

## CP 6.5MM PITCH

# Wire to Wire CONNECTOR SYSTEM

Receptacle Crimp Terminal (16 AWG to 20 AWG)	Receptacle Crimp Terminal (22 AWG to 24 AWG)
Series: <u>50597</u>	Series: <u>50598</u>

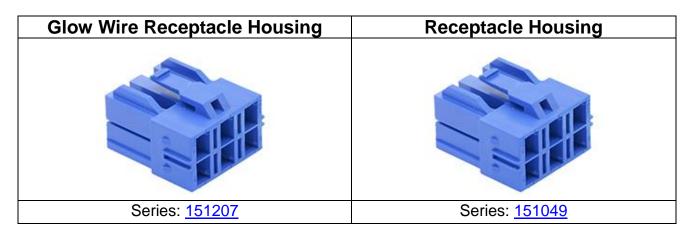


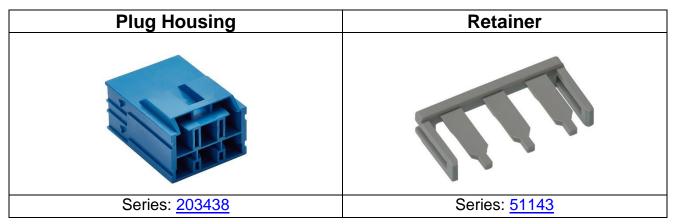
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### 1.0 SCOPE

This Product Specification covers the performance requirements CP 6.5mm CENTER SPACING wire to wire series.

## 2.0 PRODUCT DESCRIPTION

### 2.1 DESCRIPTION, SERIES NUMBER, AND LINKS

DESCRIPTION	SERIES NUMBER	PART NUMBER
6.5 mm Pitch Glow Wire Receptacle Housing	<u>151207</u>	151207****
6.5 mm Pitch Receptacle Housing	<u>151049</u>	151049-****
6.5 mm Pitch Plug Housing	<u>203438</u>	203438****
Receptacle Crimp Terminal	<u>50597</u>	505978*10
Receptable Offitip Terminal	<u>50598</u>	505988*10
Plug Crimp Torminal	<u>205033</u>	2050338000
Plug Crimp Terminal	<u>205032</u>	2050328000
Retainer	<u>51143</u>	51143**05

### 2.2 DIMENSIONS, MATERIALS, PLATINGS

Refer Sales Drawings 2034380000-SD, 1512070001-SD, SD-151049-0001, 505978010-SD, 505988010-SD, 2050328000-SD, 2050338000-SD, SD-51143-XX05 for information on dimensions, materials, plating and markings.

### 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 File Number: E29179 CSA File Number: 70056261 VDE File Number: TBE

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### 3.0 APPLICABLE DOCUMENTS AND SPECIFICATION

### 3.1 MOLEX DOCUMENTS

CP 6.5 Connector System Test summary 2034380001-TS-000
CP 6.5 Connector System Application summary 2034380001-AS-000

Molex Quality Crimping Handbook Order No. 63800-0029

Molex Moisture Technical Advisory AS-45499-001

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

JIS C5402, JIS C60068 & MIL-STD-1344. UL-60950-1 CSA-STD. C22.2 NO. 182.3-M1987 IEC-60695-2-11 IEC-60335-1

## 4.0 ELECTRICAL PERFORMANCE RATINGS

### 4.1 VOLTAGE

600 Volts AC (rms) / DC

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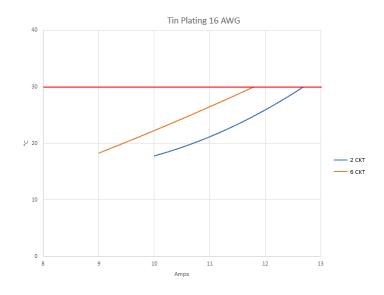


### 4.2 RATINGS AND APPLICABLE WIRES

Item					
Rated Current (MAX.) and Applicable wires	СКТ	2	4	6	
	AWG. #16	12.5 A	11.8 A*	11.0 A	AWG # 16 ~ # 20
	AWG. #18	11.3 A*	10.5 A*	9.7 A*	Ф3.3~Ф2.0 Ins. O.D.
	AWG. #20	10.0 A	9.2 A*	8.3 A	AWG # 22 ~# 24
	AWG. #22	8.6 A*	7.7 A*	6.7 A*	Ф2.35∼Ф1.25 Ins. O.D.
	AWG. #24	7.0 A	6.0 A*	5.0 A	

\*Interpolated

Note: Ratings shown represent *MAXIMUM* current carrying capacity of a fully loaded connector with all circuits powered using UL1015 stranded wire. Ratings are based on a 30°C maximum temperature rise limit over ambient (see section 6.1.5 for specifications). Current is dependent on connector size, ambient temperature and related factors. Actual current rating is application dependent and should be evaluated for each use.



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#### 4.3 **TEMPERATURE**

Operating Temperature Range (includes T-Rise from applied current): - 40°C to + 105°C# #Including terminal temperature rise

#### 4.4 **DURABILITY**

Plating Type	Number of Cycles			
Tin Plated	30			

#### **GLOW WIRE SERIES** 4.5

151207 and 203438

#### 5.0 **QUALIFICATION**

Laboratory condition, sample selection and test sequences are in accordance with JIS C5402, JIS C60068 & MIL-STD-1344.

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#### 6.0 **PERFORMANCE**

#### 6.1 **ELECTRICAL PERFORMANCE**

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.1.1	Low Level Contact Resistance (LLCR)	Mate connectors with dry circuit (20 mV Max., 10 mA) on mated connector. (JIS C5402 5.4)	10 mΩ MAX Value excludes bulk resistance of terminal
6.1.2	Insulation Resistance	Mate connectors, apply a voltage of 500 V DC between adjacent terminal or ground (JIS C5402 5.2/MIL-STD-202 Method 302)	1000 ΜΩ ΜΙΝ
6.1.3	Dielectric Withstanding Voltage	Mated connectors apply 1500V AC (rms) for 1 minute between adjacent terminal or ground. (JIS C5402 5.1/MIL-STD-202 Method 301)	No voltage breakdown
6.1.4	Contact Resistance on Crimped Portion	Crimp the applicable wire on to the terminal, measure by dry circuit, 20mV MAX., 10mA.	5 mΩ MAX
6.1.5	Temperature Rise	Mate connectors, carrying rated current load	Temperature Rise 30°C MAX.

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#### 6.2 **MECHANICAL PERFORMANCE**

ITEM	DESCRIPTION	TEST CONDIT	REQUIREMENT	
6.2.1	Insertion and Withdrawal Force	Insert and withdraw connectors of 25±3mm/min		Refer to 7.0
			AWG. #16	127.4 N MIN.
	Orienario a Bull Out	Fix the crimped terminal, apply axial pull out force on	AWG. #18	107.8 N MIN.
6.2.2	Crimping Pull Out Force	the wire at the speed rate of 25±3mm/minute.	AWG. #20	58.8 N MIN.
	(Receptacle and Plug)	(JIS C5402 6.8)	AWG. #22	39.2 N MIN.
			AWG. #24	29.4 N MIN.
6.2.3	Terminal Insertion Force (Receptacle and Plug)	Insert the crimped terminal t speed rate of 25±3 m		39.2 N MAX.
6.2.4	Terminal / Housing Retention Force (Receptacle and Plug)	Apply axial pull out force at t 25±3 mm/minute on the termi the housing.	39.2 N MIN.	
6.2.5	Lock Strength	Mate connectors, apply axial p speed rate of 25±3 mi	49.0 N MIN.	
6.2.6	Retainer Insertion Force	Insert a retainer into the hour rate of 25±3 mm/n		29.4 N MAX.
6.2.7	Durability	Mate and un-mate connectors cycles/minute (a) Mate and un-mate conne (b) Mate and un-mate conne (c) Mate and un-mate conne	ectors to 4 cycles ctors to 23 cycles	Contact resistance 20 mΩ MAX
	Vila na ti a n	Amplitude: 1.5mn Sweep time: 10-55-10 Hz		Contact resistance 20 mΩ MAX
6.2.8	Vibration	Duration: 2 hours in each (MIL STD-202 Meth	Discontinuity < 1 μs Visual: No damage	
6.2.9	Shock	490m/s <sup>2</sup> {50G}, 3 strokes in e (JIS C60068-2-27/MIL-STD-2 DC1mA		Contact resistance 20 mΩ MAX Discontinuity < 1 μs

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#### 6.3 **ENVIRONMENTAL PERFORMANCE**

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6.3.1	Humidity	Mate connectors and expose into 60±2°C and 90-95%Relative Humidity for 96 hours. (expose to room temperature for 1~2hrs after pick up)  (JIS C60068-2-3/MIL-STD-202 Method 103)	Contact resistance 20 mΩ MAX Insulation resistance 1000 MΩ MIN Dielectric Strength No voltage breakdown Visual: No damage
6.3.2	Heat Resistance	Mate connectors and expose into 105±2°C for 96 hours. (expose to room temperature for 1~2hrs after pick up)  (JIS C60068-2-2/MIL-STD-202 Method 108)	Contact resistance 20 mΩ MAX Visual: No damage
6.3.3	Temperature Cycling	Mate connectors and expose into below condition  5 cycle of:  a) -55°C 30 minutes b) +105°C 30 minutes c) 3 minutes transit time  Expose to room temperature for 1~2hrs after pick up. (JIS C0025)	Contact resistance 20 mΩ MAX Visual: No damage
6.3.4	Cold Resistance	Mate connectors and expose into -40±2°C for 96 hours. (expose to room temperature for 1~2hrs after pick up) (JIS C60068-2-1)	Contact resistance 20 mΩ MAX Visual: No damage
6.3.5	Salt Spray	Mate connectors and expose into a salt spray from the 5±1% solution at 35±2 °C for 48±4 hours. Wash with water and dry after pick up.  (JIS C60068-2-11/MIL-STD-202 Method 101)	Contact resistance 20 mΩ MAX Visual: No damage
6.3.6	SO₂ Gas	Mate connectors, and 24 hours expose to 50±5 ppm SO <sub>2</sub> gas at 40±2°C	Contact resistance 20 mΩ MAX Visual: No damage
6.3.7	NH₃ Gas	Mate connectors, and exposure into NH₃ gas evaporating from 28% Ammonia solution for 40mins. (25milli liter in 1 liter)	Contact resistance 20 mΩ MAX Visual: No damage

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#### **INSERTION / WITHDRAWAL FORCE** 7.0

No. of ckt.	Unit	Inser	tion Force (M	Withdrawal Force (MIN.)			
		1st	6th	30th	1st	6th	30th
2		19.6	18.6	18.6	1.2	1.2	1.0
4	N	24.5	22.5	22.5	2.4	2.4	2.0
6		29.4	26.4	26.4	3.6	3.6	3.0

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#### 8.0 **TEST SEQUENCE**

·	Full Qualification Test									
Test Group →	Grp 1	Grp 2	Grp 3	Grp 4	Grp 5	Grp 6	Grp 7	Grp 8	Grp 9	Grp 10
Samples →	5	5	5	5	5	5	5	5	5	5
Test or Examination <b>Ψ</b>										
Examination of connector	1,7	1,4	1,7	1,7	1,9	1,7	1,5	1,5	1,5	1,5
Contact Resistance (LLCR)			2,4,6	2,4,6	2,4,6,8	2,4,6	2,4	2,4	2,4	2,4
Insulation Resistance	2,5									
Dielectric Withstanding Voltage	3,6									
Contact resistance on crimped portion										
Insertion Force										
Withdrawal Force										
Crimping Pull Out Force										
Terminal Insertion Force										
Terminal/Housing Retention Force										
Lock Strength										
Retainer Insertion Force										
Durability		2 <sup>(c)</sup>	3 <sup>(c)</sup>	3 <sup>(c)</sup>	3 <sup>(c)</sup>	3 <sup>(c)</sup>				
Temperature Rise		3								
Vibration					5					
Shock					7					
Heat Resistance			5							
Cold Resistance						5				
Humidity	4									3
Temperature Cycling				5						
Salt Spray							3			
SO <sub>2</sub> Gas								3		
NH₃ Gas									3	

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	DATE: 10/10/2019			WIRE TO WIRE C	ONNECTOR		12 01 10		
С	EC No: <b>620445</b>		PRO	DUCT SPECIFICA		<b>6.5</b>	<b>12</b> of <b>16</b>		
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Test Group →	Screen Test								
	Group 11	Group 12	Group 13	Group 14	Group 15				
Test or Examination <b>Ψ</b>									
Examination of connector	1,4	1,4	1,12	1,4	1,3				
Contact Resistance (LLCR)			3,11						
Insulation Resistance									
Dielectric Withstanding Voltage									
Contact resistance on crimped portion		2							
Insertion Force			2, 6, 9						
Withdrawal Force			4, 7, 10						
Crimping Pull Out Force		3							
Terminal Insertion Force	2								
Terminal/Housing Retention Force	3								
Lock Strength				3					
Retainer Insertion Force					2				
Durability			5 <sup>(a)</sup> , 8 <sup>(b)</sup>	2 <sup>(c)</sup>					
Temperature Rise									
Vibration									
Shock									
Heat Resistance									
Cold Resistance									
Humidity									
Temperature Cycling									
Salt Spray									
SO <sub>2</sub> Gas									
NH₃ Gas									

(a), (b) and (c) denote the number of durability cycle. (Refer to item 6.2.7)

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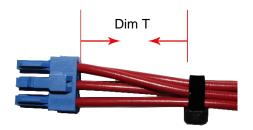


### 9.0 PACKAGING

Parts shall be packaging to protect the parts from damage during standard shipping, storage, and handling. For details kindly refer to Packaging specification 2034380001-PK,1512070001-PK, PK-151049-0001, 505978010-PK and 2050320000-PK.

## 10.0 CABLE TIE AND / OR TWIST TIE LOCATION

C	KT Size		Dim T Min.		
2	4	6	0.50" (12.7mm)		



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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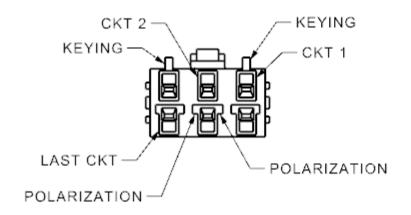


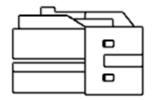
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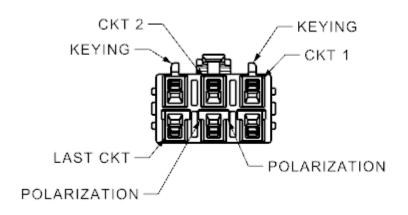
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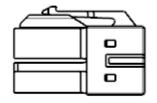
Glow wire Receptacle Housing (Series: 151207) 11.1





Receptacle Housing (Series: 151049) 11.2





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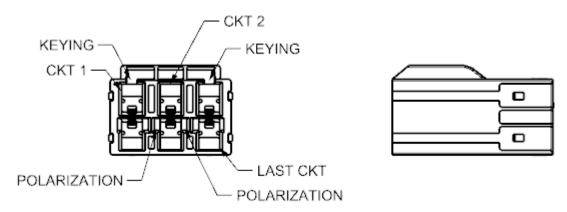
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С	EC No: <b>620445</b>		PRO	DUCT SPECIFICA		6.5	<b>15</b> of <b>16</b>
	DATE: 10/10/2019			WIRE TO WIRE C	ONNECTOR		13 01 10
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## PRODUCT SPECIFICATION

## 11.3 Plug Housing (Series: <u>203438</u>)



NOTE: Each series number comes with different colored polarization, Refer respective part number sales drawing.

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