MULTICATTM MID POWER Wire-To-Wire AND Wire-To-Board CONNECTOR SYSTEM

	t								
Series: <u>202936</u> Series: <u>202935</u>									
Receptacle Housing Plug Housing									
	-								
Series: <u>205926</u> Series: <u>205925</u>									
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Series:	205927		Series: <u>205929</u>	
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PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers the <u>3.60 mm (.141 inch)</u> pitch (in both X and Y direction) connector series terminated with <u>20 to 28</u> AWG wire using <u>crimp</u> technology with <u>gold</u> plating.

This Product Specification also covers the <u>3.60</u> mm (<u>.141</u> inch) pitch (in both X and Y direction) printed circuit board (PCB) connector series with <u>gold</u> plating.

2.0 PRODUCT DESCRIPTION

2.1 DESCRIPTION, SERIES NUMBER, AND LINKS

DESCRIPTION	SERIES NUMBER	
MULTICAT MID POWER FEMALE CRIMP CONTACT 20-28 AWG	<u>202936</u>	
MULTICAT MID POWER MALE CRIMP CONTACT 20-28 AWG	<u>202935</u>	
MULTICAT MID POWER RECEPTACLE HOUSING 2X4 KEY A BLACK		
MULTICAT MID POWER RECEPTACLE HOUSING 2X4 KEY B NATURAL		
MULTICAT MID POWER RECEPTACLE HOUSING 2X10 KEY A BLACK		
MULTICAT MID POWER RECEPTACLE HOUSING 2X10 KEY B NATURAL	205926	
MULTICAT MID POWER RECEPTACLE HOUSING WITH CPA 2X4 KEY A BLACK	203320	
MULTICAT MID POWER RECEPTACLE HOUSING WITH CPA 2X4 KEY B NATURAL		
MULTICAT MID POWER RECEPTACLE HOUSING WITH CPA 2X10 KEY A BLACK		
MULTICAT MID POWER RECEPTACLE HOUSING WITH CPA 2X10 KEY B NATURAL		
MULTICAT MID POWER VERTICAL HEADER 2X4 KEY A BLACK		
MULTICAT MID POWER VERTICAL HEADER 2X4 KEY B NATURAL	205927	
MULTICAT MID POWER VERTICAL HEADER 2X10 KEY A BLACK	205927	
MULTICAT MID POWER VERTICAL HEADER 2X10 KEY B NATURAL		
MULTICAT MID POWER BACKSHELL 2X4 BLACK 20-28 AWG		
MULTICAT MID POWER BACKSHELL 2X4 NATURAL 20-28 AWG	205020	
MULTICAT MID POWER BACKSHELL 2X10 BLACK 20-28 AWG	<u>205929</u>	
MULTICAT MID POWER BACKSHELL 2X10 NATURAL 20-28 AWG		
MULTICAT MID POWER PLUG HOUSING 2X4 KEY A BLACK		
MULTICAT MID POWER PLUG HOUSING 2X4 KEY B NATURAL	205025	
MULTICAT MID POWER PLUG HOUSING 2X10 KEY A BLACK	<u>205925</u>	
MULTICAT MID POWER PLUG HOUSING 2X10 KEY B NATURAL		
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PRODUCT SPECIFICATION

2.2 DIMENSIONS, MATERIALS, PLATINGS

Refer Sales Drawings 2059250000-SD, 2059260000-SD, 2059271070-SD, 2059290000-SD, 2029350000-SD and 2029360000-SD.

2.3 ENVIRONMENTAL CONFORMANCE

To find product compliance information:

a. Go to molex.com

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- 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 / cUL File Number: E29179

3.0 APPLICABLE DOCUMENTS AND SPECIFICATION

3.1 MOLEX DOCUMENTS

MultiCat In-Line Power Connector System Test summary 2059250000-TS-000 MultiCat In-Line Power Connector System Application summary 2059250000-AS-000 Molex Quality Crimping Handbook Order No. 63800-0029 Molex Solderability Specification SMES-152 Molex Heat Resistance Specification AS-40000-5013 Molex Package Handling Specification 454990100-PK 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

	PRE-RELEASE PRE-RENCE REFERENCY USE ONLY									
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PRODUCT SPECIFICATION

4.0 ELECTRICAL PERFORMANCE RATINGS

4.1 VOLTAGE

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500 Volts AC/DC

4.2 APPLICABLE WIRES

AWG	Nominal Insulation Diameter
20	1.60 mm
22	1.40 mm
24	1.20 mm
26	1.10 mm
28	0.90 mm

4.3 CURRENT RATING (MAXIMUM AMPERES)

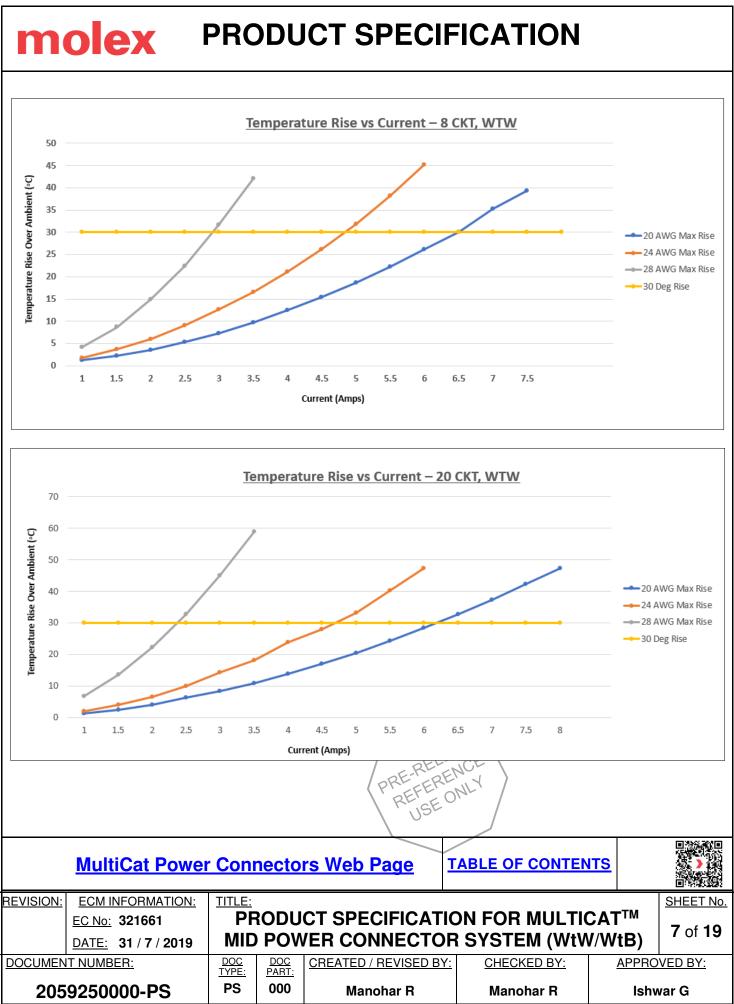
Note: Ratings shown represent *MAXIMUM* current carrying capacity of a fully loaded connector with all circuits powered using **UL10086** stranded wire. Ratings are based on a 30°C maximum temperature rise limit over ambient (see section 6.1.4 for specifications). Current is dependent on connector size, ambient temperature, printed circuit board characteristics and related factors. Actual current rating is application dependent and should be evaluated for each use.

Note: PCB trace design can greatly affect temperature rise results in Wire-to-Board applications.

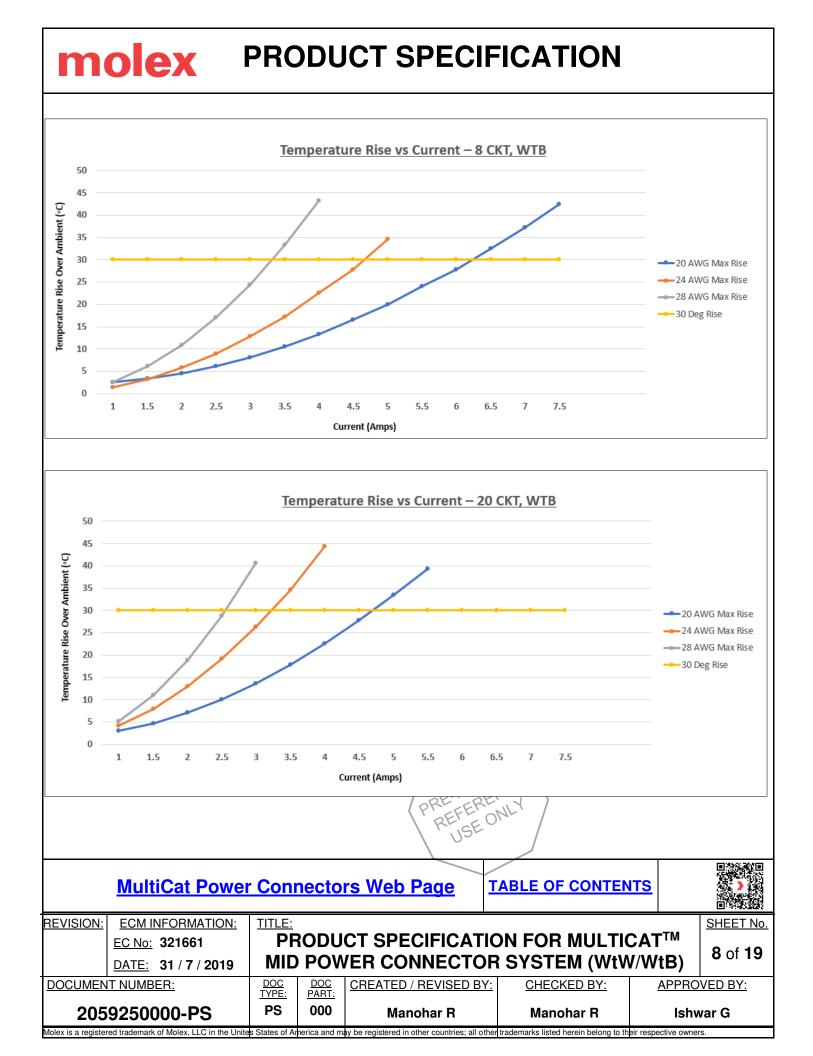
	8 CI	RCUIT	20 CIRCUIT		
	Wire-to-Wire	Wire-to-Board	Wire-to-Wire	Wire-to-Board	
20 AWG	6.5 A	6.0A	6.0 A	4.5A	
22 AWG	5.5 A#	5.0A#	5.0 A#	4.0A#	
24 AWG	5.0 A	4.5A	4.5 A	3.0A	
26 AWG	4.0 A#	4.0A#	3.5 A#	3.0A#	
28 AWG	3.0 A	3.0A	2.5 A	2.5A	

#Estimated

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4.4 **TEMPERATURE**

Operating Temperature Range: - 40°C to + 150°C

4.5 DURABILITY

Plating Type	Number of Cycles
Gold Plated	500

As tested in accordance with EIA-364-1000 test method (see sec 6.2.11 of this specification). Durability per EIA-364-09

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	Low Lovel Contact Resistance (LLCR)	Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA. EIA-364-23B	10 mΩ MAXIMUM [initial]
6.1.2	Insulation Resistance	Mate connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground. EIA-364-21D	1000 MΩ MINIMUM
6.1.3	Dielectric Withstanding Voltage (DWV)	Mate connectors: apply a voltage of 2000 VAC for 1 minute between adjacent terminals and between terminals to ground. EIA-364-20E, Method B	No breakdown; current leakage < 5 mA
6.1.4	Temperature Rise versus current (Step Profiling)	Mate connectors: measure the temperature rise at the rated current. EIA-364-70B, Method 2	Temperature rise: +30 °C MAXIMUM [over ambient]
6.1.5	Temperature Rise versus current (18-day Stability)	Mate connectors: measure the temperature rise at the rated current, 2 measurements per day, test method 3 (30 Min on & 15 Min off) per EIA-364-55 Test condition A	Temperature rise: +30 °C MAXIMUM [over ambient]

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6.2 MECHANICAL PERFORMANCE

	ITEM	DESCRIP	ΓΙΟΝ		TEST CONDITION	N	REQU	IREMENT	
	6.2.1	Connector and Unmate Fo [Initial cy <i>Latch disa</i>	orces cle]		e and unmate connecto female) at a rate of 25 ± (1 ± ¼ inch) per min EIA-364-13E, Metho	6 mm ute.	MAXIMUM 0.2 N MINIMUM u	ax (0.76 lbf) mate force per CKT and (0.044 lbf) nmate force per CKT	
	6.2.2	Crimp Terr Insertion F (into Hous	orce		ply an axial insertion for terminal at a rate of 25 ± (1 ± ¼ inch). EIA-364-05B			(7.86 lbf) insertion force	
		Crimp Terr	minal		pullout force on the terr			11.24 lbf) retention force	
	6.2.3	Retention F (in Housi	Force	ľ	nousing at a rate of 25 ± (1 ± ¼ inch) per minu EIA-364-29C, Method	after High Temperature exposure (see item 6.3.24) 50 N (11.24 lbf) MINIMUM retention force			
	6.2.4	Termin Push Fo From Vertical	rce		pullout force on the terr nousing at a rate of 25 ± (1 ± ¼ inch) per minu EIA-364-29C, Method	6 mm ute.	40 N (8.99 lbf) MINIMUM retention force		
	6.2.5	Housing Lo Mechanism S (Initial)	Strength		rt an axial force at a rate or minute (0.5 inch per m separate the housing h EIA-364-98	inute) to		(33.72 lbf) retention force	
	6.2.6	Housing Lo Mechanism S (after 500 C	Strength		rt an axial force at a rate or minute (0.5 inch per m separate the housing h EIA-364-98	inute) to	150 N (33.72 lbf) MINIMUM retention force		
	6.2.7	Connector A Feedba		fee	onnector lock must prov dback during connector SCAR-2, Rev 6, Paragra	mating.	7 dB ov	er Ambient	
	6.2.8	Connector P Assurance Insertion F	(CPA)	preloa	The force to insert the CPA from the preload (as shipped) position to the final position at a rate of 50 ± 6 mm (2 ± 1/4 inch) per minute.				
					REFE	ONLY			
	<u>Multi</u>	Cat Power	r Conr	necto	rs Web Page	TABLE O	F CONTEN	TS S	
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6.2 **MECHANICAL PERFORMANCE CONTINUED**

ITEM	DESCRIPTION	TEST CONDITION	REQUIRE	MENT	
6.2.9	Connector Position Assurance (CPA) Extraction Force	The force to extract the CPA from the final position to the preload position at a rate of 50 ± 6 mm $(2 \pm \frac{1}{4} \text{ inch})$ per minute.	30 N (6.74 lbf) Maximum Extraction Force		
			AWG	MINIMUM pullout force	
			20	80 N (17.98 lbf)	
6.2.10	Wire Pullout Force (Axial)	Apply an axial pullout force on the wire at a rate of 25 ± 6 mm	22	60 N (13.48 lbf)	
0.2.10		(1 ± ¼ inch). EIA-364-08B	24	35 N (7.86 lbf)	
			26	15 N (3.37 lbf)	
			28	11 N (2.47 lbf)	
6.2.11	Durability EIA-364-1000 Test Group 7 (See section 7.0)	Mate and unmate connectors up to 500 cycles at a rate of 300 cycles per hour. Actuate housing latch mechanism for each cycle. EIA-364-09	10 mΩ MAXIMUM (change from initial) & Visual: No Damage		

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6.2 **MECHANICAL PERFORMANCE CONTINUED**

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
	Vibration (Random) & Shock	Mate connectors and vibrate per EIA 364-28, test condition VII. (Acceleration 3.1 g)	10mΩ MAXIMUM (change from initial for 20 & 22 AWG) & Discontinuity < 1 microsecond 20mΩ MAXIMUM (change from initial for
6.2.12	(Mechanical) EIA-364-1000	Mate connectors and shock at 50 g's with ½ sine wave (11 milliseconds) shocks in the ±x ±y ±z axes	24, 26 & 28 AWG) & Discontinuity < 1 microsecond
	Test Group 3 (see section 7.0)	shocks in the ±x, ±y, ±z axes (18 shocks total). EIA-364-27C, Test Condition A	10mΩ MAXIMUM (change from Initial for 24, 26 & 28 AWG) & Discontinuity < 1 microsecond [With Backshell]

MECH	MECHANICAL PERFORMANCE - BackShell									
ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT							
6.2.13	Backshell Latch retention (Initial)	The force to separate the backshell halves at 25.4 mm/min	150 N (33.72 lbf) MINIMUM retention force							
6.2.14	Backshell Latch Insertion	Mate the backshell halves at 25.4 mm/min	20 N (4.49 lbf) MAXIMUM insertion force							
	Backshell Latch Cycling	Engage and disengage the latches 9 times. Record backshell latch	20 N (4.49 lbf) MAXIMUM insertion force							
6.2.15		insertion & retention forces for 10 th cycle.	100 N (22.48 lbf) MINIMUM retention force							
6.2.16	Wire Pullout Force (Up/Side Direction)	Apply a force on the wire at 25.4 mm/min	70 N (15.74 lbf) MAXIMUM Pullout force							



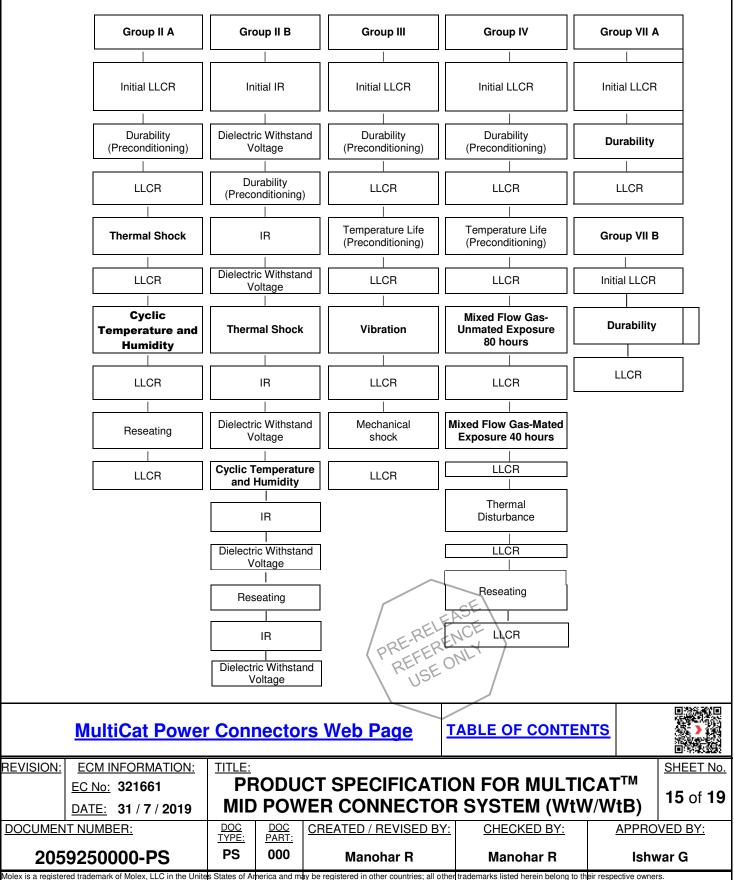
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6.3 **ENVIRONMENTAL PERFORMANCE**

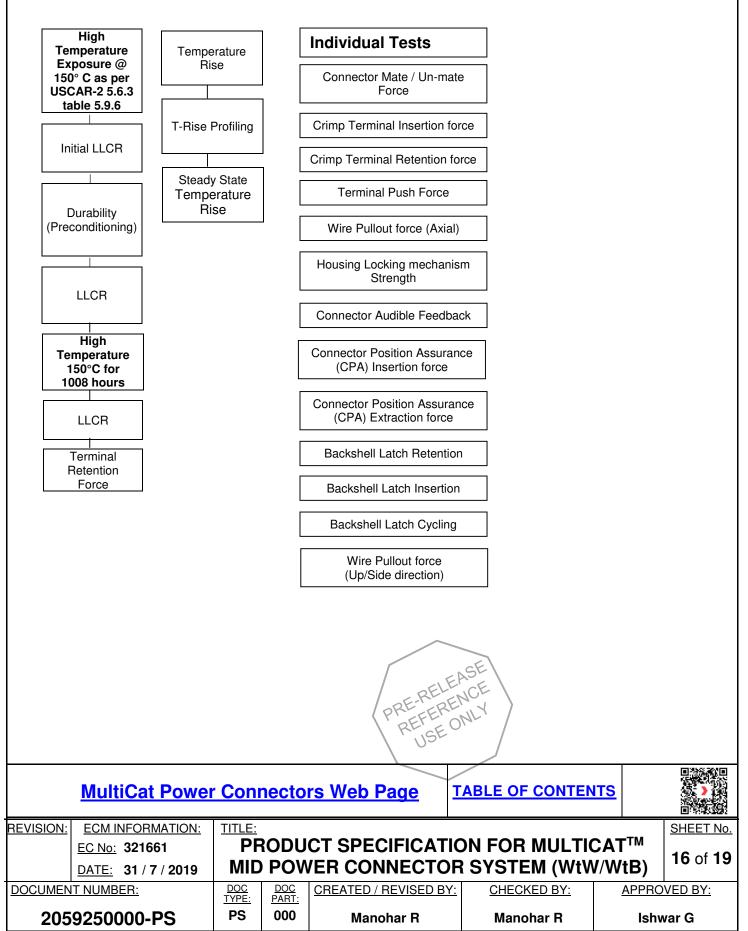
	ITEM	DESCRIPT	ION		TEST CONDITION	REQU	REMENT			
	6.3.1	Thermal SI	nock		Mate connectors; expose 5 cycles of: <u>perature °C</u> <u>Duration (Min</u> -40 + 0/-3 30 +25 ± 10 5 MAX +150 + 3/-0 30 +25 ± 10 5 MAX EIA-364-32F, Method A, Test condition IV	nutes) 10mΩ ľ IMUM (change IMUM Visual: ľ	MAXIMUM from initial) & No Damage			
		Cyclic Tempe & Humid EIA-364-1 Test Group 2 (See section	ity 000 A & 2B	tem rela 50	Mate connectors: cycle per EIA-364-31: 24 cycles at perature 25 \pm 3 °C at 80 : tive humidity and 65 \pm 3 ° \pm 5% relative humidity; d e of 1.0 hour; ramp time of hours.	t 10mΩ l ± 5% (change well Visuals J	MAXIMUM from initial) & No Damage			
	6.3.2	Corrosiv Atmosphe Mixed Flow (MFG) EIA-364-1 Test Grou (See sectior	ere: Gas 000 p 4	Te	Mate connectors: est per EIA-364-65, Class	(change 2A	MAXIMUM from initial) & No Damage			
		Note: Highly	recomm	ended	to use 1.3Mirometer Au F	Plating thickness for the	MFG application			
	6.3.3	High Temperature Exposure As per USCAR- 5.6.3 Refer to table 5.9.6 (See section 7.0)			e connectors per durabilit se to 1008 hours at 150 - USCAR-2, Class T4	± 2 °C (change	MAXIMUM from initial) Io Damage			
	6.3.4	Solderabi	lity		Per JEDEC		coverage: /INIMUM			
	6.3.5	Solder Resistance- I Solderin	Reflow	Ref	er to Section 8.0 for solde profile	No Damag	sual: Je to insulator aterial			
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7.0 TEST SEQUENCE GROUPS

Reliability Test Sequences per EIA-364-1000







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8.0 SOLDER INFORMATION

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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.

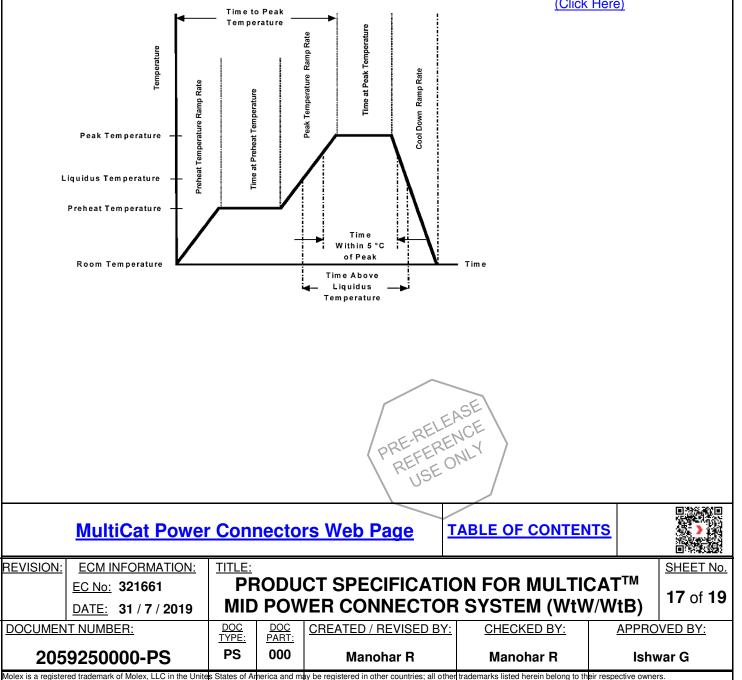
8.1 SOLDER PROCESS TEMPERATURES *

Reflow Solder Temperature: 260°C Maximum

Molex Solderability Specification SMES-152 (Click Here)

8.2 REFLOW SOLDERING PROFILE *

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



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.

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10.0 POLARIZATION AND KEYING OPTIONS

10.1 Receptacle Housing with CPA, w/o CPA(Series: 205926)

