
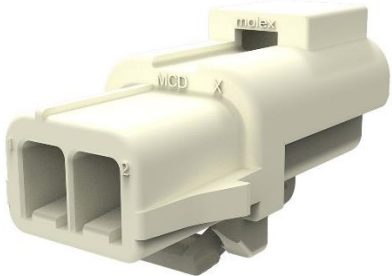


# DITTO™ WIRE TO WIRE INTERCONNECTS

<b>DITTO GENDERLESS CRP TER</b>	<b>DITTO GENDERLESS CRP HSG</b>
	
Series: <a href="#">150200</a>	Series: <a href="#">150201</a>

<b>DITTO POSITIVE LOCK TPA HT V-0</b>

Series: <a href="#">150212</a>

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DOCUMENT NUMBER: <b>1502000000-PS</b>	CREATED / REVISED BY: <b>SMAHAJANSHET</b>	CHECKED BY: <b>NCSR</b>	APPROVED BY: <b>NCSR</b>

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## 1.0 SCOPE

This Product Specification covers the 3.0 mm (.118 inch) centerline (pitch) connector series terminated with 20 to 26 AWG wire using Crimp technology with Gold plating.

## 2.0 PRODUCT DESCRIPTION

### 2.1 PRODUCT NAME AND SERIES NUMBER (S)

Description	Series Number
DITTO GENDERLESS CRP TER Cu-Ni 20-22AWG	<a href="#">1502000011</a>
DITTO GENDERLESS CRP TER Cu-Ni 24-26AWG	<a href="#">1502000012</a>
DITTO GENDERLESS CRP HSG POSLOCK 1X2 HT	<a href="#">1502010012</a>
DITTO GENDERLESS CRP HSG POSLOCK 1X3 HT	<a href="#">1502010013</a>
DITTO GENDERLESS CRP HSG POSLOCK 1X4 HT	<a href="#">1502010014</a>
DITTO GENDERLESS CRP HSG POSLOCK 1X5 HT	<a href="#">1502010015</a>
DITTO GENDERLESS CRP HSG POSLOCK 1X6 HT	<a href="#">1502010016</a>
DITTO GENDERLESS CRP HSG POSLOCK 1X7 HT	<a href="#">1502010017</a>
DITTO GENDERLESS CRP HSG POSLOCK 1X8 HT	<a href="#">1502010018</a>
DITTO POSITIVE LOCK TPA HT 1X2 V-0	<a href="#">1502120012</a>
DITTO POSITIVE LOCK TPA HT 1X3 V-0	<a href="#">1502120013</a>
DITTO POSITIVE LOCK TPA HT 1X4 V-0	<a href="#">1502120014</a>
DITTO POSITIVE LOCK TPA HT 1X5 V-0	<a href="#">1502120015</a>
DITTO POSITIVE LOCK TPA HT 1X6 V-0	<a href="#">1502120016</a>
DITTO POSITIVE LOCK TPA HT 1X7 V-0	<a href="#">1502120017</a>
DITTO POSITIVE LOCK TPA HT 1X8 V-0	<a href="#">1502120018</a>

### 2.2 DIMENSIONS, MATERIALS, PLATING AND MARKINGS

REFER 1502000000-SD, 1502010000-SD AND 1502120010-SD.  
Material: RoHS compliant materials\*.

\*Refer to the "Product Environmental Compliance" section in Molex.com to know the individual PN RoHS compliance status

### 2.3 SAFETY AGENCY APPROVALS

UL FILE NUMBER: E29179  
CSA FILE NUMBE: 80058117  
IEC FILE NUMBER: 47893744146  
CB FILE NUMBER: 47893744146

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### 3.0 APPLICABLE DOCUMENTS AND SPECIFICATION

#### 3.1 MOLEX DOCUMENTS

- [Ditto Interconnects Test summary TS-1502000000-000](#)
- [Ditto Application Specification AS-1502000000-00](#)
- [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

- EIA-364-1000
- UL-60950-1
- IEC-60695-2-11
- IEC-60335-1

### 4.0 ELECTRICAL PERFORMANCE RATINGS

#### 4.1 VOLTAGE

350 Volts AC/DC

#### 4.2 APPLICABLE WIRES

Refer Application Tooling Specification Sheets (see section 3.1) for details.

AWG	Insulation Diameter
20	1.35-1.70 mm (.053-.067 inch)
22	
24	1.05-1.50 mm (.041-.059 inch)
26	

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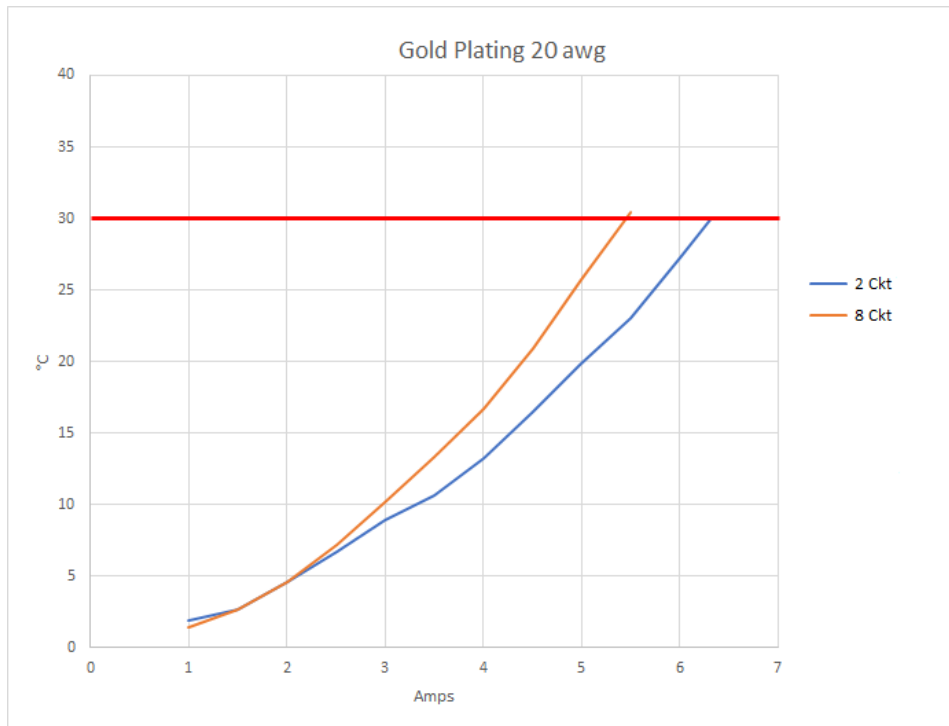
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### 4.3 MAXIMUM CURRENT RATING

Ratings shown below represent maximum current carrying capacity of a fully loaded connector with all circuits powered using UL3132 stranded wire. Ratings are based on a 30 °C maximum temperature rise limit over ambient (see section 6.1.4 for specification) with derating. Current is dependent on connector size, ambient temperature and related factors. Actual current rating is application dependent and should be evaluated for each use.

	2 CIRCUIT	3 CIRCUIT	4 CIRCUIT	5 CIRCUIT	6 CIRCUIT	7 CIRCUIT	8 CIRCUIT
<b>20 AWG</b>	6.0 A	5.9 A*	5.8 A*	5.8 A*	5.7 A*	5.6 A*	5.5 A
<b>22 AWG</b>	5.5 A	5.4 A*	5.3 A*	5.3 A*	5.2 A*	5.1 A*	5.0 A
<b>24 AWG</b>	4.5 A	4.4 A*	4.3 A*	4.3 A*	4.2 A*	4.1 A*	4.0 A
<b>26 AWG</b>	4.0 A	3.9 A*	3.8 A*	3.8 A*	3.7 A*	3.6 A*	3.5 A

\*Estimated Values.



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**4.4 TEMPERATURE**

Operating: - 40 °C to + 150 °C

**4.5 DURABILITY**

Gold Plated: 100 mating cycles

*As tested in accordance with EIA-364-1000 test method (see sec 6.2.8 of this specification). Durability per EIA-364-09*

**5.0 QUALIFICATION**

Laboratory conditions and sample selection are in accordance with EIA-364-1000

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## 6.0 PERFORMANCE

### 6.1 ELECTRICAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	<b>Contact Resistance (Low Level)</b> (Initial)	Mate connectors: apply a maximum voltage of <b>20 mV</b> and a current of <b>100 mA</b> . EIA-364-23C	<b>10.0</b> milliohms MAXIMUM [initial]
2	<b>Insulation Resistance</b>	Mate connectors: Apply a voltage of <b>500 VDC</b> between adjacent terminals and between terminals to ground. EIA-364-21C	<b>1000</b> Megohms MINIMUM
3	<b>Dielectric Withstanding Voltage</b>	Apply a voltage of <b>1700 VAC</b> for <b>1 minute</b> between adjacent terminals and between terminals to ground. EIA-364-20D	No breakdown; current leakage < <b>5 mA</b>
4	<b>Temperature Rise</b>	Mate connectors: measure the temperature rise at the rated current. EIA-364-70, Method 2	Temperature rise: <b>+30°C</b> MAXIMUM (above ambient)

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## 6.2 MECHANICAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT	
5	<b>Connector Mate and Unmate Forces</b> (Latch deactivated)	Mate and unmate connector (male to female) at a rate of <b>25 ± 6 mm (1 ± ¼ inch)</b> per minute. EIA-364-13E	<b>27.0 N (6.06 lbf)</b> MAXIMUM Mate force & <b>5.0 N (1.12 lbf)</b> MINIMUM Unmate force	
6	<b>Connector Mate and Unmate Forces</b> (Latch activated)	Mate and unmate connector (male to female) at a rate of <b>25 ± 6 mm (1 ± ¼ inch)</b> per minute. EIA-364-13E	<b>27.0 N (6.06 lbf)</b> MAXIMUM Mate force & <b>50 N (11.24 lbf)</b> MINIMUM Unmate force	
7	<b>Terminal Retention Force (in Housing)</b>	Axial pullout force on the terminal in the housing at a rate of <b>25 ± 6 mm (1 ± ¼ inch)</b> per minute.	<b>25 N MINIMUM (5.62 lbf) MINIMUM</b>	
8	<b>Durability</b> EIA-364-1000 Test Group 7 (See section 7.0)	Mate and unmate connectors up to <b>100</b> cycles at a rate of <b>300</b> cycles per hour. EIA-364-09	<b>10 milliohms MAXIMUM</b> (change from initial) & Dielectric Withstanding Voltage: No breakdown; current leakage < <b>5 mA</b> & Visual: No Damage	
9	<b>Vibration (Random)</b> EIA-364-1000 Test Group 3	Mate connectors and vibrate per EIA 364-28, test condition VII. Letter D. (Acceleration 3.1 g)	<b>10 milliohms MAXIMUM</b> (change from initial) & Discontinuity < <b>1 microsecond</b>	
10	<b>Shock (Mechanical)</b> EIA-364-1000 Test Group 3	Mate connectors and shock at <b>50 g's</b> with ½ sine wave (11 milliseconds) shocks in the ±X, ±Y, ±Z axes ( <b>18</b> shocks total). EIA-364-27, Test Condition A	<b>10 milliohms MAXIMUM</b> (change from initial) & Discontinuity < <b>1 microsecond</b>	
11	<b>Wire Pullout Force (Axial)</b>	Apply an axial pullout force on the wire at a rate of <b>25 ± 6 mm (1 ± ¼ inch)</b> . UL1977 Edition 2	<b>AWG</b>	<b>MINIMUM Pullout force</b>
			20	<b>36 N (8 lbf)</b>
			22	<b>36 N (8 lbf)</b>
			24	<b>26.7 N (6 lbf)</b>
			26	<b>17.8 N (4 lbf)</b>

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## 6.2 MECHANICAL PERFORMANCE (Continued)

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
12	<b>Terminal Insertion Force (into Housing)</b>	Apply an axial insertion force on the terminal at a rate of <b>25 ± 6 mm (1 ± ¼ inch)</b> .	<b>15 N MAXIMUM (3.37 lb<sub>f</sub>)</b>
13	<b>Housing Latch Mechanism Strength</b>	Exert an axial force at a rate of <b>13 mm per minute (0.5 inch per minute)</b> to separate the housing halves. EIA-364-98	<b>50 N MINIMUM (11.24 lb<sub>f</sub>)</b>
14	<b>TPA installation to housing</b>	Install the TPA to the Housings at a rate of <b>25 ± 6 mm (1 ± ¼ inch)</b> per minute	<b>18 N MAXIMUM (4.04 lb<sub>f</sub>)</b>
15	<b>TPA Latch strength test</b>	Axial Pullout force at a rate of <b>13 mm/ minute (0.5 inch per minute)</b>	<b>60 N MINIMUM (13.48 lb<sub>f</sub>)</b>

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## 6.3 ENVIRONMENTAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT										
16	<b>Shock (Thermal)</b> EIA-364-1000 Test Group 2 (See Section 7.0)	Mate connectors; expose to <b>10</b> cycles of: <table border="0"> <tr> <td><u>Temperature °C</u></td> <td><u>Duration (Minutes)</u></td> </tr> <tr> <td><b>-40 +0/-3</b></td> <td><b>30</b></td> </tr> <tr> <td><b>+25 ±10</b></td> <td><b>5 MAXIMUM</b></td> </tr> <tr> <td><b>+150 +3/-0</b></td> <td><b>30</b></td> </tr> <tr> <td><b>+25 ±10</b></td> <td><b>5 MAXIMUM</b></td> </tr> </table> EIA-364-32E Test condition IV.	<u>Temperature °C</u>	<u>Duration (Minutes)</u>	<b>-40 +0/-3</b>	<b>30</b>	<b>+25 ±10</b>	<b>5 MAXIMUM</b>	<b>+150 +3/-0</b>	<b>30</b>	<b>+25 ±10</b>	<b>5 MAXIMUM</b>	<b>10</b> milliohms MAXIMUM (change from initial) & Visual: No Damage
<u>Temperature °C</u>	<u>Duration (Minutes)</u>												
<b>-40 +0/-3</b>	<b>30</b>												
<b>+25 ±10</b>	<b>5 MAXIMUM</b>												
<b>+150 +3/-0</b>	<b>30</b>												
<b>+25 ±10</b>	<b>5 MAXIMUM</b>												
17	<b>Cyclic Temperature &amp; Humidity</b> EIA-364-1000 Test Group 2 (See section 7.0)	Mate connectors: cycle per EIA-364-31: <b>24</b> cycles at temperature <b>25 ± 3°C</b> at <b>80 ± 5%</b> relative humidity and <b>65 ± 3°C</b> at <b>50 ± 5%</b> relative humidity; dwell time of <b>1.0</b> hour; ramp time of <b>0.5</b> hours.	<b>10</b> milliohms MAXIMUM (change from initial) & Dielectric Withstanding Voltage: No Breakdown at <b>500</b> VAC & Insulation Resistance: <b>1000</b> Megohms MINIMUM & Visual: No Damage										
18	<b>Temperature Life</b> EIA-364-1000 Test Group 1 (See section 7.0)	Mate connectors; expose to: <b>584</b> hours at <b>150 ± 2°C</b> . EIA-364-17, Method A, Table-8.	<b>20</b> milliohms MAXIMUM (change from initial) & Visual: No Damage										

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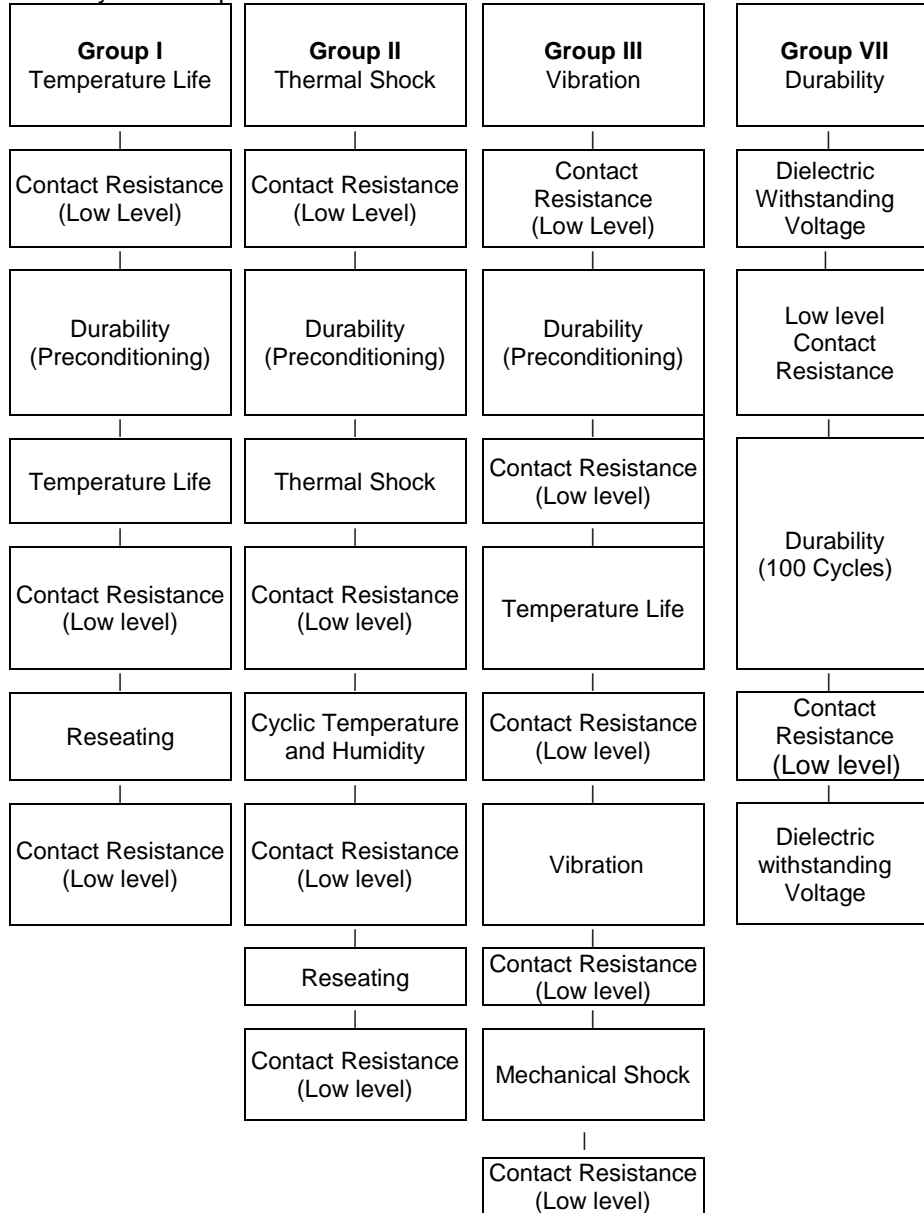


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**7.0 TEST SEQUENCE GROUPS**

Reliability Test Sequences Per EIA-364-1000



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**Individual Tests**

Connector  
Mating / Unmating Force

Terminal Insertion force

Terminal Retention force

Wire Pullout force

Housing Latch  
Mechanism Strength

TPA installation to housing

TPA Latch strength test

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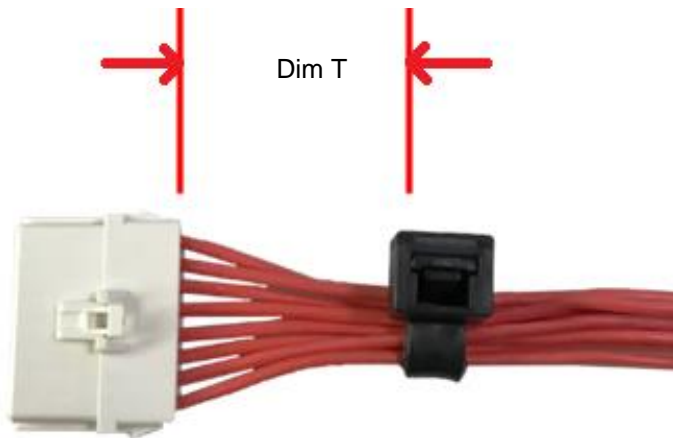
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**8.0 PACKAGING**

Parts shall be packaged to protect against damage during normal handling, transit and storage. Palletized shipment is the recommended method over single box/ single reel shipment. Refer Molex.com specific part number webpage to get the exact packaging document for that item

**9.0 CABLE TIE AND/OR TWIST LOCATION**

Circuit Sizes	Dimension T Minimum
2 to 4	0.50" (12.7mm)
5 to 8	0.75" (19.1mm)



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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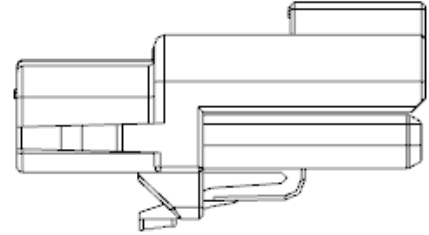
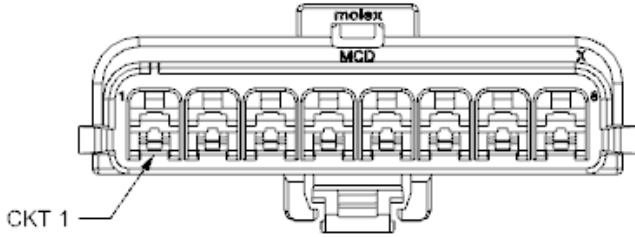


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**10.0 POLARIZATION AND KEYING OPTIONS**

**10.1 DITTO GENDERLESS CRP HSG POSLCK HT (Series: [150201](#))**



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