



# PRODUCT SPECIFICATION

## MICRO-FIT

### 1.0 SCOPE

This Product Specification covers the performance requirements and test methods of Micro-Fit 3.00 mm (.118 inch) centerline (pitch) wire to board and wire to wire connector systems terminated with 18 to 30 AWG stranded wire using crimp technology with tin or gold plating.

### 2.0 PRODUCT DESCRIPTION

#### 2.1 PRODUCT NAME AND SERIES NUMBERS

|                 |                                                 |                        |        |
|-----------------|-------------------------------------------------|------------------------|--------|
| Receptacle:     | 43025                                           | Female Crimp Terminal: | 43030  |
| TPA Receptacle: | 172952                                          | TPA (for 172952):      | 172953 |
| Plug:           | 43020                                           | Male Crimp Terminal:   | 43031  |
| Headers:        | 43045, 44914                                    |                        |        |
| Test Plug:      | 44242 (recommended for continuity testing only) |                        |        |

Other products conforming to this specification are noted on the individual drawings.

#### 2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

|           |                                                       |
|-----------|-------------------------------------------------------|
| Housings: | Receptacle and Plug - Polyester, Nylon; Headers - LCP |
| Terminal: | Phosphor Bronze                                       |
| Pins:     | Brass, Modified Tin/Brass                             |

#### 2.3 SAFETY AGENCY APPROVALS

File Numbers:

|      |         |
|------|---------|
| UL:  | E29179  |
| CSA: | LR19980 |

*IEC 61984 Certification: Tested to and found in compliance with IEC 61984. NRTL type examination certificate available from Molex upon request. Contact Molex Safety Agency team for questions regarding certification on specific part numbers.*

### 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

|                   |                                         |
|-------------------|-----------------------------------------|
| Test Summary:     | TS-43045-001                            |
| Application Spec: | AS-45499-001 (moisturizing nylon parts) |

### 4.0 RATINGS

#### 4.1 SAFETY AGENCY RATINGS

| Series | Agency Voltage Rating<br>(AC RMS or DC) |     |         | Agency Current Rating (Single Circuit)<br>(Amps) |     |         |
|--------|-----------------------------------------|-----|---------|--------------------------------------------------|-----|---------|
|        | UL                                      | CSA | IEC     | UL                                               | CSA | IEC     |
| 43020  | 350                                     | 600 | 250     | 5                                                | 7   | 5       |
| 43025  | 600                                     | 600 | 250     | 8                                                | 8   | 5       |
| 172952 | 600                                     | 600 | pending | 5                                                | 7   | pending |
| 43045  | 600                                     | 600 | 250     | 8                                                | 8   | 5       |
| 44914  | 600                                     | 600 | 250     | 8                                                | 8   | 5       |

Current ratings are maximum and may vary depending on wire size, circuit count, and end-use application. Further testing may be required in the end-use application.

|                                     |                                                                               |                                                                              |                               |
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| DOCUMENT NUMBER:<br><b>PS-43045</b> | CREATED / REVISED BY:<br><b>SSOUSEK</b>                                       | CHECKED BY:<br><b>JBELL</b>                                                  | APPROVED BY:<br><b>FSMITH</b> |



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## 4.2 CURRENT DERATING AND APPLICABLE WIRES

Current is dependent on connector size, contact material, plating, ambient temperature, printed circuit board characteristics and related factors. Actual current rating is application dependent and should be evaluated for each application.

| <u>Stranded Copper Wire Size</u> | <u>Max. Outside Insulation Diameter</u> |
|----------------------------------|-----------------------------------------|
| 18 AWG                           | 1.85 mm (.073 inch)                     |
| 0.75 mm <sup>2</sup>             | 1.85 mm (.073 inch)                     |
| 20 AWG                           | 1.85 mm (.073 inch)                     |
| 22 AWG                           | 1.85 mm (.073 inch)                     |
| 24 AWG                           | 1.85 mm (.073 inch)                     |
| 26 AWG                           | 1.27 mm (.050 inch)                     |
| 28 AWG                           | 1.27 mm (.050 inch)                     |
| 30 AWG                           | 1.27 mm (.050 inch)                     |

| CURRENT DERATING REFERENCE INFORMATION |           |      |           |       |            |       |            |       |
|----------------------------------------|-----------|------|-----------|-------|------------|-------|------------|-------|
| AWG and Metric Wire Size               | 2-circuit |      | 6-circuit |       | 12-circuit |       | 24-circuit |       |
|                                        | W-W       | W-B  | W-W       | W-B   | W-W        | W-B   | W-W        | W-B   |
|                                        | Amps      | Amps | Amps      | Amps  | Amps       | Amps  | Amps       | Amps  |
| 18 AWG                                 | 7         | 8.5  | 6         | 6.5   | 5.5        | 5.5   | 5          | 5     |
| 20 AWG or 0.75mm <sup>2</sup>          | 6.5       | 7    | 5         | * 5.5 | 4.5        | * 5   | * 4        | 4.5   |
| 22 AWG                                 | 5.5       | * 6  | * 4       | * 4.5 | * 3.5      | * 4   | * 3        | * 3.5 |
| 24 AWG                                 | 5         | 5.5  | 4         | * 4.5 | 3          | * 3.5 | * 2        | * 3   |
| 26 AWG                                 | 4         | 4.5  | 3         | * 4   | 2.5        | * 3.5 | * 1.5      | 2.5   |
| 28 AWG                                 | 3         | * 4  | * 2       | * 3   | * 2        | * 3   | * 1        | * 2   |
| 30 AWG                                 | 3         | 3.5  | 2         | * 3   | 2          | * 2.5 | * 1        | 1     |

- 1) Values are for REFERENCE ONLY.
- 2) Current deratings are based on not exceeding 30°C Temperature Rise.
- 3) Testing conducted using tinned stranded copper wire and tin plated terminals.
- 4) PCB trace design can greatly affect temperature rise results in Wire-to-Board applications.
- 5) Data is for all circuits powered.
- 6) \* indicates interpolated information.
- 7) **W-W:** Wire-to-Wire     **W-B:** Wire-to-Board

|                                     |                                                                               |                                                                              |                               |
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| DOCUMENT NUMBER:<br><b>PS-43045</b> | CREATED / REVISED BY:<br><b>SSOUSEK</b>                                       | CHECKED BY:<br><b>JBELL</b>                                                  | APPROVED BY:<br><b>FSMITH</b> |



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## 4.3 CURRENT FOR TEST PLUG 44242

2.5 Amps Maximum (Pogo pin current capacity)

Test plugs are for testing purposes only and not intended for continuous use.

## 4.4 TEMPERATURE

Operating: - 40°C to + 105°C (Including Terminal Temperature Rise)

Non-operating: - 40°C to + 105°C

|                                     |                                                                               |                                                                              |                               |
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## 5.0 PERFORMANCE

### 5.1 ELECTRICAL REQUIREMENTS

| DESCRIPTION                                               | TEST CONDITION                                                                                                                                                                                    | REQUIREMENT                             |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <b>Contact Resistance (Low Level)</b>                     | Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA. (Does not include wire resistance)                                                                                     | 10 milliohms<br>MAXIMUM<br>[initial]    |
| <b>Contact Resistance of Wire Termination (Low Level)</b> | Terminate the applicable wire to the terminal and measure wire using a voltage of 20 mV and a current of 100 mA.                                                                                  | 5 milliohms<br>MAXIMUM<br>[initial]     |
| <b>Insulation Resistance</b>                              | Unmate & unmount connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.                                                                               | 1000 Megohms<br>MINIMUM                 |
| <b>Dielectric Withstanding Voltage</b>                    | Unmate connectors: apply a voltage of {two times the rated voltage plus 1000 volts} VAC for 1 minute between adjacent terminals and between terminals to ground.                                  | No breakdown;<br>current leakage < 5 mA |
| <b>Capacitance</b>                                        | Measure between adjacent terminals at 1 MHz.                                                                                                                                                      | 2 picofarads<br>MAXIMUM                 |
| <b>Temperature Rise (via Current Cycling)</b>             | Mate connectors: measure the temperature rise at the rated current after:<br>1) 96 hours (steady state)<br>2) 240 hours (45 minutes ON and 15 minutes OFF per hour)<br>3) 96 hours (steady state) | Temperature rise:<br>+30°C MAXIMUM      |

### 5.2 MECHANICAL REQUIREMENTS

| DESCRIPTION                                        | TEST CONDITION                                                                                           | REQUIREMENT                                                                                                   |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Connector Mate and Unmate Forces</b>            | Mate and unmate connector (male to female) at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. (Per circuit) | 8.0 N (1.8 lbf) per circuit<br>MAXIMUM mate force<br>&<br>2.4 N (0.5 lbf) per circuit<br>MINIMUM unmate force |
| <b>Crimp Terminal Retention Force (in Housing)</b> | Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.       | 24.5 N (5.5 lbf)<br>MINIMUM retention force                                                                   |

|                                     |                                                                               |                                                                              |                               |
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## 5.2 MECHANICAL REQUIREMENTS, cont.

|                                                           |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crimp Terminal Insertion Force (into Housing)</b>      | Apply an axial insertion force on the terminal at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.                                                              | 14.7 N (3.3 lbf)<br>MAXIMUM insertion force                                                                                                                                                                                                                                                                                                                  |
| <b>Durability</b>                                         | Mate connectors up to 30 cycles at a maximum rate of 10 cycles per minute.                                                                                  | 20 milliohms MAXIMUM<br>(change from initial)                                                                                                                                                                                                                                                                                                                |
| <b>Vibration (Random)</b>                                 | Mate connectors and vibrate per EIA 364-28, test condition VII, Letter D. Test Duration: 15 minutes each axis.                                              | 20 milliohms MAXIMUM<br>(change from initial)<br>&<br>Discontinuity < 1 microsecond                                                                                                                                                                                                                                                                          |
| <b>Shock (Mechanical)</b>                                 | Mate connectors and shock at 50 g's with ½ sine wave (11 milliseconds) shocks in the ±X,±Y,±Z axes (18 shocks total).<br>(Per EIA-364-27, Test Condition H) | 20 milliohms MAXIMUM<br>(change from initial)<br>&<br>Discontinuity < 1 microsecond                                                                                                                                                                                                                                                                          |
| <b>Wire Pullout Force (Axial)</b><br>(Wire from Terminal) | Apply an axial pullout force on the wire at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.                                                                    | MINIMUM pullout force<br>18 awg: 89.0 N (20.0 lbf)<br>0.75 mm2: 89.0 N (20.0 lbf)<br>20 awg: 57.8 N (13.0 lbf)<br>22 awg: 35.6 N (8.0 lbf)<br>24 awg: 22.2 N (5.0 lbf)<br>26 awg: 13.3 N (3.0 lbf)<br>28 awg: 8.9 N (2.0 lbf)<br>30 awg: 6.6 N (1.5 lbf)<br><br>Values may vary depending on crimp tooling. Refer to Molex Applicator Tooling Specification. |
| <b>Normal Force</b>                                       | Apply a perpendicular force.                                                                                                                                | 2.7 N (0.6 lbf) MINIMUM                                                                                                                                                                                                                                                                                                                                      |
| <b>Pin to Header Retention</b>                            | Apply axial push force to pin at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.                                                                               | 13.7 N (3.1 lbf)<br>MINIMUM pushout force                                                                                                                                                                                                                                                                                                                    |
| <b>Thumb Latch to Ramp Yield Strength</b>                 | Full mate and then Unmate the connectors at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.                                                                    | 58.0 N (13.0 lbf)<br>MINIMUM Yield Strength                                                                                                                                                                                                                                                                                                                  |
| <b>Panel Mount Retention</b>                              | Insert connector in panel. Apply an axial force on the connector in the opposite direction of insertion at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.     | 155.7 N (35 lbf)<br>MINIMUM pushout force                                                                                                                                                                                                                                                                                                                    |

|                                     |                                                                               |                                                                              |                               |
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## 5.2 MECHANICAL REQUIREMENTS, cont.

|                                                                   |                                                                                                 |                                                                              |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Compliant Pin Insertion Force into PCB Hole (44914 Series)</b> | Apply an axial insertion force on the terminal at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.  | 106.7 N (24 lbf)<br>Maximum Insertion force<br>(Per Terminal) <sup>(1)</sup> |
| <b>Compliant Pin Retention Force in PCB Hole (44914 Series)</b>   | Apply an axial extraction force on the terminal at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. | 35.6 N (8 lbf)<br>Minimum Retention force<br>(Per Terminal) <sup>(1)</sup>   |

(1) Based on results using Printed Circuit Board (PCB) with Tin PTH finish. Pin left undisturbed in PCB a minimum of 24 hours after insertion prior to testing Retention Force. PCB with different design or finish may vary from these results

## 5.3 ENVIRONMENTAL REQUIREMENTS

| DESCRIPTION                    | TEST CONDITION                                                                                                                                                                                                                                     | REQUIREMENT                                                                                                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Thermal Aging</b>           | Mate connectors; expose to:<br>240 hours at 105 ± 2°C<br>OR<br>500 hours at 85 ± 2°C                                                                                                                                                               | 20 milliohms MAXIMUM<br>(change from initial)]                                                                                                                           |
| <b>Humidity (Steady State)</b> | Mate connectors: expose to a temperature of 40 ± 2°C with a relative humidity of 90-95% for 96 hours.<br><br>Note: Remove surface moisture and air dry for 1 hour prior to measurements.                                                           | 20 milliohms MAXIMUM<br>(change from initial)<br>&<br>Dielectric Withstanding Voltage:<br>No Breakdown at 500 VAC<br>&<br>Insulation Resistance:<br>1000 Megohms MINIMUM |
| <b>Solderability</b>           | Per SMES-152                                                                                                                                                                                                                                       | Solder coverage:<br>95% MINIMUM<br>(per SMES-152)                                                                                                                        |
| <b>Solder Resistance</b>       | <b>A) Wave Solder Process</b><br>Dip connector terminal tails in solder;<br>Solder Duration: 10 seconds MAX<br>Solder Temperature: 260°C MAX<br>Per AS-40000-5013<br><br><b>B) Convection Reflow Solder Process</b><br>260°C MAX Per AS-40000-5013 | Visual:<br>No Damage to insulator material                                                                                                                               |

|                                     |                                                                               |                                                                              |                               |
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## 5.3 ENVIRONMENTAL REQUIREMENTS, cont.

|                        |                                                                                                                                                                           |                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>Salt Spray</b>      | Mate connectors<br>Orientation: Horizontal with latch on top surface<br>Duration: 48 hours exposure<br>Atmosphere: Salt spray from a 5% solution<br>Temperature: 35 ± 2°C | 20 milliohms MAXIMUM<br>(change from initial) |
| <b>Cold Resistance</b> | Mate connectors<br>Duration: 96 hours<br>Temperature: -40 ± 3°C                                                                                                           | 20 milliohms MAXIMUM<br>(change from initial) |

## 6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage per the packaging specifications listed below:

Receptacle, TPA Receptacle, TPA, and Plug: Bulk Packaged  
Headers: PK-70873-0313, PK-70873-0314, PK-70873-05\*\*.

## 7.0 GAGES AND FIXTURES

It is recommended that test plugs (Series 44242) be used for continuity testing of receptacles. Standard mating parts should not be used for harness testing.

NOTE: The use of unauthorized testing devices and/or probes with a Molex product may cause damage to and affect functionality of the Molex product, and such use may void any and all warranties, expressed or implied.

|                                            |                                                                                      |                                                                                     |                                      |
|--------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|
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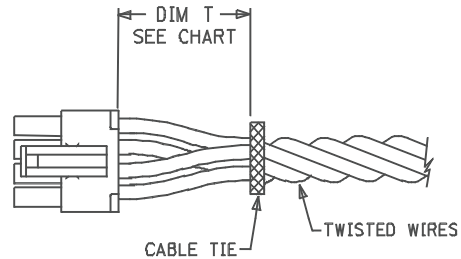


# PRODUCT SPECIFICATION

## 8.0 OTHER INFORMATION

### 8.1 CABLE TIE AND OR WIRE TWIST LOCATION

| CKT Sizes | Dim T | Min.    |
|-----------|-------|---------|
| 2-8       | .500  | (12.70) |
| 10-16     | .750  | (19.10) |
| 18-24     | 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.

### 8.2 CONTACT ENGAGEMENT (WIPE) FOR FULLY MATED NOMINAL COMPONENTS (For Reference Only)

| Receptacle                              | Mated to Plug/<br>Header         | Application   | Contact Wipe       |
|-----------------------------------------|----------------------------------|---------------|--------------------|
| 43025<br>Receptacle <sup>(1)</sup>      | 43020 Plug                       | Wire-to-Wire  | 0.083 in/(2.11 mm) |
|                                         | 43045 Header<br>44914 CPI Header | Wire-to-Board | 0.069 in/(1.75 mm) |
| 172952<br>TPA Receptacle <sup>(1)</sup> | 43020 Plug                       | Wire-to-Wire  | 0.072 in/(1.84 mm) |
|                                         | 43045 Header<br>44914 CPI Header | Wire-to-Board | 0.063 in/(1.60 mm) |

**Note (1):** Contact Wipe is based on 43030 female crimp terminal. If using 46235 female crimp terminal, reduce Contact Wipe by .005 in/(0.13 mm).

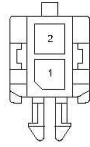
|                                     |                                                                               |                                                                              |                               |
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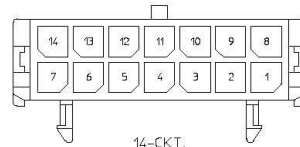


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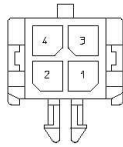
## 8.3 STANDARD POLARIZATION FOR HEADERS AND PLUGS (HEADERS ARE SHOWN)



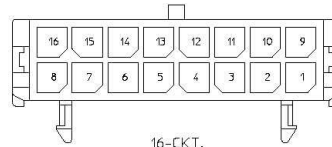
2-CKT.



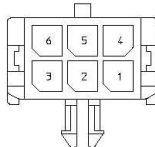
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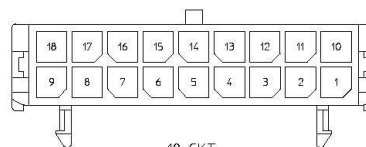
4-CKT.



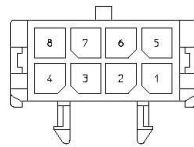
16-CKT.



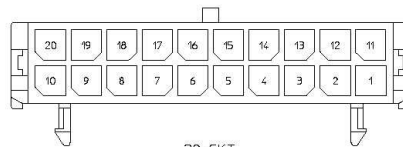
6-CKT.



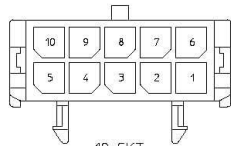
18-CKT.



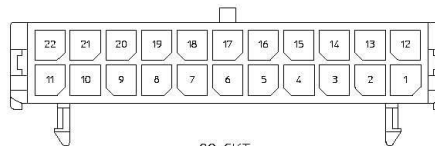
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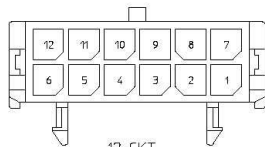
20-CKT.



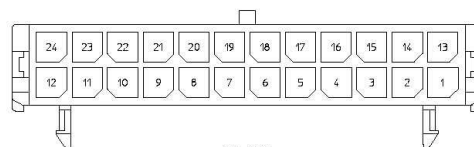
10-CKT.



22-CKT.



12-CKT.



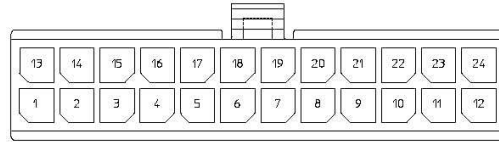
24-CKT.

|                                     |                                                                               |                                                                              |                               |
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| REVISION:<br><b>P</b>               | ECR/ECN INFORMATION:<br>EC No: <b>UCP2018-0645</b><br>DATE: <b>2017/10/27</b> | TITLE:<br><b>PRODUCT SPECIFICATION<br/>MICRO-FIT<br/>DUAL ROW CONNECTORS</b> | SHEET No.<br><b>9 of 10</b>   |
| DOCUMENT NUMBER:<br><b>PS-43045</b> | CREATED / REVISED BY:<br><b>SSOUSEK</b>                                       | CHECKED BY:<br><b>JBELL</b>                                                  | APPROVED BY:<br><b>FSMITH</b> |

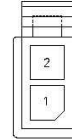


# PRODUCT SPECIFICATION

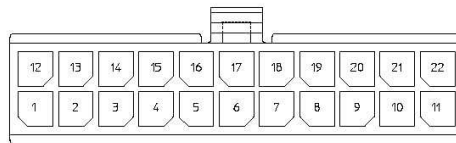
## 8.4 STANDARD POLARIZATION FOR RECEPTACLES



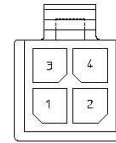
24-CKT.



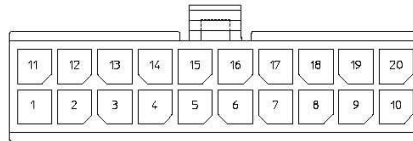
2-CKT.



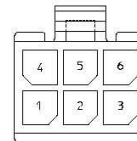
22-CKT.



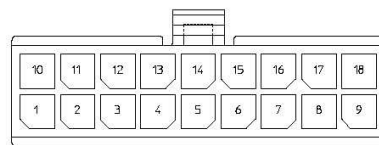
4-CKT.



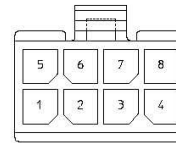
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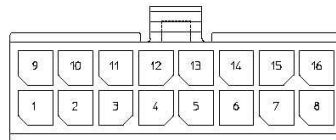
6-CKT.



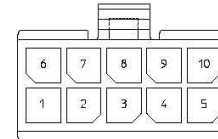
18-CKT.



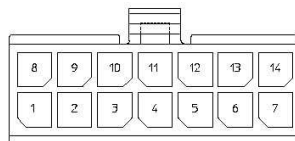
8-CKT.



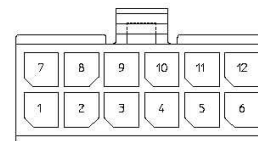
16-CKT.



10-CKT.



14-CKT.



12-CKT.

|                                     |                                                                               |                                                                              |                               |
|-------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------|
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| DOCUMENT NUMBER:<br><b>PS-43045</b> | CREATED / REVISED BY:<br><b>SSOUSEK</b>                                       | CHECKED BY:<br><b>JBELL</b>                                                  | APPROVED BY:<br><b>FSMITH</b> |