MOIOX PRODUCT SPECIFICATION

MULTICAT[™] IN-LINE POWER

Wire-To-Wire AND Wire-To-Board CONNECTOR SYSTEM

Female Crir	mp Contact		Male Crimp Cont	act	
	1		at ate		
Series:	<u>201846</u>		Series: <u>201845</u>		
Receptacl	e Housing		Plug Housing		
	R				
Series:	201841		Series: <u>201840</u>		
MultiCat Powe		rs Web Page	TABLE OF CONTEN		
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DOCUMENT NUMBER: 2018400000-PS	DOC TYPE: DOC PART: PS 000	CREATED / REVISED BY	CHECKED BY: KARTHG3	APPROVED BY: MRAMAKRISHNA	
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MOLEX PRODUCT SPECIFICATION

Receptacle Housing With CPA	Plug / Receptacle Backshell
Series: <u>201841</u>	Series: <u>201844</u>

Vertical Header	Right Angle Header
Series: <u>201842</u>	Series: <u>201843</u>

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	8400000-PS	PS	000	KARTHG3	KARTHG3		KRISHNA
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MOIOX PRODUCT SPECIFICATION

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PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers the 7.40 mm (.291 inch) centerline (pitch) connector series terminated with 8 to 18 AWG wire using crimp technology with gold plating.

This Product Specification also covers the 7.40 mm (.291 inch) centerline (pitch) printed circuit board (PCB) connector series with gold plating.

2.0 **PRODUCT DESCRIPTION**

2.1 DESCRIPTION, SERIES NUMBER, AND LINKS

		DES	CRIPTION		SERIES	NUMBER]
	MULTICAT	PLUG HO	DUSING 1X3 KEY A BL	ACK			
	MULTICAT	PLUG H	OUSING 1X3 KEY B GF	RAY	20	10.40	
	MULTICAT	PLUG HO	DUSING 1X4 KEY A BL	ACK	20	<u>1840</u>	
	MULTICAT	PLUG H	OUSING 1X4 KEY B GF	RAY			
	MULTICAT REC	CEPTACL	E HOUSING 1X3 KEY A	BLACK			
	MULTICAT REG	CEPTACL	E HOUSING 1X3 KEY I	3 GRAY			
	MULTICAT REC	CEPTACL	E HOUSING 1X4 KEY A	BLACK			
	MULTICAT REC	CEPTACL	E HOUSING 1X4 KEY I	B GRAY	20,	1 <u>841</u>	
MULT	ICAT RECEPT/	ACLE HO	USING WITH CPA 1X3	KEY A BLACK	20	1041	
MUL	MULTICAT RECEPTACLE HOUSING WITH CPA 1X3 KEY B GRAY						
MULTICAT RECEPTACLE HOUSING WITH CPA 1X4 KEY A BLACK							
MUL	ICAT RECEPT	ACLE HO	USING WITH CPA 1X4	KEY B GRAY			
	MULTICAT V	ERTICAL	HEADER 1X3 KEY A B	LACK			
	MULTICAT V	/ERTICAL	HEADER 1X3 KEY B C	GRAY	20 [,]	1842	
	MULTICAT V	ERTICAL	HEADER 1X4 KEY A B	LACK	201042		
			HEADER 1X4 KEY B C				
			E HEADER 1X3 KEY A		<u>201843</u>		
			LE HEADER 1X3 KEY E				
			E HEADER 1X4 KEY A				
			LE HEADER 1X4 KEY E	-			
			ELL 1X3 BLACK 8-10 A		- 201844		
			ELL 1X3 GRAY 8-10 A				
			HELL 1X3 BLACK 12-18				
			HELL 1X3 GRAY 12-18				
			HELL 1X4 BLACK 8-10 A				
			IELL 1X4 GRAY 8-10 A				
			HELL 1X4 BLACK 12-18				
	WIULTICAT	DACKSF	IELL 1X4 GRAY 12-18 /	AWG			
MultiCat Power Connectors Web Page TABLE OF CONTENTS							
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DESCRIPTION	SERIES NUMBER
MULTICAT MALE CRIMP CONTACT 8-10 AWG	
MULTICAT MALE CRIMP CONTACT 12-14 AWG	<u>201845</u>
MULTICAT MALE CRIMP CONTACT 16-18 AWG	
MULTICAT FEMALE CRIMP CONTACT 8-10 AWG	
MULTICAT FEMALE CRIMP CONTACT 12-14 AWG	<u>201846</u>
MULTICAT FEMALE CRIMP CONTACT 16-18 AWG	

2.2 DIMENSIONS, MATERIALS, PLATINGS

Refer Sales Drawings 2018400000-SD, 2018410000-SD, 2018420000-SD, 2018430000-SD, 2018440000-SD, 2018450010PSD, 2018450020PSD, 2018460010PSD, 2018460020PSD, 2018460040PSD.

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 / cUL File Number: E29179

3.0 APPLICABLE DOCUMENTS AND SPECIFICATION

3.1 MOLEX DOCUMENTS

MultiCat In-Line Power Connector System Test summary 2018400000-TS-000 MultiCat In-Line Power Connector System Application summary 2018400000-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

	MultiCat Power	<mark>r Con</mark> i	necto	rs Web Page	TABLE OF CONTENT	r <u>s</u>	
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PRODUCT SPECIFICATION

4.0 ELECTRICAL PERFORMANCE RATINGS

4.1 VOLTAGE

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1200 Volts AC/DC

4.2 APPLICABLE WIRES

Wire Gage	Insulation Diameter
8	5.84 mm
10	4.03 mm
12	3.40 mm
14	2.92 mm
16	2.59 mm
18	2.36 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 **UL1199** 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.

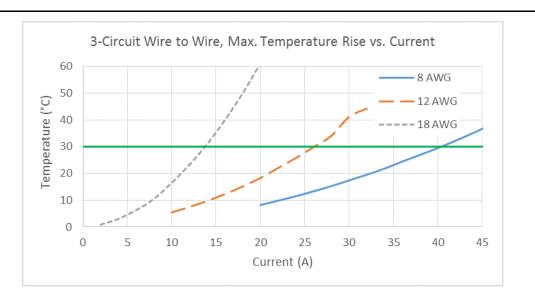
Note: PCB trace design can greatly affect temperature rise results in Wire-to-Board applications.

	3 CI	RCUIT	4 CIRCUIT		
	Wire-to-Wire	Wire-to-Board	Wire-to-Wire	Wire-to-Board	
8 AWG	40 A	34 A	38 A	34 A	
10 AWG	32 A#	28 A#	31 A#	28 A#	
12 AWG	26 A	24 A	26 A	24 A	
14 AWG	20 A#	20 A#	21 A#	20 A#	
16 AWG	16 A#	16 A#	17 A#	16 A#	
18 AWG	14 A	14 A	14 A	14 A	

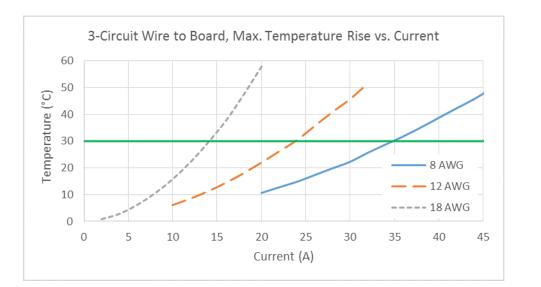
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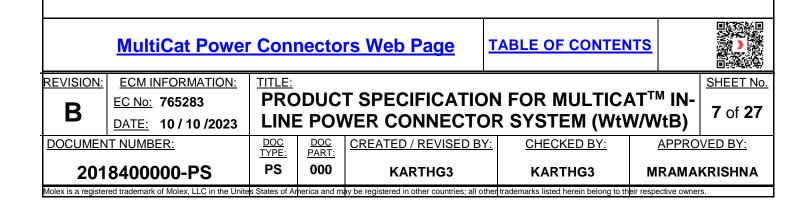
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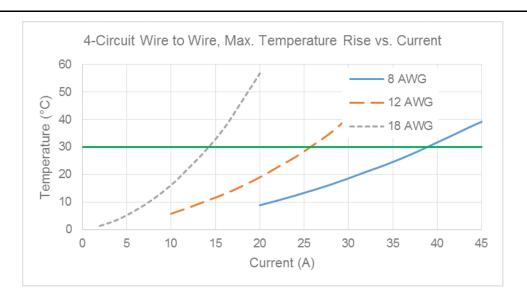
PRODUCT SPECIFICATION

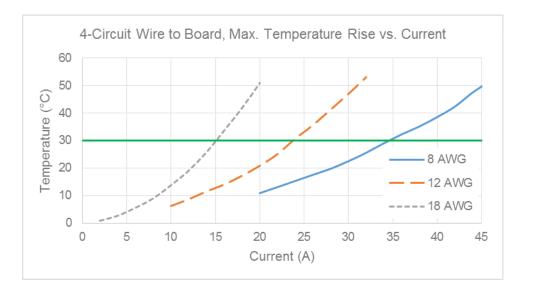


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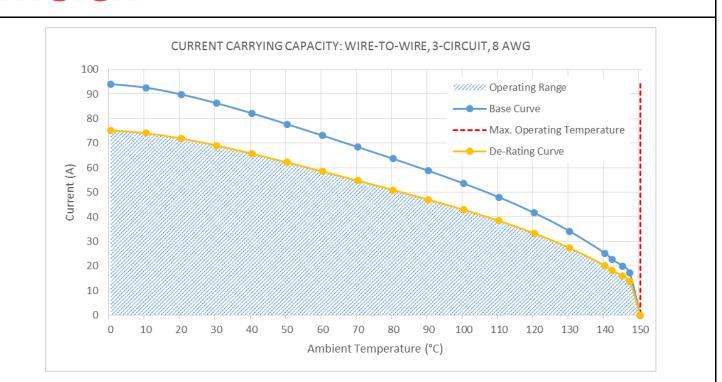


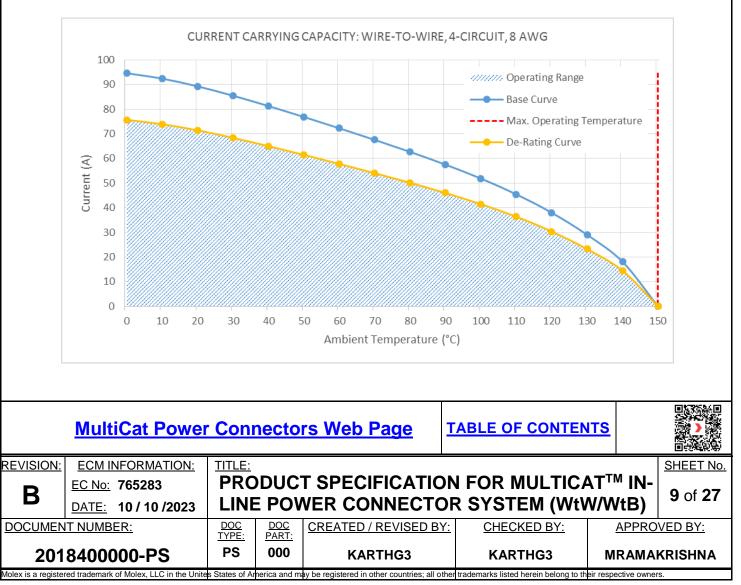


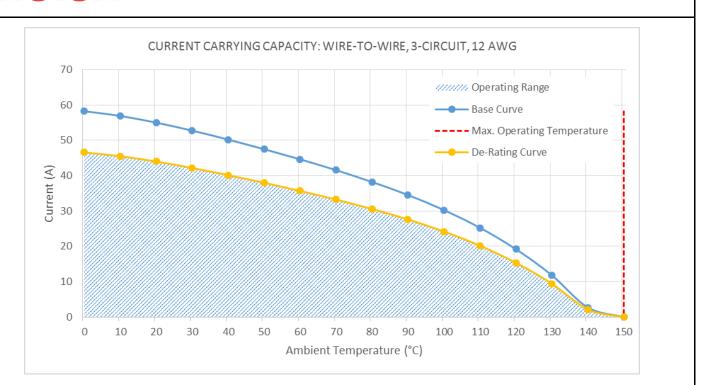


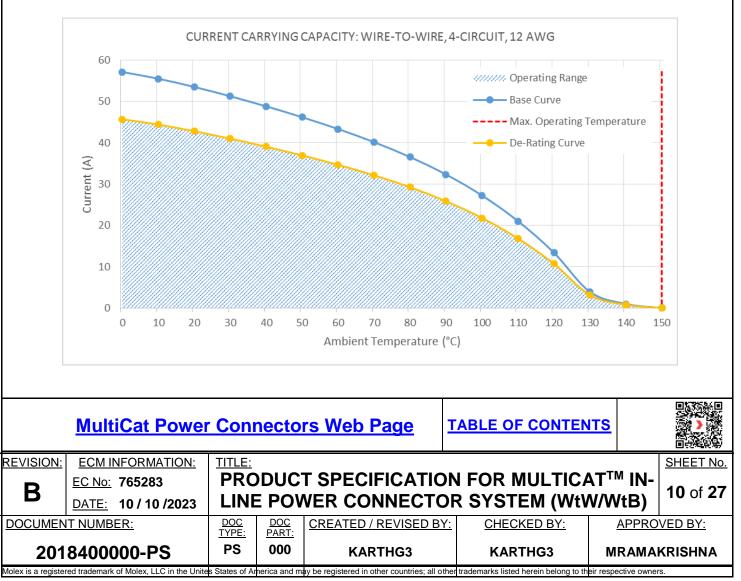


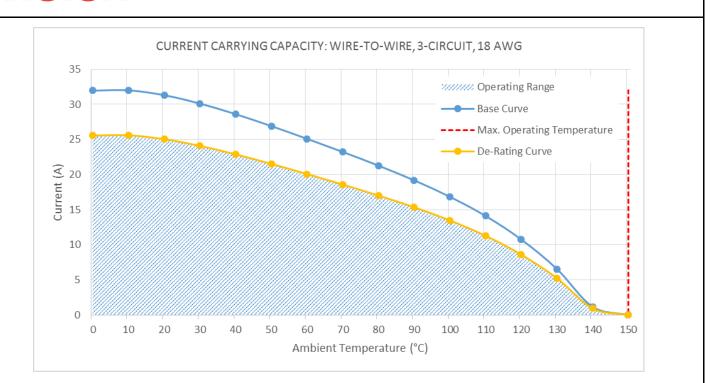
MultiCat Power Connectors Web Page **TABLE OF CONTENTS REVISION:** ECM INFORMATION: TITLE: SHEET No. **PRODUCT SPECIFICATION FOR MULTICAT[™] IN-**EC No: 765283 Β 8 of 27 LINE POWER CONNECTOR SYSTEM (WtW/WtB) DATE: 10/10/2023 DOC TYPE: DOC PART: DOCUMENT NUMBER: CREATED / REVISED BY: CHECKED BY: APPROVED BY: PS 000 2018400000-PS **KARTHG3 KARTHG3 MRAMAKRISHNA** lolex is a registered trademark of Molex, LLC in the Unit States of Arherica and may be registered in other countries; all other trademarks listed herein belong to their respective owners

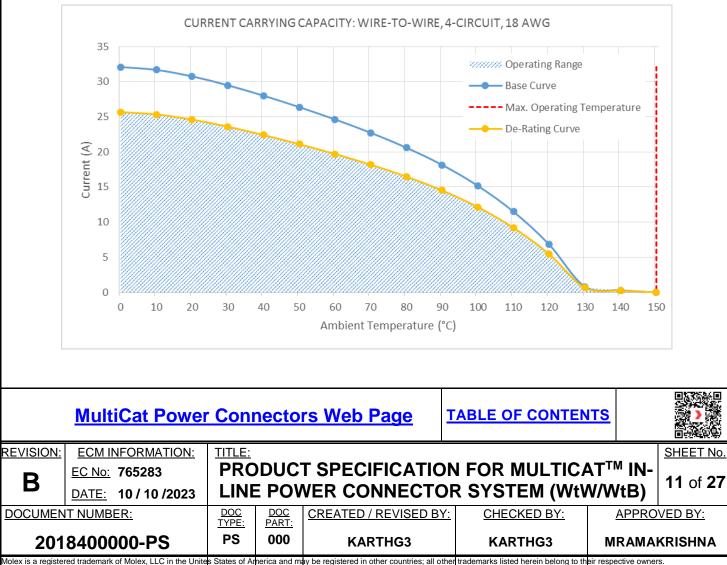




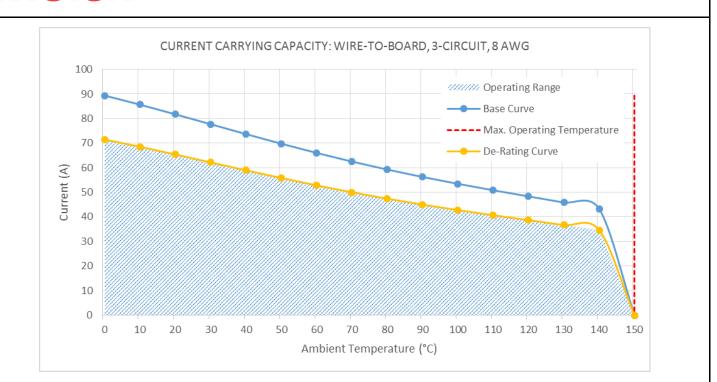


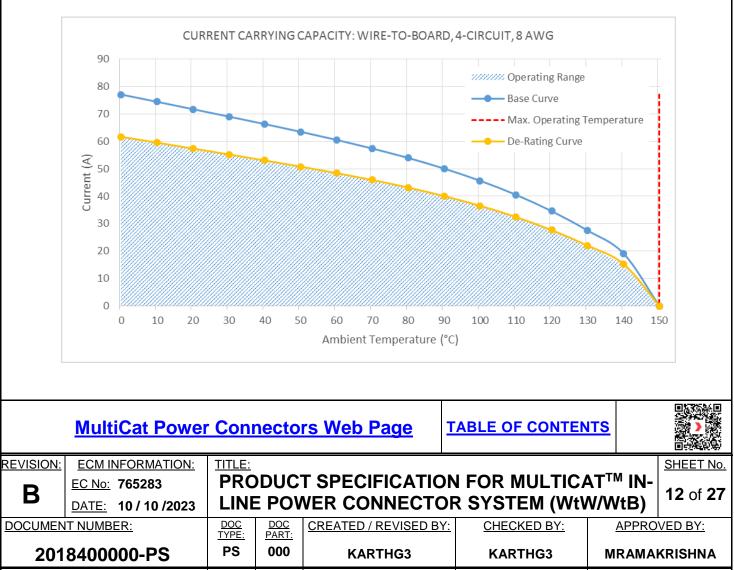




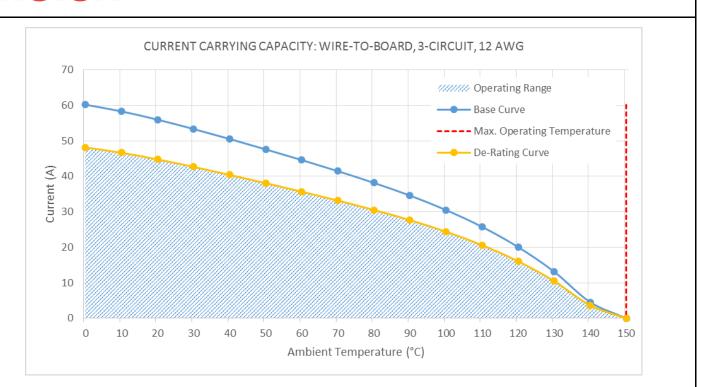


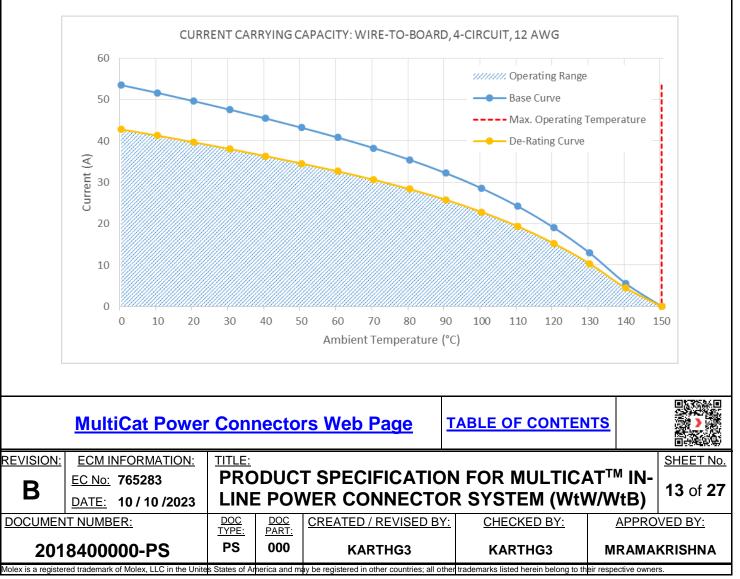
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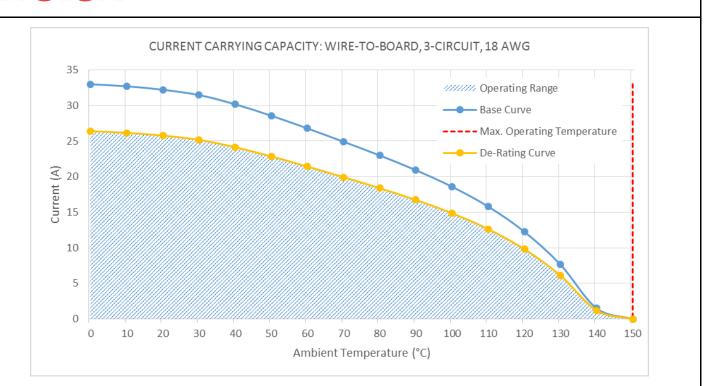


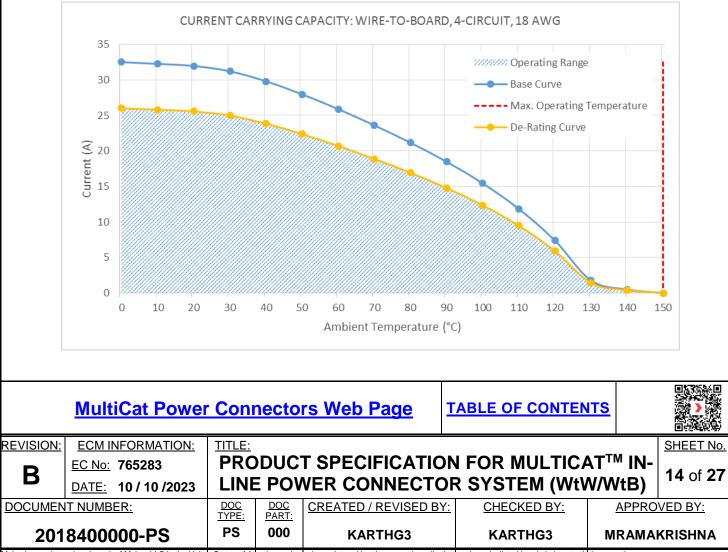


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4.4 **TEMPERATURE**

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 6.2.7 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.
- Laboratory condition, sample selection and test sequences are in accordance with SAE/USCAR-2 REVISION 7.

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MOIOX PRODUCT SPECIFICATION

6.0 PERFORMANCE

6.1 ELECTRICAL PERFORMANCE IN ACCORDANCE WITH EIA-364-1000

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6.2 MECHANICAL PERFORMANCE IN ACCORDANCE WITH EIA-364-1000

	ITEM	DESCRIPT	ION		TEST CO	ONDITION		R	EQUIREI	MENT	
	6.2.1	Connector M and Unmate For [Initial cycl <i>Latch disab</i> (See section for addition informatio	rces le] bled n 7.0 nal	(1	male to fem 6 mm (1 ± 1	mate connec ale) at a rate 4 inch) per m 3E, Method A	of ninute.	MAXIN	20 N (4.49 /UM mate circuir and 5 N (1.12 JM unma circuir	e force p t lbf) te force	
	6.2.2	Termina Insertion Fc (into Housi	orce	Apply	terminal 25 ± 6 mm	sertion force at a rate of (1 ± ¼ inch) 64-05B			10 N (8.99 ∕IUM inse		се
	6.2.3	Termina Retention Fo (in Housin	orce		the housin 6 mm (1 ±	e on the term g at a rate of ¼ inch) per n 9C, Method C	ninute.	175 N (39 MINIMUM rete after High Te exposure (see 150 N (33 MINIMUM rete 200 N (44		ntion force nperature item 6.3.4) 72 lbf)	
	6.2.4	Housing Loc Mechanis Strength (after 500 Cy	m N	per	minute (0.5 eparate the	ce at a rate o inch per minu housing halv 364-98	ute) to		00 N (44.9 IUM reter		ce
	6.2.5	Wire Pullout For (Axial)			wire at a rate (1 ±	oullout force of e of 25 ± 6 m ¼ inch). 64-08B		AWG 8 10 12 14 16	8 450 N 10 355 N 12 275 N 14 200 N		lbf) bf) bf) bf)
	6.2.6	Connector Au Feedbac		audil	ble feedbacl ma	ock must pro during conr ting. S, Paragraph	ector	18		<u>N (30.3 II</u> I (20.2 Ib mbient	
	6.2.7	Durability EIA-364-10 Test Group (See section)00 p 7	Mate 500 cy	e and unmat ycles at a ra nour. Actuate mechanism	e connectors te of 300 cyc housing late for each cycl 364-09	up to les per	5 mΩ MAXIMUM (change from initial) & Dielectric Withstanding Voltag No breakdown; current leakage < 5 mA & Visual: No Damage		Ū.	
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B	<u>DATE:</u> 1	0 / 10 /2023	LINE	E POV	VER CO	NNECTC	R SYS	STEM (V	NtW/N	/tB)	17 of 2

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6.2 MECHANICAL PERFORMANCE IN ACCORDANCE WITH EIA-364-1000 CONTINUED

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
	Vibration (Random) Shock	Mate connectors and vibrate per EIA 364-28, test condition VII. (Acceleration 3.1 g)	5 mΩ MAXIMUM (change from initial)
6.2.8	(Mechanical)	Mate connectors and shock at 50 g's with	Discontinuity
	EIA-364-1000 Test Group 3 (See section 8.0)	¹ / ₂ sine wave (11 milliseconds) shocks in the ±X, ±Y, ±Z axes (18 shocks total). EIA-364-27C, Test Condition A	< 1 microsecond
6.2.9	Connector Position Assurance (CPA) Insertion Force	The force to insert the CPA from the preload (as shipped) position to the final position at a rate of $50 \pm 6 \text{ mm} (2 \pm \frac{1}{4} \text{inch})$ per minute.	25 N (5.62 lbf) MAXIMUM insertion force
6.2.10	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 $\pm 1/4$ inch) per minute.	40 N (8.99 lbf) MAXIMUM extraction force
6.2.11	Backshell Latch retention	The force to separate the backshell halves at 25.4 mm/min	200 N (44.96 lbf) MINIMUM retention force
6.2.12	Backshell Latch Insertion	Mate the backshell halves at 25.4 mm/min	20 N (4.49 lbf) MAXIMUM insertion force

6.3 MECHANICAL PERFORMANCE IN ACCORDANCE WITH SAE/USCAR-2 REVISION 7

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT				
6.3.1	Terminal Insertion Force (Into Housing)	Insert the terminal straight into the connector at a uniform rate not to exceed 50 mm/min. SAE/USCAR-2 REVISION 7	40 N (8.99 lbf) MAXIMUM Insertion force				
6.3.2	Terminal Retention Force (From Housing)	Pull the terminal straight back from the connector Increase the pullout force at a uniform rate not to exceed 50 mm/min, until pullout occurs. SAE/USCAR-2 REVISION 7	50 N (11.24 lbf) MINIMUM retention force				

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MOLEX PRODUCT SPECIFICATION

6.3 MECHANICAL PERFORMANCE IN ACCORDANCE WITH SAE/USCAR-2 REVISION 7 CONTINUED

6.3.3	Header Pin Retention (Clockwise & Anti-Clockwise)	Moisture condition samples by exposing "dry as molded parts" to 95 to 98% relative humidity at 40°C for 6 hours, then immediately complete the retention test. Measurements shall be taken in both directions, if possible, i.e., force to push the pin longitudinally through the connector, and to pull it out as if removing a female plug from the header. SAE/USCAR-2 REVISION 7	The minimum force required to displace the pin 0.2 mm longitudinally in either direction shall meet the values specified. 50 N (11.24 lbf) MINIMUM retention force
6.3.4	Polarization Effectiveness, 3 CKT & 4 CKT	Engage the connector halves at a rate not to exceed 50 mm/min until a force of 3X the maximum value of a properly mated connector is applied. SAE/USCAR-2 REVISION 7	100 N (22.48 lbf) MINIMUM retention force

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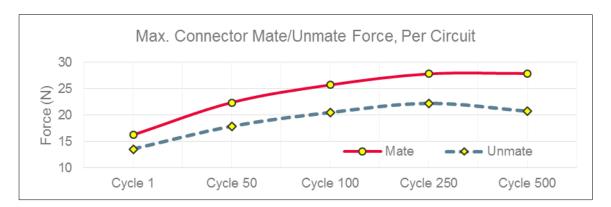
MOIOX PRODUCT SPECIFICATION

	ITEM	DESCRIPT	ION		TEST C	ONDITIO	N	REQUIR	EMENT
	6.4.1	Shock (Therma EIA-364-1 Test Group 2 (See sectior	000 A & 2B	<u>Tem</u> - + +	e connectors; perature °C -40 +0/-3 +25 ±10 -150 +3/-0 -25 ±10 EIA-364-32D	<u>Duratio</u> 30 5 M 30 5 M	on (<u>Minutes)</u>) MAXIMUM) MAXIMUM	5 mΩ MA (change fr 8 Visual: No	rom initial)
	6.4.2	Cyclic Temper Humidit EIA-364-1 Test Group 2 (See sectior	y 200 A & 2B	24 0 80 ± at 50	e connectors: cycles at tem 5% relative h ± 5% relative .0 hour; ramp	oerature 2 umidity an humidity;	$5 \pm 3 ^{\circ}\text{C}$ at ad $65 \pm 3 ^{\circ}\text{C}$ dwell time of	5 mΩ MA (change fr 8 Dielectric W Voltage: No at 500 8 Insulation F 1000 Megohn 8 Visual: No	om initial) k /ithstanding Breakdown) VAC k Resistance: ns MINIMUM
	6.4.3	Corrosiv Atmosphe Mixed Flow (MFG) EIA-364-1 Test Grou (See sectior	ere: Gas 000 p 4		Mate c Test per EIA-	onnectors 364-65, C		5 mΩ MA (change fr 8 Visual: No	rom initial)
	6.4.4	High Tempe Exposur (See sectior	е		ate connector pose to 1008 USCAR		50 ± 2 °C	5 mΩ MA (change fr Visual: No	rom initial)
	6.4.5	Solderabi	lity		Per S	MES-152		Solder co 95% Mil (per SMi	NIMUM
	6.4.6	Solder Resistan	ce	Sc	connector te older Duration older Tempera	10 ± 0.5	seconds;	Visu No Damage mate	to insulator
	Multi	Cat Power	Conr	1				<u>CONTENTS</u>	
SION:	ECM IN	FORMATION:	TITLE:				<u> </u>		
3	EC No:							/ULTICAT [⊤] EM (WtW/W	20 of
	DATE:	10 / 10 /2023							,
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MOIOX PRODUCT SPECIFICATION

7.0 SUPPLEMENTARY INFORMATION

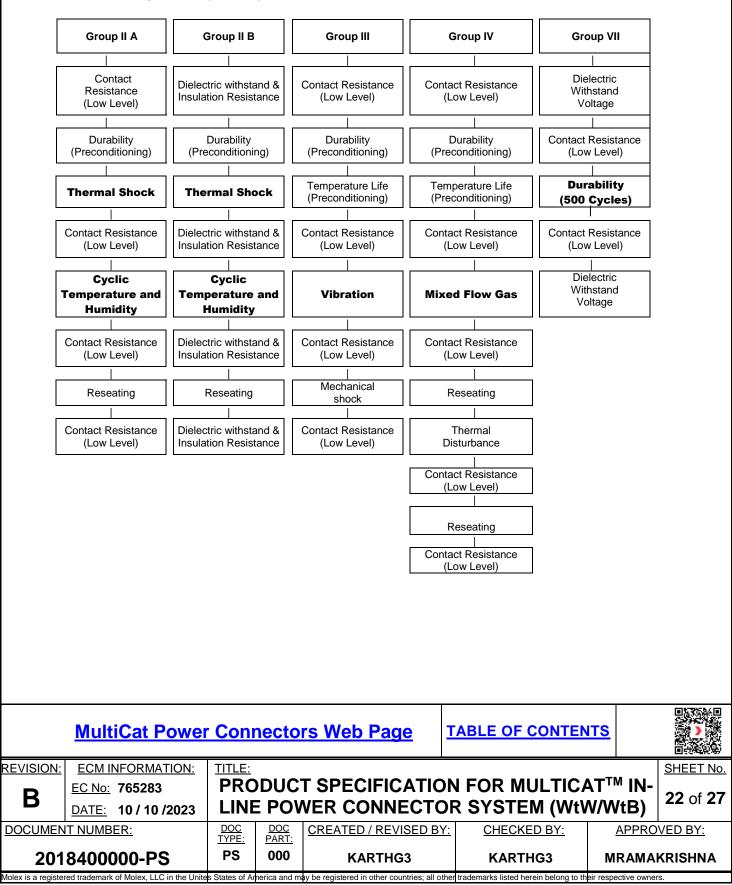
Connector mate/unmate [Item 6.2.1]



	MultiCat Power	TABLE OF CONTEN	ITS							
REVISION:	REVISION: ECM INFORMATION: TITLE:									
D	EC No: 765283	PRC	DUC.	T SPECIFICATIO	N FOR MULTICA	AT™ IN-	24 -4 27			
B	DATE: 10/10/2023	LINE	E POV	VER CONNECTO	OR SYSTEM (WtV	V/WtB)	21 of 27			
DOCUMEN	IT NUMBER:	DOC TYPE:	DOC PART:	CREATED / REVISED BY	<u>CHECKED BY:</u>	<u>APPRO</u>	VED BY:			
201	2018400000-PS PS 000 KARTHG3 KARTHG3 MRAMAKRISHNA									
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8.0 TEST SEQUENCE GROUPS

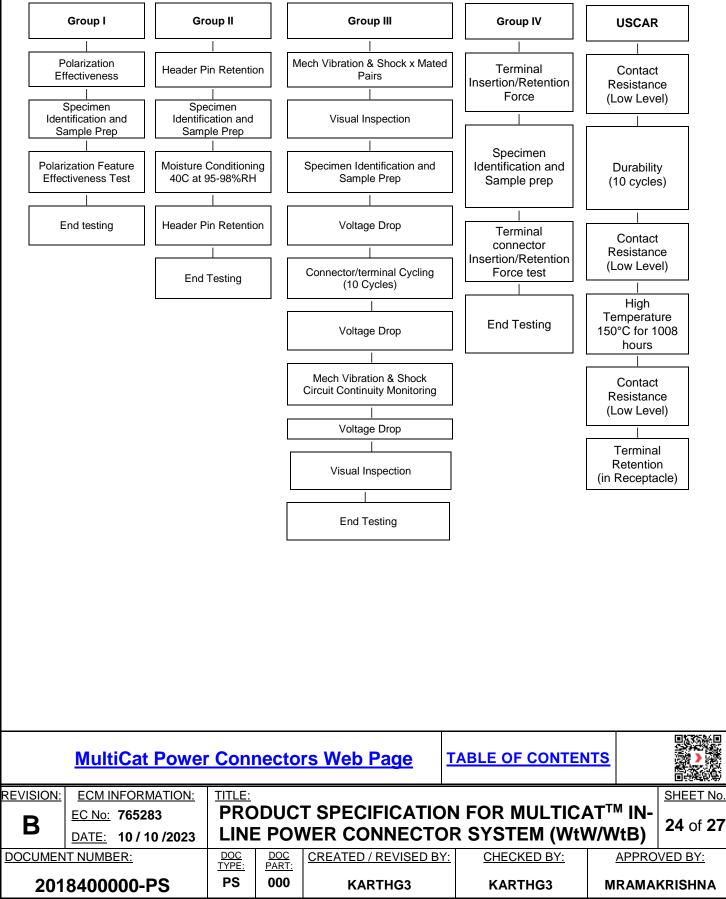
Reliability Test Sequences per EIA-364-1000



Т	emperature	dividua	l Test	S					
		onnector Ma orce	ate / Un-	mate					
Т-І	Rise Profiling Cr	imp Termir	nal Insert	tion force					
		imp Termir	al Reter	ntion force					
		ousing Lock rength	king Mec	hanism					
	W	ire Pullout f	force (Ax	kial)					
	Co	onnector Au	udible Fe	edback					
		onnector Po PA) Inserti							
		onnector Po PA) Extrac							
	Ва	ckshell Lat	ch Rete	ntion					
	Ba	ckshell Lat	tch Inser	tion					
	MultiCat Powe	er Conr	<u>necto</u>	rs Web	Page	TABLE	OF CONTEN		
REVISION:	ECM INFORMATION:	TITLE:							SHEET No.
В	EC No: 765283 DATE: 10 / 10 /2023						R MULTICA STEM (WtV		23 of 27
DOCUMEN	<u>DATE.</u> 107 1072023 <u>IT NUMBER:</u>	DOC TYPE:	DOC PART:		/ REVISED B		ECKED BY:	-	VED BY:
	8400000-PS	<u>TYPE:</u> PS	<u>part:</u> 000		RTHG3		ARTHG3		KRISHNA

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PRODUCT SPECIFICATION

9.0 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.

9.1 SOLDER PROCESS TEMPERATURES *

Molex Solderability Specification SMES-152 (Click Here)

MN7584M

Wave Solder Temperature: 245°C Maximum

10.0 PACKAGING

molex

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.

MultiCat Power Connectors Web Page					TABLE OF CONTEN	TS	•	
REVISION:	ECM INFORMATION:	<u>TITLE:</u>					SHEET No.	
В	EC No:765283PRODUCT SPECIFICATION FOR MULTICAT™ INDATE:10 / 10 /2023LINE POWER CONNECTOR SYSTEM (WtW/WtB)						25 of 27	
	DATE. 107 1072023		01			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
DOCUMENT NUMBER:		DOC TYPE:	DOC PART:	CREATED / REVISED BY	<u>CHECKED BY:</u>	APPROVED BY:		
2018400000-PS		PS	000	KARTHG3	KARTHG3		MRAMAKRISHNA	

molex PRODUCT SPECIFICATION POLARIZATION AND KEYING OPTIONS 11.0 11.1 Receptacle Housing with CPA & w/o CPA (Series: 201841) KEY CKT 1 11.2 Plug Housing (Series: 201840) KEY – CKT 1 11.3 Vertical Header (Series: 201842) KEY-CKT 1 MultiCat Power Connectors Web Page **TABLE OF CONTENTS REVISION:** ECM INFORMATION: TITLE: SHEET No. **PRODUCT SPECIFICATION FOR MULTICAT[™] IN-**EC No: 765283 В 26 of 27 LINE POWER CONNECTOR SYSTEM (WtW/WtB) DATE: 10/10/2023 DOC TYPE DOC PART: DOCUMENT NUMBER: CREATED / REVISED BY: CHECKED BY: APPROVED BY: PS 000

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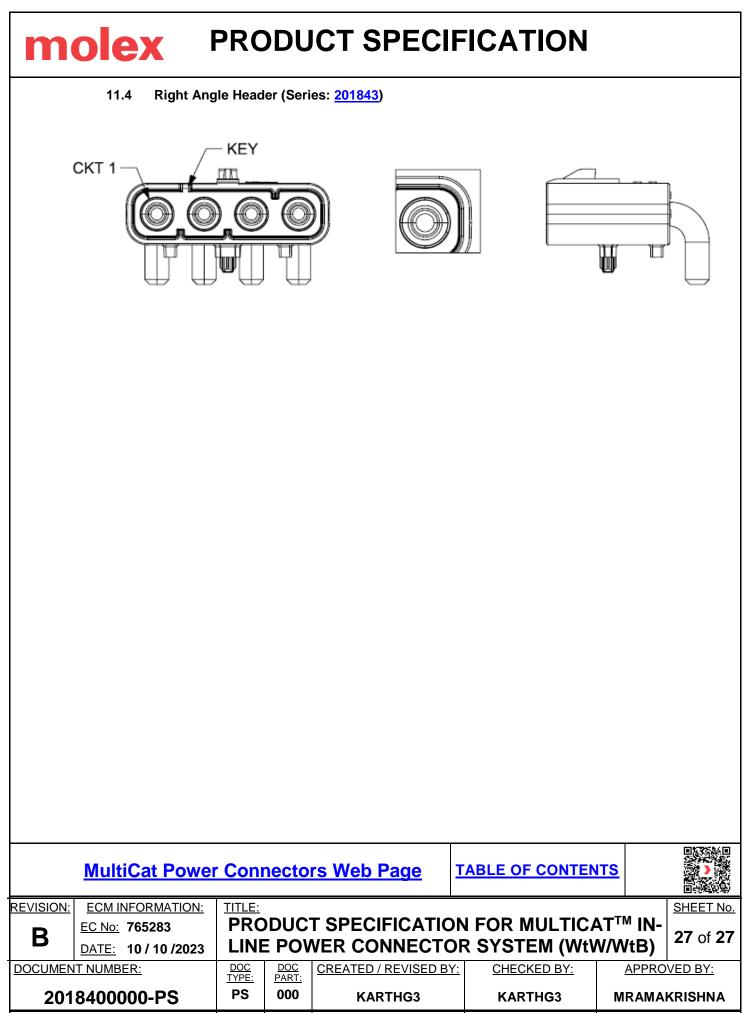
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