

GUIDELINES FOR MINI-FIT JR. DUAL-WIRE TERMINATION

1. SCOPE

This Application Specification covers application guidelines for the MINI-FIT JR. 4.20 mm (.165 inch) centerline (pitch) wire to board and wire to wire connector system with tin or 30µ" gold plating dual-terminated with combinations of 18 to 22 AWG stranded copper wire using crimp technology.

2. PRODUCT DESCRIPTION¹

Description	Series Number
Female Crimp Terminal	5556
Male Crimp Terminal	5558

3. REFERENCE DOCUMENTS¹

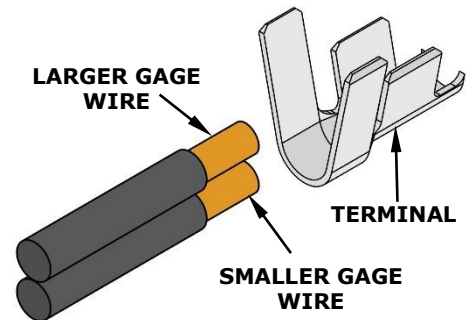
Mini-Fit Jr. Product Specification **PS-5556-001**
 Mini-Fit Jr. Dual-Wire Termination Test Summary 55560010-TS
 Mini-Fit Jr. Application Tooling Specification²

4. GENERAL APPLICATION NOTES

4.1. CRIMP AND ASSEMBLY REQUIREMENTS

4.1.1. WIRE PREP AND CRIMPING²

- Wires must be crimped in a vertical configuration with larger-gage wire farther from the terminal body than the smaller-gage wire.²



4.1.2. TERMINAL INSERTION INTO HOUSING

- Ensure complete seating of terminal retention features into housing. Large gage wires with large diameter insulation can increase difficulty in fully inserting terminal into housing.

¹ See referenced product specification for applicable product names, series numbers, and reference documents.

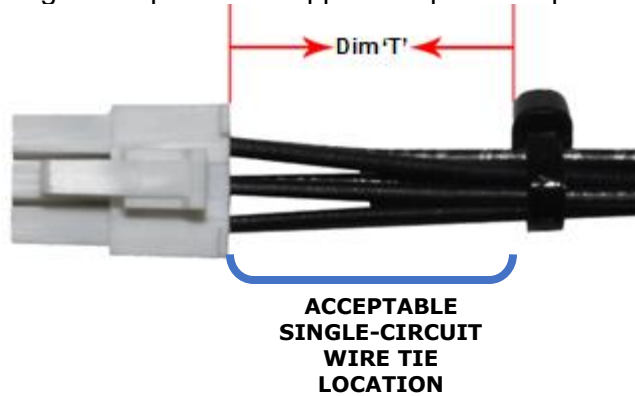
² See applicable ATS listed under terminal part number on Molex.com for crimping requirements.

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REVISION:	EC INFORMATION:	TITLE:	SHEET No.		
A	EC No: 627090 DATE: 2019/11/19	APPLICATION SPECIFICATION FOR MINI-FIT JR DUAL-WIRE TERMINATION	1 of 3		
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4.1.3. WIRE/ HARNESS DRESSING

- Dual-terminated wires exiting a single circuit may be bound together via wire tie, sleeving, shrink-wrap, etc. starting at wire exit from housing.
 - Bindings between wires exiting multiple circuits must respect minimum free length "T" specified in applicable product specification.

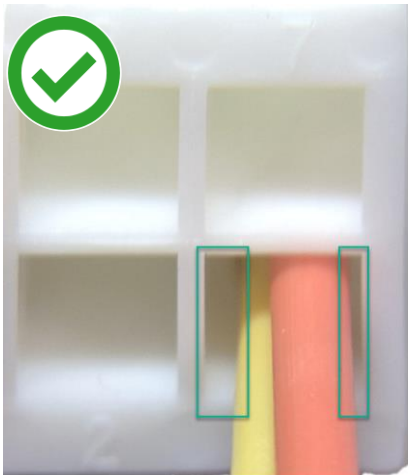


4.2. INSPECTION NOTES³

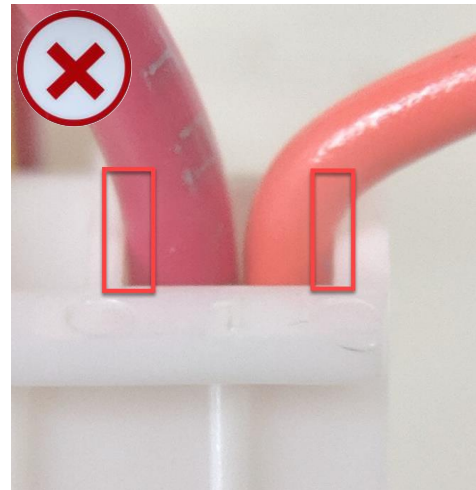
4.2.1. INSULATION-TO-HOUSING CONTACT

- Terminals must be allowed to float inside housing pocket. Wire insulation should not limit terminal movement by interfering with the housing.

**Clearance Between Insulation & Housing:
Allows for Terminal Float**



**No Clearance Between Insulation & Housing:
Interference Limits Terminal Float**



³ Inspection notes are not comprehensive. Items listed are for reference only and should be carried out as part of an application-specific inspection plan. Due to significant variations in end-use conditions Molex does not guarantee passing the inspection items listed will always result in acceptable part performance.

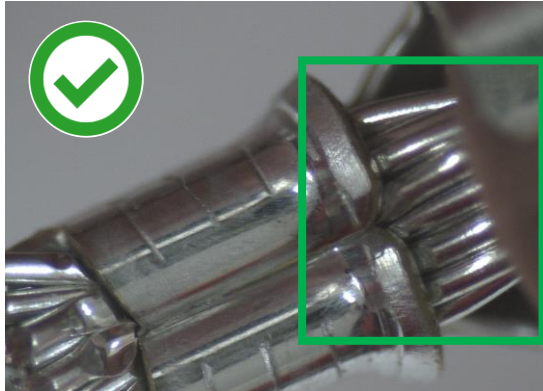
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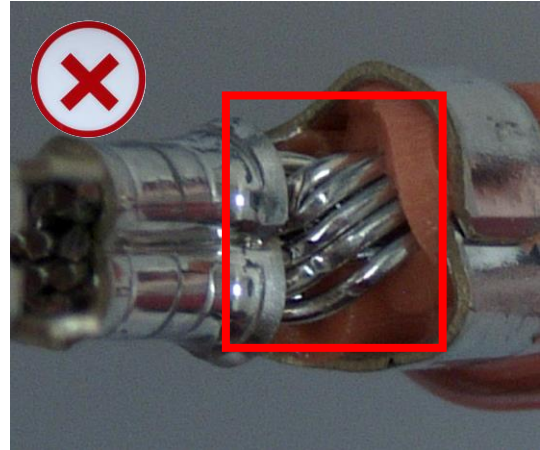
4.2.2. DAMAGED STRANDS

- Additional wire volume in conductor crimp can increase the possibility of wire damage during crimping. Inspect wire strands after crimping and before insertion of terminal/wire assembly into housing. Strands should be free of nicks, divots, or any other physical damage as they enter the conductor crimp.

Conductors Intact - Acceptable



Conductors Damaged – Unacceptable



4.2.3. TERMINAL BACKOUT

- Inspect for terminal backout due to incomplete terminal seating. See [4.1.2](#)

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