |

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| B2            | PRODUCT SPEC STANDARD .062"+ WTW |              |              |                       |             |       | <b>7</b> of <b>14</b> |
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| DOCUMEN       | IT NUMBER:                       | DOC<br>TYPE: | DOC<br>PART: | CREATED / REVISED BY: | CHECKED BY: | APPRO | VED BY:               |
| 1501760001-PS |                                  | PS           | 000          | SMAHAJANSHET          | NCSR        | NO    | CSR                   |



#### 6.2 **MECHANICAL PERFORMANCE**

| ITEM  | DESCRIPTION                                      | TEST CONDITION   | REQUIREMENT   |
|-------|--|--|---|
| 6.2.1 | Connector mate and<br>Unmate forces<br>(initial) | Mate and unmate connector (male to female) at a rate of 25 $\pm$ 6 mm (1 $\pm$ $\frac{1}{4}$ inch) per minute. EIA-364-13E                           | Mate force: 9 N/circuit<br>maximum and<br>Un mate force:4.5<br>N/circuit minimum                            |
| 6.2.2 | Terminal<br>Retention Force<br>(in Housing)      | Axial pullout force on the terminal in the housing at a rate of 25 $\pm$ 6 mm (1 $\pm$ ½ inch) per minute.   | 50N<br>MINIMUM retention force<br>(Derived based on actual<br>terminal check)                               |
| 6.2.3 | Durability<br>EIA-364-1000<br>Test Group-7       | Insert and withdraw connectors 25 times at a maximum rate of 10 cycles per minute prior to environmental tests.                                      | Contact Resistance 10 milliohms MAXIMUM (change from initial) & Visual: No Damage                           |
| 6.2.4 | Vibration<br>(Random)<br>Test Group-3            | Mate connectors and vibrate per EIA 364-28, test condition VII. Letter D. (Acceleration 3.1 g)   | 10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond                                  |
| 6.2.5 | Shock<br>(Mechanical)<br>Test Group-3            | Mate connectors and shock at 50 g's with ½ sine wave (11 milliseconds) shocks in the ±X, ±Y, ±Z axes (18 shocks total). EIA-364-27, Test Condition A | 10 milliohms MAXIMUM (change from initial]) & Discontinuity < 1 microsecond                                 |
| 6.2.6 | Wire<br>Pullout Force<br>(Axial)                 | Apply an axial pullout force on the wire at a rate of 25 $\pm$ 6 mm (1 $\pm$ $\frac{1}{4}$ inch) as Per EIA-364-08                                   | MINIMUM pullout forces<br>16 AWG - 89 N<br>18 AWG - 89 N<br>20 AWG - 36 N<br>22 AWG - 36 N<br>(Per UL 1977) |
| 6.2.7 | Terminal<br>Insertion Force<br>(into Housing)    | Apply an axial insertion force on the terminal at a rate of 25 $\pm$ 6 mm (1 $\pm$ $\frac{1}{4}$ inch).  | 11 N<br>Maximum   |

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| B2            | EC No: 666346          | F      | PRODUCT SPEC STANDARD .062"+ WTW |                       |             |       |           |  |
|               | DATE: 06/08/2021202    |        | CONNECTOR                        |                       |             |       |           |  |
| DOCUMEN       | DOCUMENT NUMBER:       |        | DOC<br>PART:                     | CREATED / REVISED BY: | CHECKED BY: | APPRO | VED BY:   |  |
| 1501760001-PS |                        | PS     | 000                              | SMAHAJANSHET          | NCSR        | NC    | CSR       |  |
| TEMPLATE FILE | NAME: 1703070003 REV A |        |                                  |                       |             |       |           |  |



| 6.2 M  | 6.2 MECHANICAL PERFORMANCE (CONT.)  |   |                        |  |  |  |  |  |  |  |  |  |
|--------|-------------------------------------|---|------------------------|--|--|--|--|--|--|--|--|--|
| ITEM   | DESCRIPTION                         | TEST CONDITION  | REQUIREMENT            |  |  |  |  |  |  |  |  |  |
| 6.2.8  | Panel Insertion<br>Forces           | Insert the connector at a rate of 25 $\pm$ 6 mm (1 $\pm$ ½ inch) per minute.                                  | 52 N Max.              |  |  |  |  |  |  |  |  |  |
| 6.2.9  | latch Retention force<br>with Panel | Insert the connector in to panel and pull at a rate of 25 $\pm$ 6 mm (1 $\pm$ $\frac{1}{4}$ inch) per minute. | 200 N Min              |  |  |  |  |  |  |  |  |  |
| 6.2.10 | Impact<br>Housings                  | Drop the housings from 1meter height.   | No Breakage, No Damage |  |  |  |  |  |  |  |  |  |

#### 6.3 **ENVIRONMENTAL PERFORMANCE**

| ITEM  | DESCRIPTION                     | TEST CONDITION  | REQUIREMENT   |
|-------|---------------------------------|---|---|
| 6.3.1 | Temperature Life<br>Group-1     | See next page for the test condition details  | 10 milliohms MAXIMUM<br>(change from initial])<br>&<br>Visual: No Damage  |
| 6.3.2 | Shock<br>(Thermal)<br>Group 2   | Mate connectors; expose to 5 cycles of:  Temperature °C Duration (Minutes)  -55 +0/-3 30  +25 ±10 5 MAXIMUM  +85 +3/-0 30  +25 ±10 5 MAXIMUM  | 10 milliohms MAXIMUM<br>(change from initial)<br>&<br>Visual: No Damage   |
| 6.3.3 | Humidity<br>(Cyclic)<br>Group 2 | Mate connectors: And Perform 24 cycles between Temperature 25 ± 3°C at 80 %± 3% Relative humidity and 65 ± 3°C at 50% ± 3% Relative humidity; Ramp time of 0.5 hours and dwell time of 1.0 hour; Dwell times start when the temperature and humidity have Stabilized within the specified levels. | 10 milliohms MAXIMUM (change from initial) & Dielectric Withstanding Voltage: No Breakdown at 500 VAC & Insulation Resistance: 1000 Megohms MINIMUM & Visual: No Damage |

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TEMPLATE FILENAME: 1703070003 REV A



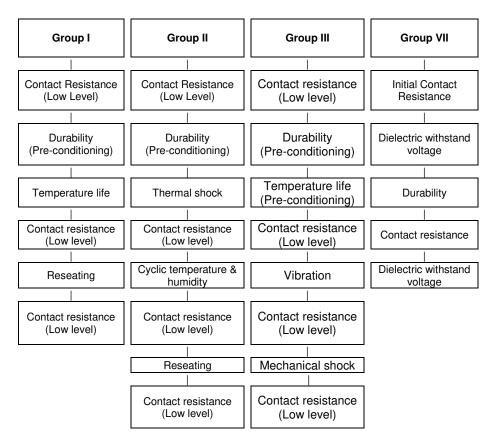
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|-----------|---------------------|--------------|--------------|-----------------------|---------------|-------|-----------------------|
| B2        | EC No: 666346       | F            | PROD         | UCT SPEC STANI        | DARD .062"+ W | TW    | <b>9</b> of <b>14</b> |
|           | DATE: 06/08/2021202 |              |              | CONNEC                | TOR           |       | 90114                 |
| DOCUMEN   | IT NUMBER:          | DOC<br>TYPE: | DOC<br>PART: | CREATED / REVISED BY: | CHECKED BY:   | APPRO | VED BY:               |
| 150       | 1760001-PS          | PS           | 000          | SMAHAJANSHET          | NCSR          | NC    | SR                    |

## molex

## PRODUCT SPECIFICATION

### 7.0 TEST SEQUENCE

Reliability Test Sequences Per EIA-364-1000



### Temperature Life:

Mate connectors and expose to +105°C for 132hrs (preconditioning) and then +105°C for 228hrs (Temperature Life).

Note: Temperature preconditioning applied for Test group 3 is +105°C for 132hrs.

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|----------------|------------------------------------|--------|--|-----------------------|-------------|-------|-----------|--|
| B2             | EC No: 666346  DATE: 06/08/2021202 | _      | PRODUCT SPEC STANDARD .062"+ WTW CONNECTOR |                       |             |       |           |  |
| DOCUMEN        | DOCUMENT NUMBER:                   |        | DOC<br>PART:                               | CREATED / REVISED BY: | CHECKED BY: | APPRO | VED BY:   |  |
| 1501760001-PS  |                                    | PS     | 000  | SMAHAJANSHET          | NCSR        | NC    | SR        |  |
| TEMPI ATE FILE | VAME: 1703070003 REV A             |        |  |                       |             |       |           |  |

### **Individual Tests**

Connector Mate and Un-mate Forces

Terminal Retention Force

Wire Pullout force

Terminal Insertion Force

Panel Insertion & Withdrawal Forces

Latch Retention force with panel

Impact Housings

Temperature Rise T-Rise Profiling Steady State Temperature Rise

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| B2            | EC No: 666346       | F            | PROD                | UCT SPEC STANI        |             | /TW   | <b>11</b> of <b>14</b> |
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| 1501760001-PS |                     | PS           | 000                 | SMAHAJANSHET          | NCSR        | NO    | SR                     |

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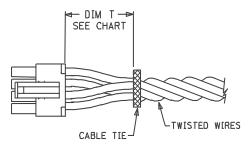
## PRODUCT SPECIFICATION

#### 8.0 **PACKAGING**

Parts shall be packaging to protect the parts from damage during standard shipping, storage, and handling. Refer Molex.com specific part number webpage to get the exact packaging document for that item.

#### 9.0 CABLE TIE AND / OR TWIST TIE LOCATION

| CKT Sizes | Dim T Min.    |
|-----------|---------------|
| 2-4       | .500 (12.70)  |
| 5-8       | .750 (19.10)  |
| 9-12      | 1.000 (25.40) |



The "T" dimension defines a "free" length of wire, or a length of wire that is not subject to significant bias by external factors such as a wire tie, wire twisting, or other means of bending or deforming of the wires that repositions them from their natural relaxed state or location where they enter the housing. Wires are to be dressed in such a manner to allow the terminals to float freely in the pocket. This dimension is general recommendation and may need to be adjusted for different wire gauges and wire type and insulation thickness and insulation material.

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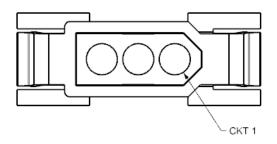


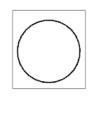
| REVISION:        | ECM INFORMATION:    | TITLE:       |              | ·                     |               |       | SHEET No.              |  |  |
|------------------|---------------------|--------------|--------------|-----------------------|---------------|-------|------------------------|--|--|
| DO               | EC No: 666346       | F            | PROD         | UCT SPEC STAN         | DARD .062"+ W | TW    | <b>12</b> of <b>14</b> |  |  |
| B2               | DATE: 06/08/2021202 |              | CONNECTOR    |                       |               |       |                        |  |  |
| DOCUMENT NUMBER: |                     | DOC<br>TYPE: | DOC<br>PART: | CREATED / REVISED BY: | CHECKED BY:   | APPRO | VED BY:                |  |  |
| 1501760001-PS    |                     | PS           | 000          | SMAHAJANSHET          | NCSR          | NC    | CSR                    |  |  |

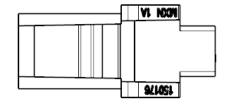


### 10.0 POLARIZATION AND KEYING OPTIONS

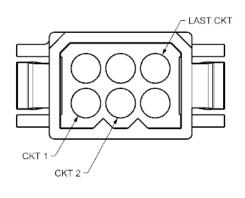
10.1 Single Row Plug Housing (Series: 150176)



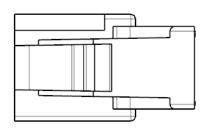




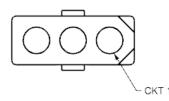
10.2 Dual Row Plug Housing (Series: 150177)



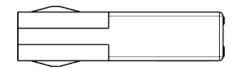




10.3 Single Row Receptacle Housing (Series: 150178)







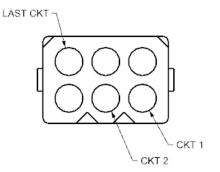
STANDARD .062"+ Connector System Web Page



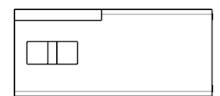
|                  |                     |              |              |                      |                |       | 3 in what or its       |
|------------------|---------------------|--------------|--------------|----------------------|----------------|-------|------------------------|
| REVISION:        | ECM INFORMATION:    | TITLE:       |              |                      |                |       | SHEET No.              |
| B2               | EC No: 666346       | F            | PROD         | UCT SPEC STAN        | NDARD .062"+ W | TW    | <b>13</b> of <b>14</b> |
| 02               | DATE: 06/08/2021202 |              |              | CONNE                | CTOR           |       | 13 01 14               |
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| 1501760001-PS    |                     | PS           | 000          | SMAHAJANSHET         | NCSR           | NC    | CSR                    |



10.4 Dual Row Receptacle Housing (Series: 150179)







STANDARD .062"+ Connector System Web Page



| REVISION:                           | ECM INFORMATION:    | TITLE:                           |              |                       |             |              | SHEET No.              |
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| 1501760001-PS                       |                     | PS                               | 000          | SMAHAJANSHET          | NCSR        | NCSR         |                        |
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