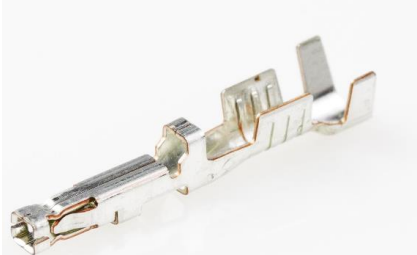
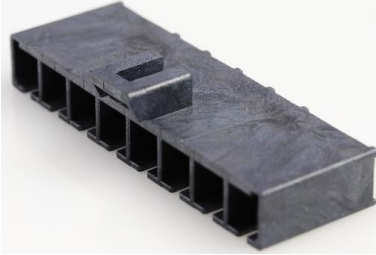
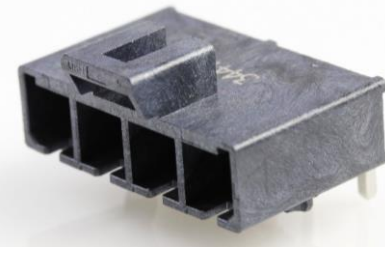


MEGA-FIT

Wire to Board CONNECTOR SYSTEM

Tangless Terminal	TPA
	
Series: 76823 , 172063	Series: 105415

Dual Row Receptacle Housing TPA Capable	Single Row Receptacle Housing
	
Series: 171692 , 224983	Series: 200456

Single Row Vertical Header, With Crush Pegs	Single Row Right Angle Header, With Crush Pegs
	
Series: 200241	Series: 200241

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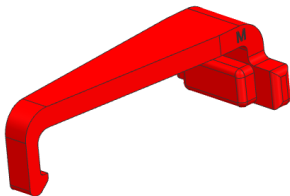
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Dual Row Vertical Header W/O Crush Pegs	Dual Row Vertical Header, With Crush Pegs
	
Series: 76829 , 172065	Series: 76829 , 172065 , 171597 (MFBL)

Dual Row Right Angle Header	Back Shell
	
Series: 172064 , 76825 , 171596 (MFBL), 215038	Series: 200122

CPA	
	
Series: 228006	

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1.0 SCOPE

This product specification covers the performance requirements for the 5.70mm Pitch “Mega-Fit W-to-B” connector system terminated with 16 to 10 AWG wire using Crimping termination technology.

2.0 PRODUCT DESCRIPTION

2.1 DESCRIPTION, SERIES NUMBER, AND LINKS

DESCRIPTION	SERIES NUMBER
Female Tangless Crimp Terminal	76823 , 172063
Dual Row Receptacle Hsg	171692 , 224983
Single Row Receptacle Hsg	200456
Vertical Header Dual Row (with crush pegs)	76829 , 172065
Vertical Header Dual Row (w/o crush pegs)	76829 , 172065
Vertical Header Dual Row with MFBL option	171597
Vertical Header Single Row (with crush pegs)	200241
Right Angle Header Dual Row	172064 , 76825 , 204653 , 215038
Right Angle Header Dual Row, with MFBL option	171596
Right Angle Header Single Row	200241
TPA	105415
CPA	228006
Back Shell	200122

2.2 DIMENSIONS, MATERIALS, PLATINGS

See sales drawings for details on dimensions, materials and platings.

2.3 ENVIRONMENTAL CONFORMANCE

To find product compliance information:

- [Go to molex.com](#)
- Enter the part number in the search field.
- At the bottom of the page go to “Environmental” to see compliance status.

2.4 SAFETY AGENCY LISTINGS

UL File Number: E29179, TEC-00982
CSA File Number: 1068385

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3.0 APPLICABLE DOCUMENTS AND SPECIFICATION

3.1 MOLEX DOCUMENTS

Test Summary 1720631000-TS

[Application Specification 768232000-AS](#)

[Molex Quality Crimping Handbook Order No. 203702-4200\(UL11028\), for 10AWG](#)

[Molex Quality Crimping Handbook Order No. 63904-3700\(UL1015\), for 12AWG](#)

[Molex Quality Crimping Handbook Order No. 63904-3800\(UL1007\), for 12AWG](#)

[Molex Quality Crimping Handbook Order No. 63904-3500\(UL1015\), for 14-16AWG](#)

[Molex Quality Crimping Handbook Order No. 63904-3600\(UL1007\), for 14-16AWG](#)

[Molex Quality Crimping Handbook Order No. 200218-0900\(UL1015/1007\), for 12AWG](#)

[Molex Quality Crimping Handbook Order No. 213309-1300\(UL1015/1007\), for 14AWG](#)

[Molex Quality Crimping Handbook Order No. 213309-1400\(UL1015/1007\), for 16AWG](#)

[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](#)

ATS-Application Tooling Specification *

**Application tooling Specification differs with Terminals. ATS shall be available in the respective Terminal part number page.*

3.2 INDUSTRY DOCUMENTS

EIA-364-1000

SAE/USCAR-2

UL-60950-1

UL-1977

CSA STD. C22.2 NO. 182.3-M1987

IEC / EN 61984

4.0 ELECTRICAL PERFORMANCE RATINGS

4.1 VOLTAGE

600 Volts AC (RMS) or 600 Volts DC max.

* Voltage rating based on UL 1977. Maximum voltage allowed may vary dependent upon "End Use Application." Refer to the applicable end use standard for additional information on Voltage, Creepage and Clearance requirements.

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4.2 APPLICABLE WIRES

Wire Gage (Stranded copper)	Insulation Diameter
10AWG	3.607mm MAXIMUM*
12 AWG	4.06 mm MAXIMUM
14 AWG	3.58 mm MAXIMUM
16 AWG	3.15 mm MAXIMUM
1.5 mm ²	3.15 mm MAXIMUM
2.5 mm ²	3.58 mm MAXIMUM
4.0 mm ²	4.06 mm MAXIMUM
6.0 mm ²	3.607mm MAXIMUM*

*The 10AWG and 6.0mm² recommend UL11028 wire, more detail please see application tooling specification on molex.com.

4.3 CURRENT RATING (MAXIMUM AMPERES)

Note: Ratings shown represent *MAXIMUM* current carrying capacity of a fully loaded connector with all circuits powered in still air. Ratings are based on a 30 °C maximum temperature rise limit over ambient (room temperature). Current rating is application dependent and below charts are intended as a guideline. Appropriate de-rating is required depending on factors such as higher ambient temperature, gross heating from adjacent modules or components and other factors that influence connector performance.

Dual Row Wire to Board Current Rating (Amp Max.) (As tested with tinned awg copper wire and Tin-plated terminals)						
Connector fully loaded with all circuits Powered						
Ckt. Size AWG & metric Wire Size	2	4	6	8	10	12
10 AWG, 6.0mm ²	28	27*	26*	24*	22*	20
12 AWG, 4.0mm ²	23.5	22*	21*	20*	19*	18
14 AWG, 2.5mm ²	21	19*	17*	15*	14*	14
16 AWG, 1.5mm ²	18	15	14*	13	12*	12

1)*Extrapolated from test data.
2) Values are for *REFERENCE ONLY*.

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Dual Row Dual Wire Termination Current Rating (Amp Max.) (As tested with tinned awg copper wire and Tin-plated terminals)						
Connector fully loaded with all circuits Powered						
Exert current to two wires at the same time						
Ckt. Size AWG Wire Size	2	4	6	8	10	12
16AWG+16AWG	23	21*	20*	18*	16*	15*
18AWG+18AWG	18.5	17*	15*	13*	12*	11*
20AWG+20AWG	14	12*	11*	10*	9*	8*
Exert current to single wire						
Ckt. Size AWG Wire Size	2	4	6	8	10	12
16AWG+16AWG	11.5*	10.5*	10*	9*	8*	7.5*
18AWG+18AWG	9*	8.5*	7.5*	6.5*	6*	5.5*
20AWG+20AWG	7*	6*	5.5*	5*	4.5*	4*

- 1)*Extrapolated from test data.
2) Values are for REFERENCE ONLY.

Single Row Wire to Board Current Rating (Amp Max.) (As tested with tinned awg copper wire and Tin-plated terminals)							
Connector fully loaded with all circuits Powered							
Ckt. Size AWG & metric Wire Size	2	3	4	5	6	7	8
10 AWG, 6.0mm ²	30	29*	28*	27*	26.5*	26*	25.5
12 AWG, 4.0mm ²	26	24*	23*	22*	21*	20*	19
14 AWG, 2.5mm ²	23	22*	21*	20*	20*	19*	19
16 AWG, 1.5mm ²	19.5	19*	18*	17*	17*	16*	16

- 1)*Extrapolated from test data.
2) Values are for REFERENCE ONLY.

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Single Row Dual Wire Termination Current Rating (Amp Max.) (As tested with tinned awg copper wire and Tin-plated terminals)							
Connector fully loaded with all circuits Powered							
Exert current to two wires at the same time							
AWG Wire Size \ Ckt. Size	2	3	4	5	6	7	8
16AWG+16AWG	23	22*	21*	20*	19*	18*	18*
18AWG+18AWG	18.5	18*	17*	17*	16*	16*	15*
20AWG+20AWG	14	13*	13*	13*	12*	12*	12*
Exert current to single wire							
AWG Wire Size \ Ckt. Size	2	3	4	5	6	7	8
16AWG+16AWG	11.5*	11*	10.5*	10*	9.5*	9*	9*
18AWG+18AWG	9*	9*	8.5*	8.5*	8*	8*	7.5*
20AWG+20AWG	7*	6.5*	6.5*	6.5*	6*	6*	6*

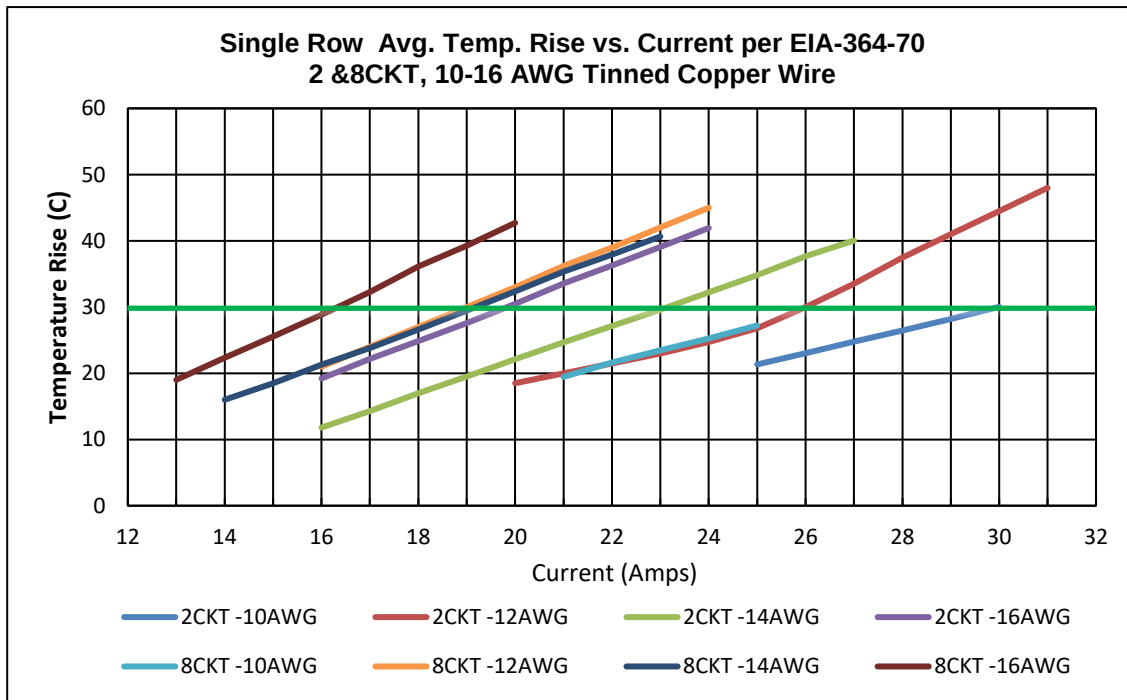
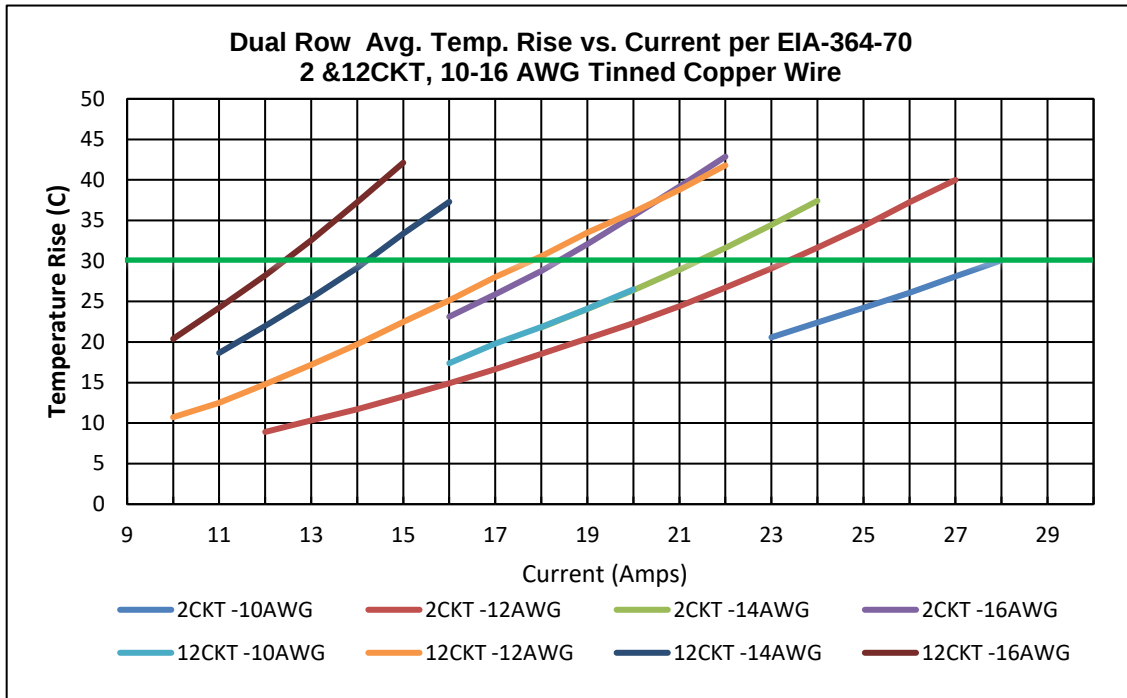
1)*Extrapolated from test data.
2) Values are for REFERENCE ONLY.

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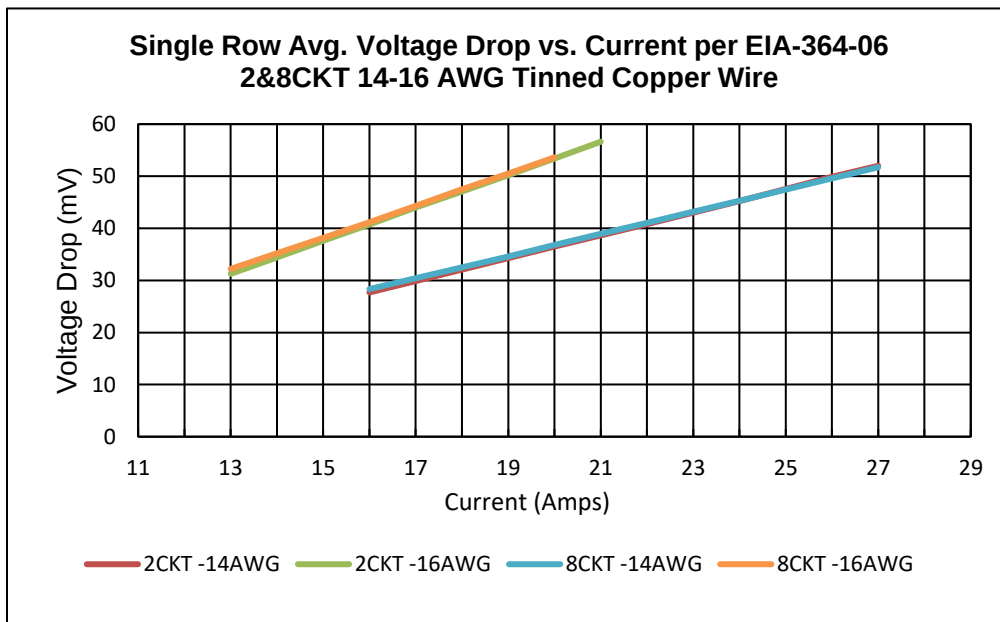
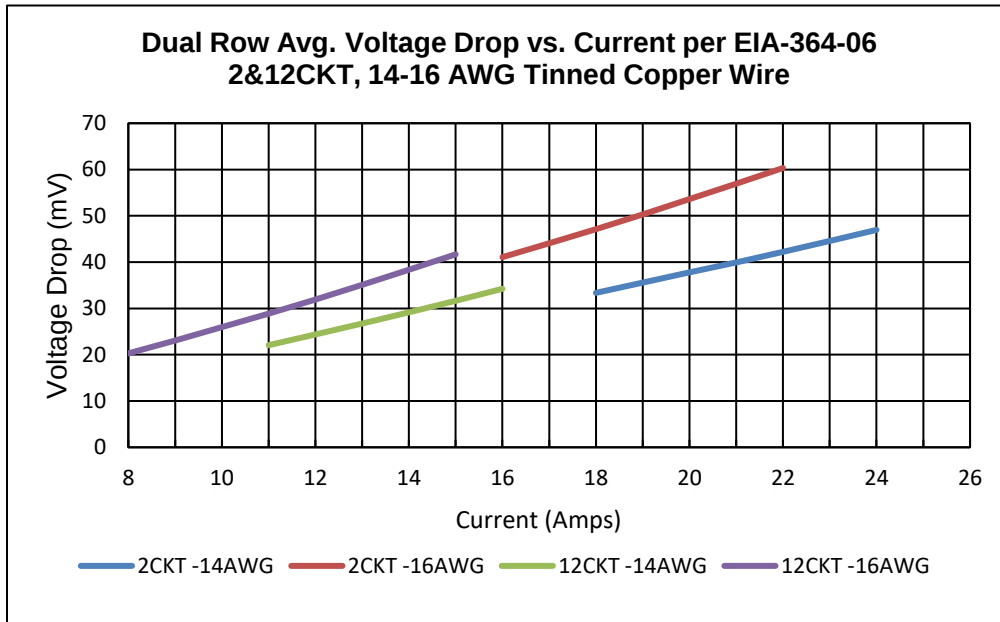
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Note: Voltage Drops Profile shown the *MAXIMUM* Voltage Drops with all circuits powered in still air. Appropriate de-rating is required depending on factors such as higher ambient temperature, gross heating from adjacent modules or components and other factors that influence connector performance.



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		CHECKED BY:	APPROVED BY:
		XQZHANG	XQZHANG

4.4 TEMPERATURE

Operating Temperature Range: Tin Plated: - 40 °C to + 105 °C
Gold Plated: -40 °C to + 120 °C
(Includes T-Rise from applied current)

Non-Operating Temperature Range: - 40 °C to + 105 °C

Field Temperature and Field Life: 65°C for 10 years (based EIA-364-1000, table 8)

Note: Temperature life test duration (section 6.3. item 1) is based on the assumption that the contact spends its entire life at the rated field maximum temperature (based on EIA-364-1000, table 8).

4.5 DURABILITY

Plating Type	Number of Cycles
Tin Plated	25
Gold Plated	200

*As tested in accordance with EIA-364-1000 test method (see Sec. 6.2 item 8 of this specification).
Durability per EIA-364-09.*

4.6 GLOW WIRE SERIES

* TBD

The Following Series are Glow Wire Capable: 171692, 200456, 105415, 200122, 76829, 172065, 171597, 172064, 76825, 204653, 171596, 200241. Representative Samples Were Tested and found Compliant with EN 60695-2-11-2001 / IEC 60695-2-11-2000 Glow Wire Test Methods for end products.

These were additionally investigated for compliance with EN 60335-1 / IRC 60335-1 750C/2 sec with no flaming.

VDE Glow wire approval file number: 569200-9020-0043/287028.

5.0 QUALIFICATION

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

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6.0 PERFORMANCE**6.1 ELECTRICAL PERFORMANCE**

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.1.1	Initial Contact Resistance (Low Level)	Per EIA-364-23 Mate connectors apply a maximum voltage of 20 mV and a current of 100 mA. Wire resistance shall be removed from the measured value.	2 milliohms MAXIMUM [initial]
6.1.2	Insulation Resistance	Apply 500 VDC between adjacent terminals or ground. Per EIA-364-21.	1000 Megohms MINIMUM
6.1.3	Dielectric Withstanding Voltage	Apply 2200 VAC for 1 minute between adjacent terminals. Per EIA-364-20	No breakdown; current leakage < 5 mA
6.1.4	Temperature Rise & Voltage Drop@ Rated current	Mate connectors, measure T- Rise @ Rated Current After 96 Hours Per EIA-364-70 Voltage Drop Per EIA-364-06	Temperature rise: +30 °C MAXIMUM

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6.2 MECHANICAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.2.1	Connector Mating / Unmate (latch disabled, per terminal)	Mate connectors at a rate of 25.4 ± 6 mm per minute. Per EIA-364-37 Un-mate connectors with latch disabled at a rate of 25.4 ± 6 mm per minute.	6.8 N (1.46 lbf) MAXIMUM mating force & 5.0 N (1.12 lbf) MAXIMUM unmating force
6.2.2	Thumb Latch Yield Strength (Initial)	Mate loaded connectors fully. Pull connectors apart at a rate of 25.4 ± 6 mm per minute.	w/o CPA:50 N MIN. with CPA(only for SR connector system): 75 N MIN.
6.2.3	Crimp Terminal to Housing Retention Force (with and w/o TPA)	Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute.	w/o TPA:36 N (8.10 lbf) with TPA:66 N (14.84 lbf) MINIMUM retention force
6.2.4	Header Pin Retention Force in Housing Vertical Header	Axial pull force on the vertical header housing away from the PCB at a rate of 25.4 ± 6 mm per minute.	89 N MINIMUM per pin
6.2.5	Header Pin Retention Force in Housing Right Angle Header	Axial push force on the pin in the housing at a rate of 25.4 ± 6 mm per minute.	9.81 N MINIMUM per pin
6.2.6	Back Shell Insertion Force (Dual Row)	Insert a back shell at a rate of 25.4 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute.	20 N (4.50 lbf) MAXIMUM insertion force
6.2.7	Back Shell Retention Force (Dual Row)	Withdraw a back shell at a rate of 25.4 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute.	200N (45.00 lbf) MINIMUM retention force
6.2.8	PCB Peg Engagement Force (Nominal PCB hole diameter & location)	Insert a header at a rate of 25.4 ± 6 mm/minute. (Applies to parts with PCB retention pegs only)	Header with 2 pegs: 85 N MAXIMUM insertion force & Headers with 1 peg: 45 N MAXIMUM insertion force

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6.2 MECHANICAL PERFORMANCE CONTINUED

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.2.9	Durability	Mate connectors 25 cycles for tin plated and 200 cycles for gold plated connectors at a maximum rate of 10 cycles per minute. Per EIA-364-09	2 mΩ MAXIMUM (change from initial)
6.2.10	Durability with Environment (Preconditioning)	Mate connectors 5 cycles for tin plated and 20 cycles for gold plated connectors at a maximum rate of 10 cycles per minute. Per EIA-364-09.	2 mΩ MAXIMUM (change from initial)
6.2.11	Wire to Crimp Pullout Force	Apply an axial pullout force on the wire at a rate of 25 ± 6 mm (1 ± ¼ inch).	6.0 mm ² = 220 N Min. 10 AWG = 220 N Min. 4.0 mm ² = 220 N Min. 12 AWG = 220 N Min. 2.5 mm ² = 220 N Min. 14 AWG = 220 N Min. 1.5 mm ² = 220 N Min. 16 AWG = 200 N Min. 16+16 AWG = 89 N Min. 18+18 AWG = 89 N Min. 20+20 AWG = 58 N Min. Values may vary depending on crimp tooling. Refer to Molex Applicator Tooling specification
6.2.12	Vibration (Random)	Mate connectors and vibrate per EIA-364-28 test condition VII-D Tin: 15 minutes each axis. Gold: 1.5 hours each axis.	Maximum Change from Initial: 2 mΩ Discontinuity < 1 microsecond
6.2.13	Vibration/Mechanical Shock (SAE/USCAR-2) Tin Plated only	USCAR-2 Rev 6 per sequence M per section 5.9.6, Classification: V1, S1, T2 Shock: 35 G's, 10 shocks per axis Vibration: 8 hours per axis, 1.81 g	No discontinuity of 7 mΩ and more for 1 microsecond maximum during Vibration & Shock Total Connector Resistance: Tin: 3 mΩ Max (less conductor resistance) Voltage drop was not evaluated
6.2.14	Reseating	Unmate / Mate connectors by hand three cycles	Maximum Change from Initial Tin: 2 mΩ

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6.3 ENVIRONMENTAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.3.1	Thermal Shock	Mate connectors expose to 10 cycles from -65 °C to 105 °C Per EIA-364-32 method A, condition II	Maximum Change from Initial: 2 mΩ
6.3.2	Cyclic Temperature & Humidity	Mate connectors: cycle per EIA-364-31: 24 cycles at temperature 25 ± 3 °C at 80 ± 5% relative humidity and 65 ± 3 °C at 50 ± 5% relative humidity; dwell time of 1.0 hour; ramp time of 0.5 hours.	2 milliohms MAXIMUM (change from initial) & DWV: No Breakdown at 500 VAC & Insulation Resistance: 1000 Megohms MINIMUM & Visual: No Damage
6.3.3	Temperature Life Tin Plated only	Mate Connectors expose to 240 hours at 105°C Per EIA-364-17 Method A	Maximum Change from Initial: 2 mΩ
6.3.4	Temperature Life Gold Plated Only	Mate Connectors expose to 1000 hrs (Test LLCR Per 250 hrs) at 120 °C Per EIA-364-17Method A	Maximum Change from Initial: 2 mΩ
6.3.5	Temperature Life (Preconditioning)	Mate Connectors expose to 120 hours at 105 °C Per EIA-364-17 Method A	Maximum Change from Initial: 2 mΩ
6.3.6	Thermal Cycling Tin Plated Only	Per EIA-364-110. Test condition A, Test duration A	Maximum Change from Initial: Tin: 2 mΩ

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6.3 ENVIRONMENTAL PERFORMANCE CONTINUED

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.3.7	Solderability Dip Test	Per Molex test method: SMES-152	Solder area shall have MIN. of 95% solder coverage
6.3.8	Reflow Solder Resistance	Convection reflow solder process 260 °C Max per AS-40000-5013	Visual: No damage
6.3.9	Wave Solder Resistance	Dip header terminal tails in solder Duration: 10 ± 0.5 seconds Solder temperature: 260 ± 5 °C Per AS-40000-5013	Visual: No damage
6.3.10	Mixed Flowing Gas (gold plated only)	EIA-364-65 with Class IIA Gas concentrations (gold plated only) 240 hours unmated, 96 hours mated.	Maximum Change from Initial: 2 mΩ Visual: no damage
6.3.11	Thermal Disturbance	EIA-364-1000.01 test group 4, cycle mated connector between 15°C and 85°C for 10 cycles at a rate of 2°C/min. humidity is not controlled.	Maximum Change from Initial: 2 mΩ Visual: no damage
6.3.12	Dust	Per EIA364-91(Being dust composition)	No evidence of physical damage

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7.0 TEST SEQUENCE GROUPS

Reliability Test Sequences Based on EIA-364-1000.01 & USCAR-2

Group I Temperature Life	Group II Thermal Shock	Group III Vibration	Group IV MFG (30μ" Gold only)	Group V Thermal Cycling
LLCR EIA-364-23	LLCR EIA-364-23	LLCR EIA-364-23	LLCR EIA-364-23	LLCR EIA-364-23
Durability (Pre-conditioning) EIA-364-09	Durability (Pre-conditioning) EIA-364-09	Durability (Pre-conditioning) EIA-364-09	Durability (Pre-conditioning) EIA-364-09	Durability (Pre-conditioning) EIA-364-09
LLCR	LLCR	LLCR	LLCR	LLCR
Temperature Life EIA-364-17	Thermal Shock EIA-364-32	Temperature Life (Pre-conditioning) EIA-364-17	Temperature Life (Pre-conditioning) EIA-364-17	Temperature Life (Pre-conditioning) EIA-364-17
LLCR	LLCR	LLCR	LLCR	LLCR
Reseating 3 cycles	Cyclic Temperature and Humidity EIA-364-31	Random Vibration EIA-364-28	Mixed Flow Gas Unmated Exposure 240 hours	Thermal Cycling EIA-364-110
LLCR	LLCR	LLCR	LLCR	LLCR
	Reseating 3 cycles		Mixed Flow Gas Mated Exposure 96 hours	Reseating 3 cycles
	LLCR		LLCR	LLCR

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Reliability Test Sequences Based on EIA-364-1000.01 & USCAR-2

Group VI Dust	Group VII Durability	Group VIII Temperature Life (Gold Only)	Group IX Uscar-2 Vibration and Shock	Individual Tests
LLCR EIA-364-23	DWV (EIA-364-20)	LLCR EIA-364-23	Visual Inspection / LLCR EIA-364-23	Connector Mating / Unmating Force
Durability (Pre-conditioning) EIA-364-09	LLCR EIA-364-23	Durability (Pre-conditioning) EIA-364-09	Durability (Pre-conditioning) EIA-364-09	Crimped Terminal Retention Force in Housing
Dust	Durability Tin Plated:25 Cycles Gold Plated:200 Cycles EIA-364-09	LLCR	LLCR	Thumb Latch Yield Strength
LLCR	LLCR	Temperature Life 120 °C, 250 hrs EIA-364-17	Mechanical shock with continuity monitoring V1	Header Pin Retention in Housing
Thermal Cycling (Disturbance) EIA-364-110	DWV (EIA-364-20)	LLCR	Random vibration with continuity monitoring V1	Wire pullout force from terminal (axial)
LLCR		Temperature Life 120 °C, 250 hrs EIA-364-17	LLCR	Wave / Reflow Solder Resistance
Reseating 3 cycles		LLCR	Voltage drop was not conducted due to test setup	PCB Peg Engagement Forces
LLCR		Temperature Life 120 °C, 250 hrs EIA-364-17	Visual Inspection	Back Shell Insertion/Retention Force
		LLCR		Temperature Rise / Voltage Drop
		Temperature Life 120 °C, 250 hrs EIA-364-17		
		LLCR		
		Crimped terminal Retention Force in Housing		

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8.0 SOLDER INFORMATION

Per SMES-152 and AS-40000-5013

*These specifications establish standard solderability test methods used to evaluate a products ability to accept molten solder. Solder Process Temperatures and Reflow Solder Profiles will vary based on application, equipment, solder paste, PCB thickness, etc.

8.1 SOLDER PROCESS TEMPERATURE

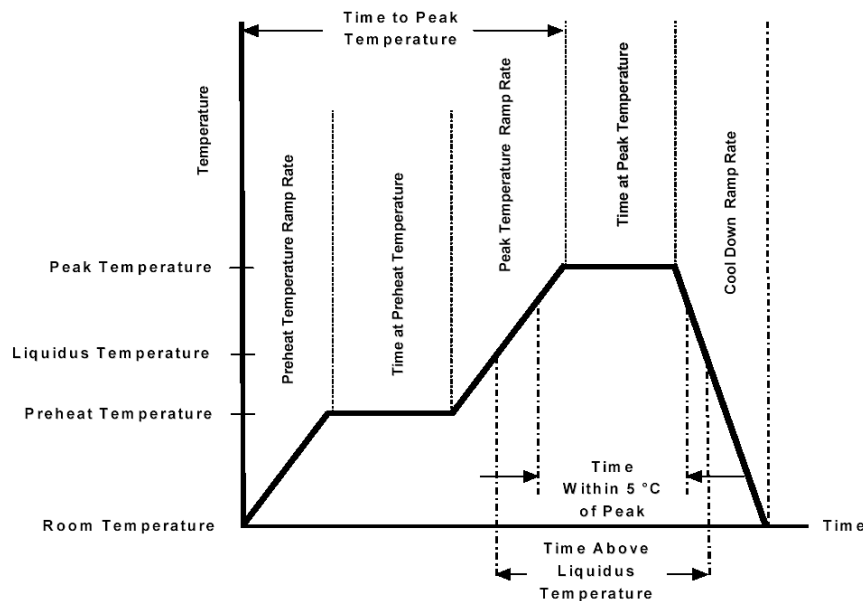
Wave Solder: 265°C Max
Reflow Solder: 260°C Max

[Molex Solderability Specification SMES-152](#)
(Click Here)

8.2 REFLOW SOLDERING PROFILE

(This profile is per AS-40000-5013 and is provided as a guideline only. Please see notes for additional information)

[Molex Connector Heat Resistance Specification AS-40000-5013](#)
(Click Here)



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Description	Requirement
Average Ramp Rate	3°C/sec Max
Preheat Temperature	150°C Min to 200°C Max
Preheat Time	60 to 180 sec
Ramp to Peak	3°C/sec Max
Time over Liquidus (217°C)	60 to 150 sec
Peak Temperature	260 +0/-5°C
Time within 5°C of Peak	20 to 40 sec
Ramp - Cool Down	6°C/sec Max
Time 25°C to Peak	8 min Max

9.0 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

[Mega-Fit Power Connector System Web Page](#)

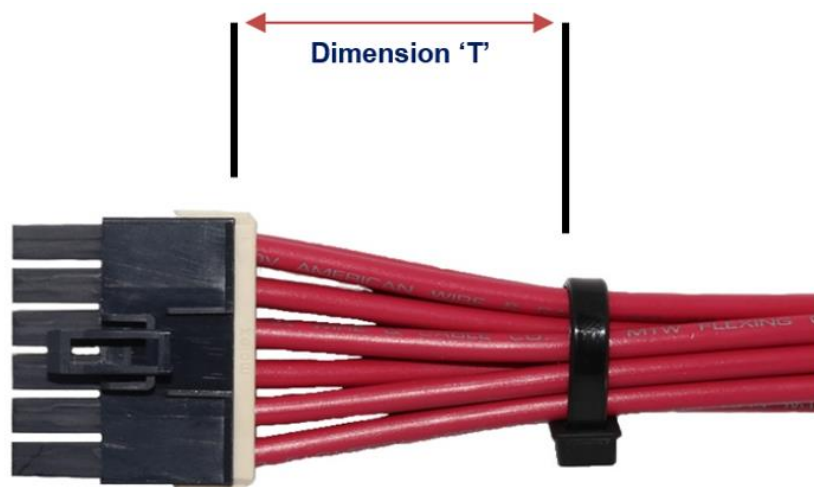
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10.0 CABLE TIE AND / OR TWIST TIE LOCATION

Circuit Sizes	Dimension T Minimum
2	.50" (12.7 mm)
3-6	.75" (19.1 mm)
7-8	1.00" (25.4 mm)
10-12	1.25" (31.75 mm)



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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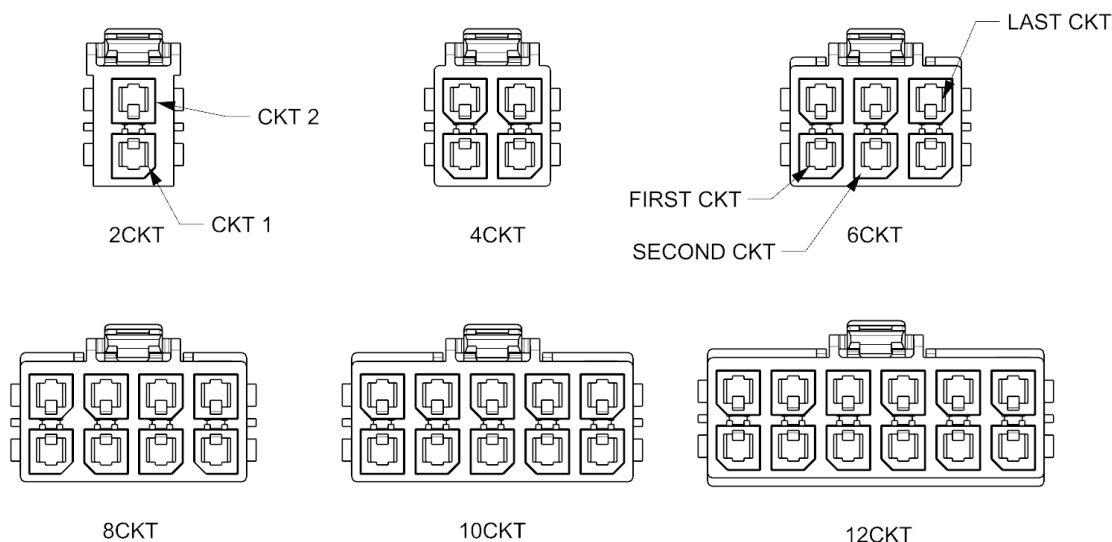
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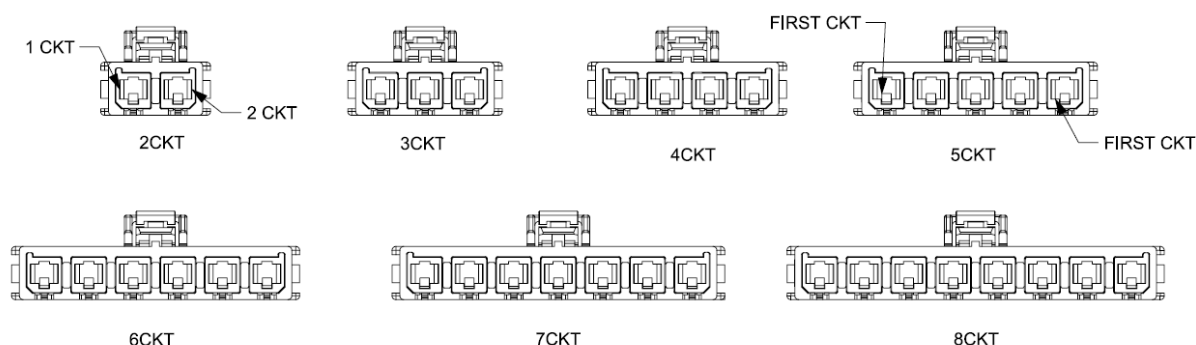
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11.0 POLARIZATION AND KEYING OPTIONS

11.1 DUAL ROW RECEPTACLE (Series: [171692](#))



11.2 SINGLE ROW RECEPTACLE (Series: [200456](#))



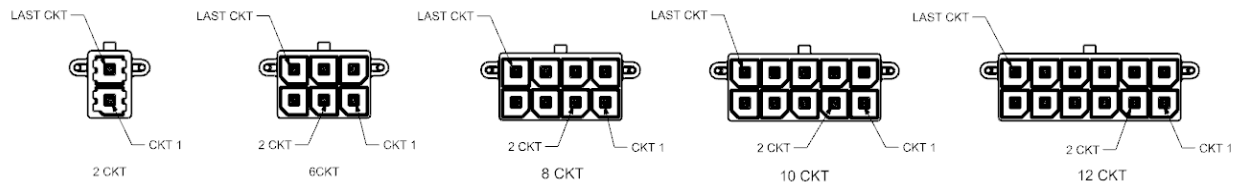
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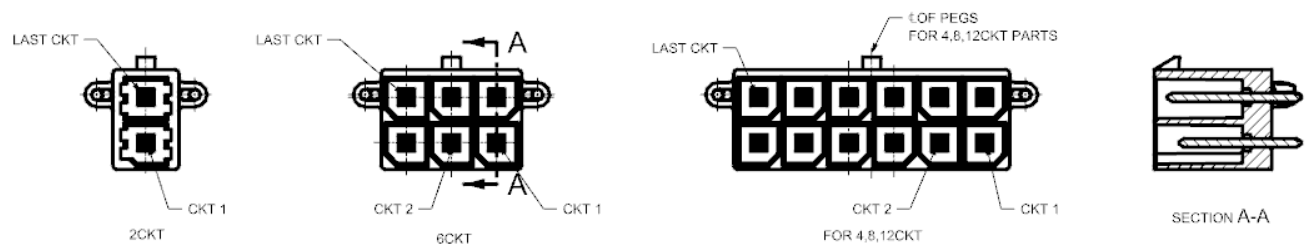


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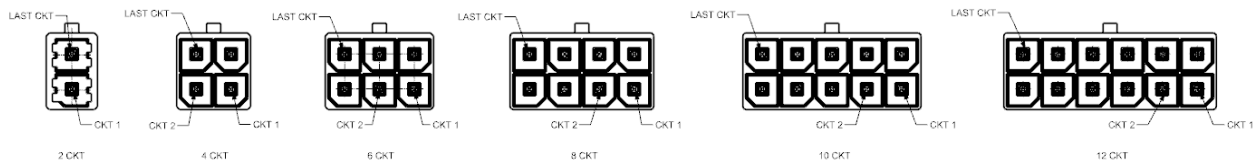
11.3 VERTICAL HEADER DUAL ROW WITH CRUSH PEGS (Series: [76829](#) and [172065](#))



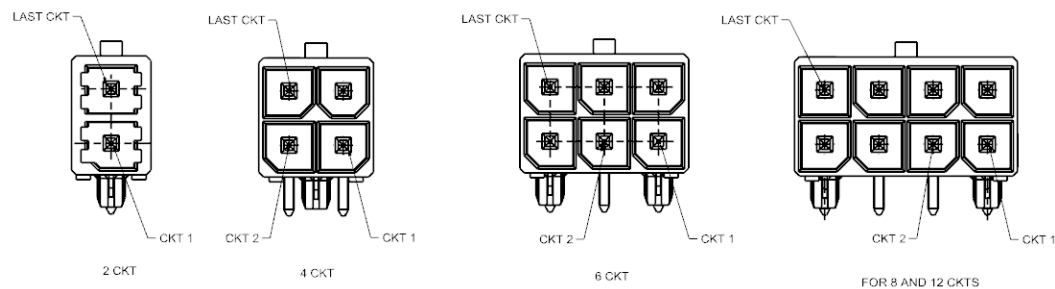
11.4 VERTICAL HEADER DUAL ROW WITH CRUSH PEGS & MFBL (Series: [171597](#))



11.5 VERTICAL HEADER DUAL ROW WITH CRUSH PEGS (Series: [76829](#) and [172065](#))



11.6 RIGHT ANGLE HEADER DUAL ROW (Series: [76825](#) and [172064](#))



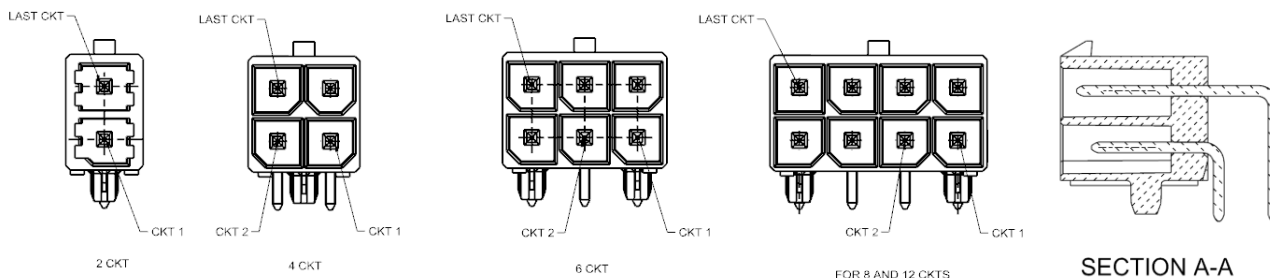
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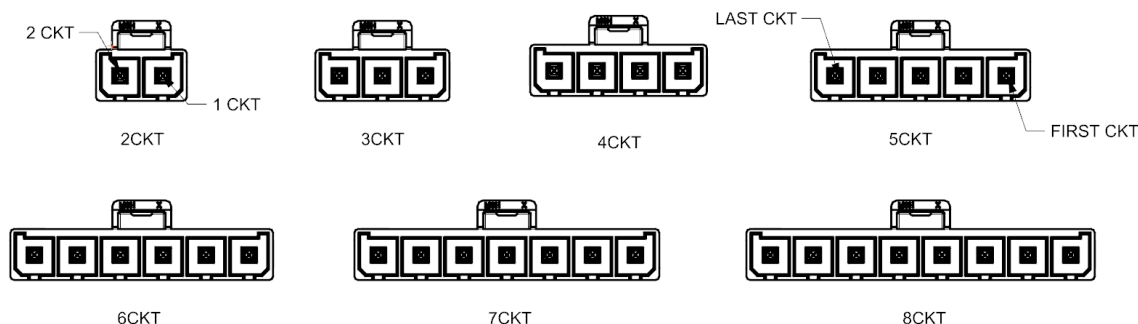


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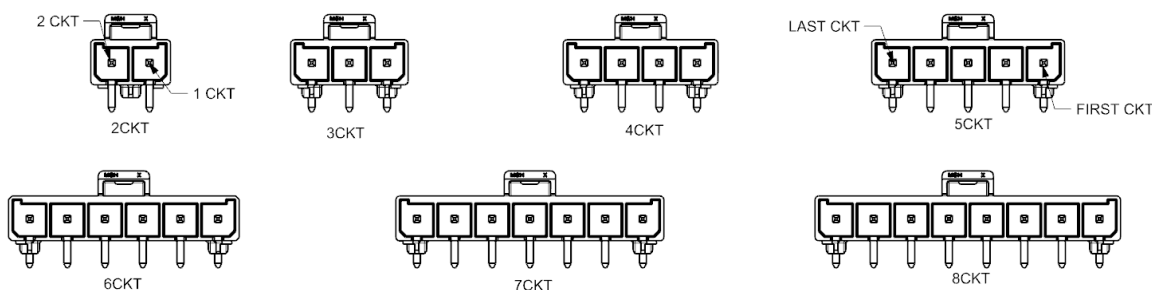
11.7 RIGHT ANGLE HEADER DUAL ROW SOLDER WITH MFBL (Series: [171596](#))



11.8 VERTICAL HEADER SINGLE ROW WITH CRUSH PEGS (Series: [200241](#))



11.9 RIGHT ANGLE HEADER SINGLE ROW WITH CRUSH PEGS (Series: [200241](#))



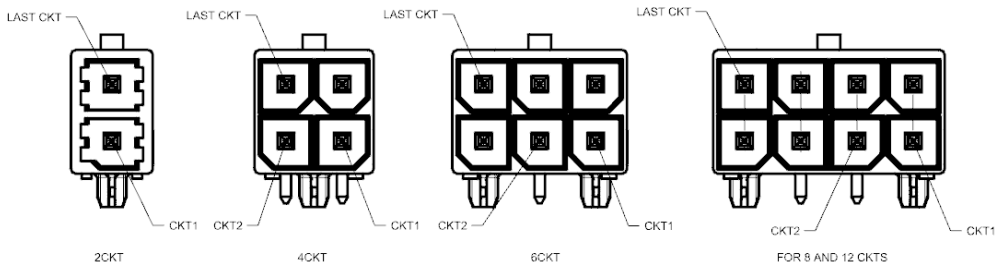
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11.10 RIGHT ANGLE HEADER DUAL ROW (Series: [215038](#))



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