


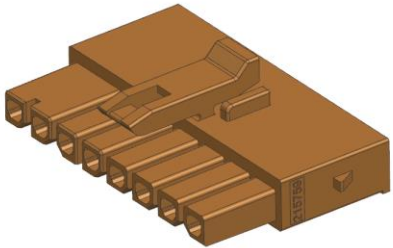
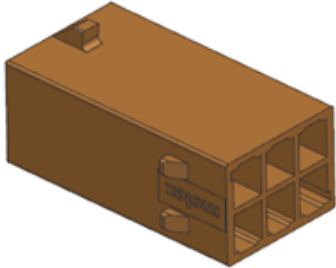
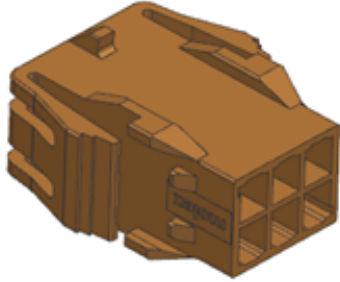


MICRO-FIT + SOLUTION

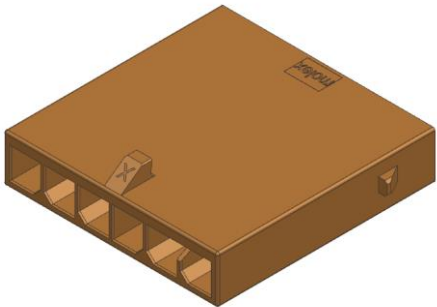
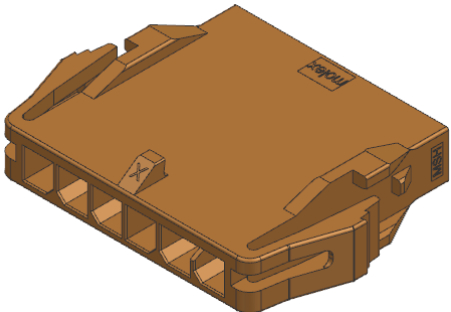
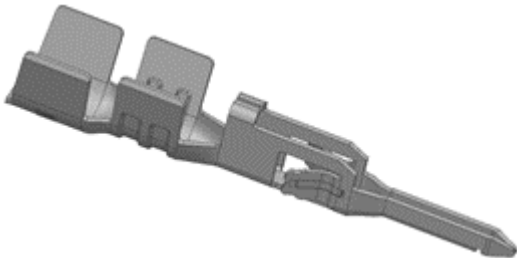
WIRE TO WIRE CONNECTOR SYSTEM

Female Crimp Terminal	TPA
	
Series: 206460	Series: 206462

Receptacle Housing (Dual Row)	Receptacle Housing (Single Row)
	
Series: 206461	Series: 215759
Plug Housing (Dual Row Hanging Free)	Plug Housing (Dual Row Panel Mount)
	
Series: 215922	Series: 215922

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Plug Housing (Single Row Hanging Free)	Plug Housing (Single Row Panel Mount)
	
Series: 223794	Series: 223794
Plug terminal	
	
Series: 215953	

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1.0 SCOPE

This Product SPEC covers the Micro-Fit Plus 3.00 mm (.118 inch) centerline (pitch) Wire to Wire connector system with gold and tin plating. Receptacle and plug are terminated with 16 to 30 AWG wire using crimp technology.

2.0 PRODUCT DESCRIPTION

2.1 DESCRIPTION, SERIES NUMBER, AND LINKS

DESCRIPTION	SERIES NUMBER
Female Crimp Terminal	206460
Receptacle Housing, Dual Row	206461
Receptacle Housing, Single Row	215759
TPA	206462
Plug housing, Dual Row	215922
Plug housing, Single Row	223794
Plug Crimp Terminal	215953

2.2 DIMENSIONS, MATERIALS, PLATINGS

See the appropriate sales drawings for the information on dimensions, materials, plating, and markings.

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: TBD

3.0 APPLICABLE DOCUMENTS AND SPECIFICATION

3.1 MOLEX DOCUMENTS

Micro-Fit Plus Connector System Test summary 2159530000-TS
Micro-Fit Plus Connector System Application Summary 2159530000-AS
Molex Quality Crimping Handbook Order No. TBE
[Molex Solderability Specification SMES-152](#)
[Molex Moisture Technical Advisory AS-45499-001](#)
[Molex Package Handling Specification 454990100-PK](#)

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ATS – Application Tooling Specification*

*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

3.2 INDUSTRY DOCUMENTS

EIA-364-1000

UL-60950-1

UL-1977

4.0 ELECTRICAL PERFORMANCE RATINGS

4.1 VOLTAGE

600 Volts AC (RMS) or DC.

* This connector voltage meets the connector level provided by the safety agency.

4.2 APPLICABLE WIRES

WIRE GAUGE	INSULATION DIAMETER
16 AWG	2.00mm (.079 inch) MAXIMUM
18 AWG	1.85 mm (.073 inch) MAXIMUM
20 AWG	1.85 mm (.073 inch) MAXIMUM
22 AWG	1.85 mm (.073 inch) MAXIMUM
24 AWG	1.85 mm (.073 inch) MAXIMUM
26 AWG	1.27 mm (.050 inch) MAXIMUM
28 AWG	1.27 mm (.050 inch) MAXIMUM
30 AWG	1.27 mm (.050 inch) MAXIMUM

4.3 CURRENT RATINGS

Current rating is application dependent and may be affected by the wire rating such as listed in UL-60950-1. Each application should be evaluated by the end user for compliance to specific safety agency requirements. The ratings listed in the chart below are per Molex test method based on a 30°C maximum temperature rise over ambient temperature and are provided as a guideline. Appropriate de-rating is required based on circuit size, ambient temperature, gross heating from adjacent modules/components and other factors that influence connector performance. Wire size, insulation thickness, stranding, tin coated or bare copper, wire length & crimp quality are other factors that influence current rating.

Wire to Wire Current Rating (Amp Max.) (As tested with tinned copper wire)							
Connector fully loaded with all circuits powered							
AWG Wire Size	Circuit Size (Single Row)						
	2	3	4	5	6	7	8
16	11.5	10.8*	10.0*	9.0	8.8*	8.6*	8.5
18	9.2*	8.5*	8.0*	7.5*	7.3*	7.1*	7.0*
20	7.8*	7.5*	7.0*	6.5*	6.3*	6.1*	6.0*
22	6.5	6.2*	5.9*	5.5*	5.3*	5.1*	5.0
24	5.6*	5.4*	5.2*	5.0*	4.8*	4.6*	4.5*
26	4.8*	4.7*	4.6*	4.5*	4.3*	4.1*	4.0*
28	3.9*	3.7*	3.6*	3.5*	3.3*	3.1*	3.0*
30	3.0	2.8*	2.6*	2.5	2.3*	2.1*	2.0

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Wire to Wire Current Rating (Amp Max.) (As tested with tinned copper wire)												
Connector fully loaded with all circuits powered												
AWG Wire Size	Circuit Size (Dual Row)											
	2	4	6	8	10	12	14	16	18	20	22	24
16	10.5	9.8*	9.1*	8.4*	7.7*	7.0	6.9*	6.8*	6.8*	6.7*	6.6*	6.5
18	9.2*	8.8*	8.5*	8.1*	7.8*	7.4*	7.1*	6.7*	6.4*	6.0*	5.7*	5.3*
20	7.8*	7.5*	7.2*	6.8*	6.5*	6.2*	5.8*	5.5*	5.2*	4.8*	4.5*	4.2*
22	6.5	6.2*	5.9*	5.5*	5.2*	4.9*	4.6*	4.3*	4.0*	3.6*	3.3*	3.0
24	5.6*	5.4*	5.2*	5.0*	4.8*	4.6*	4.3*	3.9 *	3.5*	3.2*	2.9*	2.6*
26	4.8*	4.6*	4.4*	4.2*	4.0*	3.8*	3.5*	3.2*	2.9*	2.6*	2.3*	2.1*
28	3.9*	3.7*	3.6*	3.4*	3.2*	3.0*	2.8*	2.6*	2.4*	2.2*	2.0*	1.8*
30	3.0	2.8*	2.6*	2.4*	2.2*	2.1*	2.0*	1.9*	1.8*	1.7*	1.6*	1.5

*Interpolated Values

Temperature Rise vs. Current per EIA-364-70
 Tested with UL1061 Tinned Wire.
 Data is for all circuits powered.
 “*” extrapolated from test data.

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4.4 TEMPERATURE

Operating Temperature Range* (includes T-Rise from applied current): - 40°C to + 105°C
Field Temperature and Field Life: 65° C for 10 years (based on EIA-364-1000, table 8)

Note: Temperature life test duration (section 6.3 item 1) assumes 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 section 6.2 item 5 of this specification).
Durability per EIA-364-09

4.6 GLOW WIRE SERIES

206461
206462
215953
215922
223794*

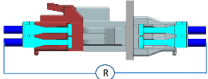
*Under qualification

5.0 QUALIFICATION

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

6.0 PERFORMANCE

6.1 ELECTRICAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.1.1	Contact Resistance (LLCR) 	EIA 364-23 Subject mated contacts assembled in housing to 20 mV maximum open circuit at 100 mA maximum. Wire resistance shall be removed from the measured value. * Never cross mate gold plated terminals to tin plated terminals.	10 milliohms Max(initial)

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6.1.2	Insulation Resistance Test group 3	EIA 364-21 After 500 VDC for 1 minute, measure the insulation resistance between the adjacent contacts of mated and unmated connector assemblies.	1000 Mega ohms MINIMUM
6.1.3	Glow Wire Test	IEC 60695-2-12 & IEC 60695-2-13 Test at temperature of 750 °C & 850 °C	Flames or glowing of the test specimen extinguish within 30 s after removal of the glow-wire, and there is no ignition of the wrapping tissue placed underneath the test specimen
6.1.4	Dielectric Withstanding Voltage	EIA 364-20 Method B Apply 2200V for 1minute between adjacent terminals.	No breakdown current leakage <5 mA
6.1.5	Temperature Rise & Voltage drop (via current cycling)	EIA 364-70 Method B 96hr steady state, 240hr current cycling, 96hr steady state using 2ckt with 16 AWG at rated current	Temperature rise: 30 °C Max.

6.2 MECHANICAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.2.1	Visual and dimensional inspections	EIA-364-18 Visual, dimensional and functional per applicable quality inspection plan.	Meet Product drawing requirements.
6.2.2	Crimp Terminal Retention Force (in housing w/o TPA)	Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm per minute. EIA-364-29C, Method C	24.5 N Minimum retention force
6.2.3	Crimp Terminal Retention Force (in housing with TPA)	Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm per minute. EIA-364-29C, Method C	40 N Minimum retention force
6.2.4	Crimp Terminal Insertion Force (into Housing)	Apply an axial insertion force on the terminal at a rate of 25 ± 6 mm. Per EIA-364-05	10.0 N MAXIMUM insertion force
6.2.5	Durability Test Group 7 (See section 7.0)	Mate connectors up to 25 cycles at a maximum rate of 10 cycles per minute Per EIA-364-09	Tin: 20 milliohms Maximum Gold: 10 milliohms MAXIMUM (change from initial)

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6.2.6	Durability (precondition)	Mate connectors 3 cycles for tin plated and 5 cycles for gold plated at a maximum rate of 10 cycles per minute Per EIA-364-09	Tin: 20 milliohms Maximum Gold: 10 milliohms MAXIMUM (change from initial)
6.2.7	Vibration (Random) Shock (Mechanical) EIA-364-1000 Test Group 3 (See section 7.0)	Mate connectors and vibrate per EIA 364-28, test condition VII, Letter D. Test Duration: 15 minutes each axis. 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 H	Tin: 20 milliohms MAXIMUM Gold: 10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
6.2.8	Wire retention force (wire to crimp terminal, by application tool)	Apply an axial pullout force on the wire at a rate of 25 ± 6 mm. Per EIA-364-08	16 AWG: 89.0N Min; 18 AWG: 89.0N Min; 20 AWG: 57.8N Min; 22 AWG: 35.6N Min; 24 AWG: 22.2N Min; 26 AWG: 13.3N Min; 28 AWG: 8.9N Min; 30 AWG: 6.6N Min;
6.2.9	Connector Mate and Un-mate Forces (receptacle to plug W/O latch)	Mate and un-mate connector (male to female) at a rate of 25 ± 6 mm per minute. EIA-364-13E, Method A	Tin: 3.0 N MAXIMUM mate force per circuit & 1.0 N MINIMUM un-mate force per circuit; Gold: 2.0 N MAXIMUM mate force per circuit & 0.6 N MINIMUM un-mate force per circuit.
6.2.10	Housing Locking Mechanism Strength	Exert an axial force at a rate of 13 mm per minute to separate the housing halves EIA-364-98	58 N MIN.
6.2.11	Reseating	Un-mate/mate connectors by hand three cycles	10 milliohms MAXIMUM (change from initial) & Visual: No Damage
6.2.12	Panel mount retention force	Insert connector into panel. Apply an axial force on the connector in the opposite direction of insertion at a rate of 25+/-6mm per minute.	Dual Row:70N Minimum Single Row:35N Minmum
6.2.13	Polarization effectiveness	Mate wrong polarization connector (male to female) at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	Tin: TBD

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6.3 ENVIRONMENTAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT										
6.3.1	Temperature life EIA-364-1000 Test Group 1 (See section 7.0)	Mate connectors; expose to : 240 hours at 105 ± 2 °C. Per EIA-364-17, Method A	Tin: 20 milliohms MAXIMUM Gold: 10 milliohms MAXIMUM (change from initial) & Visual: No Damage										
6.3.2	Temperature life (precondition)	Mate connectors; expose to : 120 hours at 105 ± 2 °C. Per EIA-364-17, Method A	Tin: 20 milliohms MAXIMUM Gold: 10 milliohms MAXIMUM (change from initial) & Visual: No Damage										
6.3.3	Shock (Thermal) EIA-364-1000 Test Group 2A & 2B (See section 7.0)	Mate connectors; expose to 5 cycles of: <table><tr><th>Temperature °C</th><th>Duration(Minutes)</th></tr><tr><td>-4 + 0/-3</td><td>30</td></tr><tr><td>+25 ± 10</td><td>5 MAXIMUM</td></tr><tr><td>+105 + 3/-0</td><td>30</td></tr><tr><td>+25 ± 10</td><td>5 MAXIMUM</td></tr></table> EIA-364-32, Test Condition VIII	Temperature °C	Duration(Minutes)	-4 + 0/-3	30	+25 ± 10	5 MAXIMUM	+105 + 3/-0	30	+25 ± 10	5 MAXIMUM	Tin: 20 milliohms MAXIMUM Gold: 10 milliohms MAXIMUM (change from initial) & Visual: No Damage
Temperature °C	Duration(Minutes)												
-4 + 0/-3	30												
+25 ± 10	5 MAXIMUM												
+105 + 3/-0	30												
+25 ± 10	5 MAXIMUM												
6.3.4	Cyclic Temperature & Humidity EIA-364-1000 Test group 2A & 2B (See section 7.0)	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.	Tin: 20 milliohms MAXIMUM Gold: 10 milliohms MAXIMUM (change from initial) & Dielectric Withstanding Voltage: No Breakdown at 500 VAC & Insulation Resistance: 1000 Megohms MINIMUM & Visual: No Damage										
6.3.5	Thermal Cycling EIA-364-1000 Test group 5 (tin plated only) (See section 7.0)	Cycle the connector between 15 ± 3 °C and 85 ± 3 °C. Ramps should be a minimum of 2 °C per minute, and dwell times should ensure contacts reach the temperature extremes. Humidity is not controlled. 500 cycles.	Tin: 20 milliohms MAXIMUM (change from initial) & Visual: No Damage										
6.3.6	Cold Resistance	Mate connectors: Duration: 96 hours; Temperature: -40 ± 3 °C	Tin: 20 milliohms MAXIMUM Gold: 10 milliohms MAXIMUM (change from initial) & Visual: No Damage										

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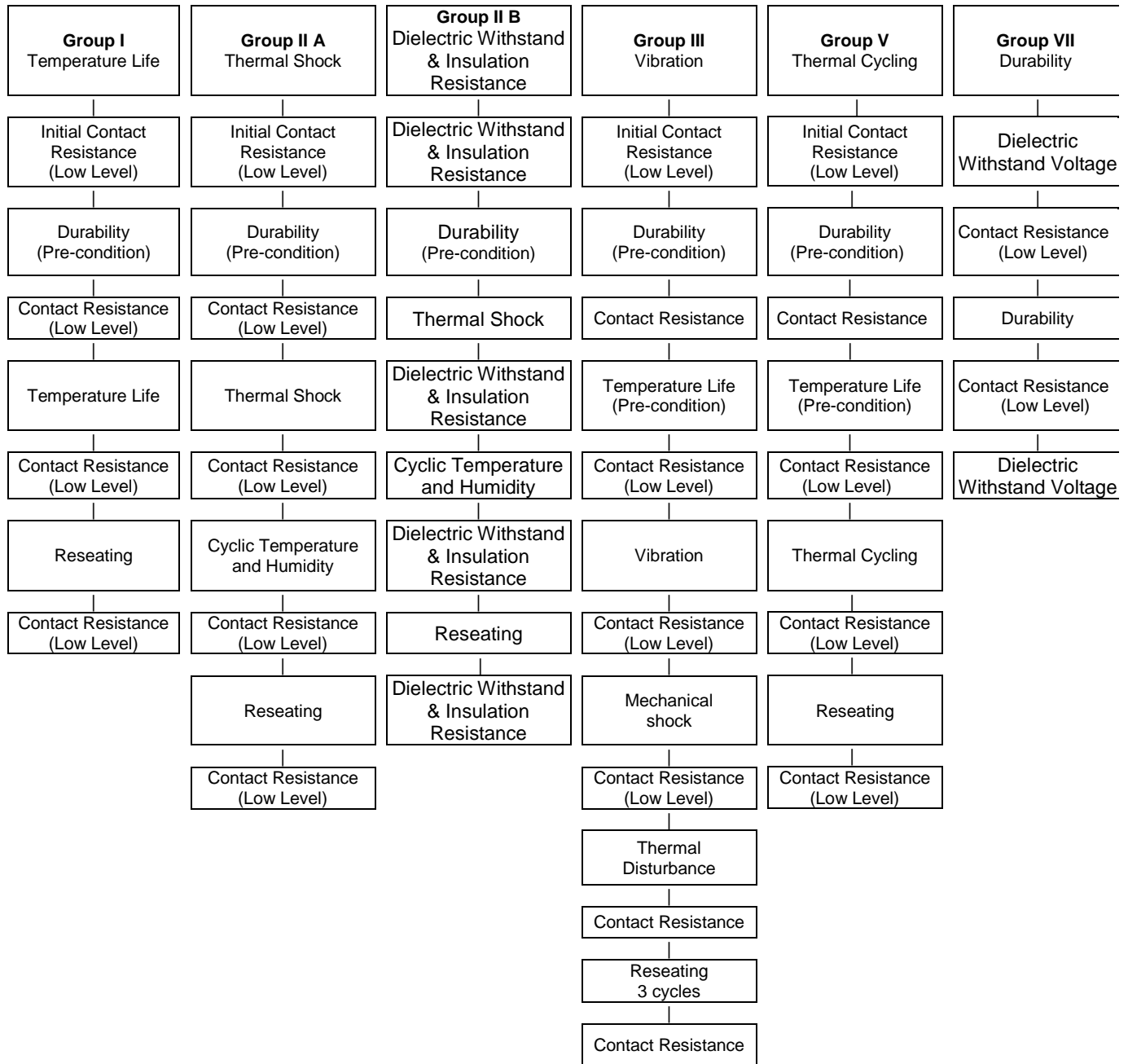
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7.0 TEST SEQUENCE

Reliability Test Sequences Per EIA-364-1000



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Individual Tests

Connector Mate and Un-mate Forces

Crimp Terminal Insertion Force

Crimp Terminal Retention Force in housing

Housing Locking Mechanism Strength

Cold resistance

Temperature Rise

T-Rise Profiling

Steady State Temperature Rise

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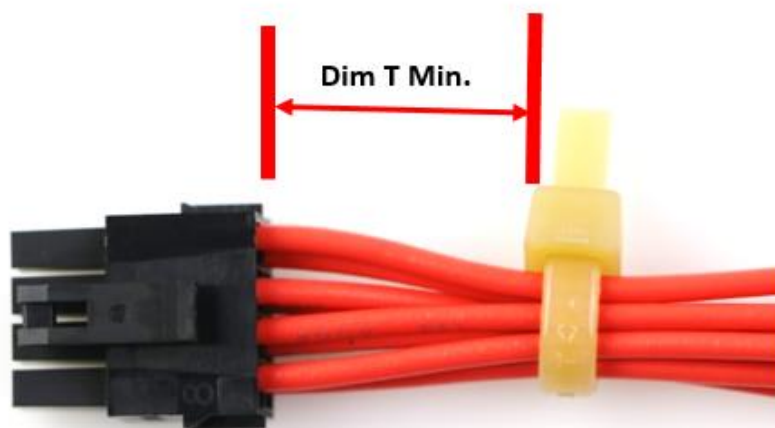
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8.0 PACKAGING

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 Size			Dim T Min.
2	4	6	0.50" (12.7mm)
8			0.75" (19.1mm)
10	12		1.00" (25.40mm)
14	16		1.25" (31.75mm)
18	20		1.50" (38.09mm)
22	24		1.75" (44.45mm)



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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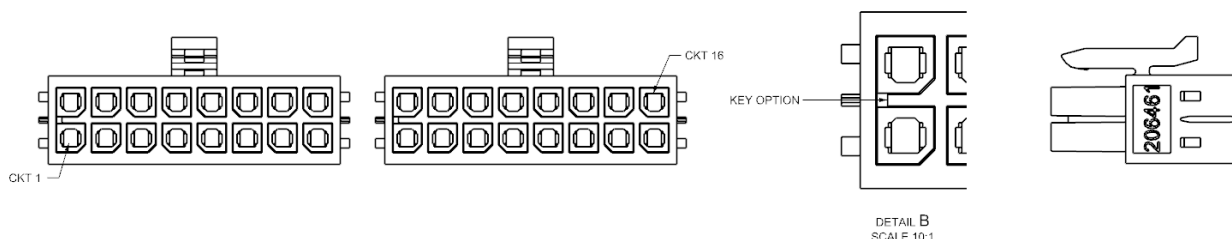


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DOCUMENT NUMBER: 2159530000-PS		DOC TYPE: PS	DOC PART: 000	CREATED / REVISED BY: VENKAS5		CHECKED BY:	APPROVED BY:	

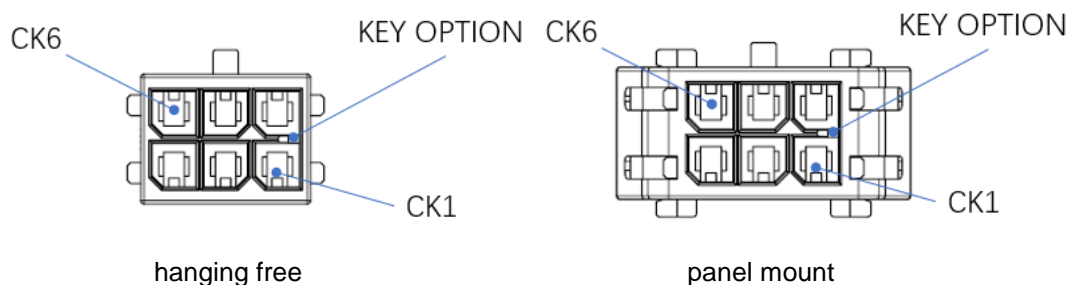
10.0 POLARIZATION AND KEYING OPTIONS

SEE SALES DRAWING FOR POLARIZATION DETAILS

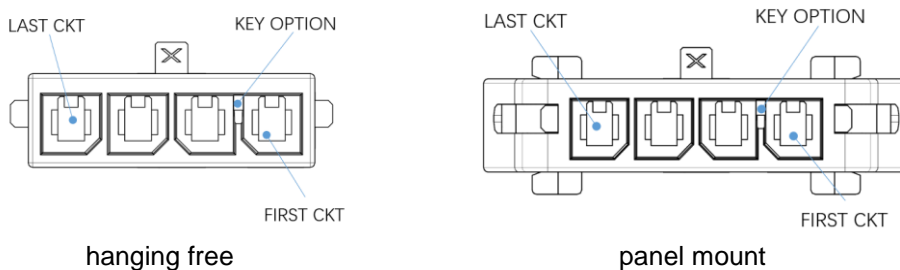
10.1 Dual Row Receptacle (Series: [206461](#))



10.2 Dual Row Plug Housing (Series: 215922)



10.3 Single Row Plug Housing (Series: 223794)



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