# **Application Specification**

# 114-5223

# AMP Mini Common Termination(CT) Connector 1.5mm Pitch (MT Type)

#### Scope: 1.

This specification covers the requirements for termination of 1.5mm Pitch Mini CT (Common Terminated) Connector, performed by automatic machine (DECAM) and manual tool (MINI PRESS).

#### 2. Applicable Documents:

Nomenclature	Product Part Number
Receptacle Housing Assembly	□-353293-□

3. Nomenclature of Product and Terminated Conditions.



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## Standard Criteria for Acceptance No. **Check Items** Requirement Measure the depth by using a height gage. Wire insertion depth shall be controlled within $0.6^{\pm 0.1}$ mm, when measured from the top edge of Depth of Wire 1 housing to the tool mark on the Insertion inserted wire, regardless of the wire size and insulation diameter. Wire Protrusion Length 0.5mm min. Wire end protrusion length shall be controlled within the dimension of Wire-end 2 0.5mm minimum, when measured Protrusion from the contact slot surface to the Length top of wire. Excessive protrusion of the wire end shall be rejected. Wire tip shall be recessed under top surface of housing. So long as the insulation of wire Wire-end 3 end is inserted lower than upper Insertion surface of housing, wire end Depth insertion depth is acceptable. To be continued

## 4. Requirement and Standard Criteria for Acceptance

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No.	Check Items	Requirement		Standard Criteria for Acceptance	•
4	Exposure of Wire Conductor	Any inserted wire being da with broken insulation, re- visible conductor shall be reje	umaged sulting □	nination appearing normal wi of damage is acceptable. Good	thout
		Wire conductor exposed on top is accpetable.	10.78499683	tuctor is visible → No good Exposed on the top is accpetable	
5	Wire Retention over the Cavity	Termination wire shall be per inserted into the wire suppo of the housing shown in Fig.1 Elongation of wire insulat acceptable if it dose not adv affect the required function.	→ erfectly ort hole 1. tion is versely One	shall be located below X. Good X Side of crumple is located below X X	<b>C</b>
6	Position Uniformity of Upper Edges of Contact Slot	After termination, the upper of inserted contact slot shal inline uniformity.	r edges	deviation not exceeding the thic ntact (0.2mm) shall be allowable.	
		To be	e continued		
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No.	Check Items	Requirement	Sta	andard Criteria for Acceptance	_
7	Damage of Contact and Housing	After termination, any evidence tool mark damage at the hous and contact slot area is acceptable.	of ing	t> mark is allowable. g is allowable on condition that t is not fully removed.	he
				rk is allowable. r, it shall be free from crack, bu	lge
			(	Allowed scratch mark by wire conductor	
8	Deviation of Wire Axis Alignment	Inserted wire shall be aligned evenly with the centerline of contact axis. After termination, the four corr of the contact shall appear in symmetrical uniformity	Tool ma wire. Th	terminated condition in slot. The shall be located at the center the insulation of wire shall be equa- rically in place ① and ②.	
)	1	To be	continued		
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No.	Check Ite	ems	Requirement	Standard Criteria for Acceptance
		a)	Any contact once terminated, shall not be reused	
9 Others	b)	The random termination making is acceptable.	At the time for random termination, the scratch mark of the wire support area is acceptable unless affect the required function. Other appearance shall meet the above inspection criteria.	

End

## 5. Wire Retention Force

(The specification values are based on the actual measured readings.)

The requirements for the tensile strength, when the pull-off load is applied in the directions, traverse and along the contact axis (refer Fig.1), are shown in Table.2.

Table.2	[Unit:N(kg)]	
Wire Size	Axial Direction	Traverse Direction
AWG #28	14.7N (1.5kg) MIN	11.8N (1.2kg) MIN.
AWG #26	19.6N (2.0kg) MIN	11.01 (1.2Kg/ WIIN.

### 6. Applicable Wire

- A. Applicable Wire Size
  - AWG #28, #26  $(0.08 \sim 0.14 \text{ mm}^2)$
- B. Applicable Insulation Diameter

1)	Harness C	ondition (Refer Fig.2)	
	A-Side	B-Side	Insulation Diameter
1)	Mini CT	Mini CT	Ø0.8 ~ 0.95mm
2)	Mini CT	CT	$\emptyset 0.83 \sim 0.95$ mm

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2) Conformity of harness condition and DECAM. (Refer Table.3)



			DECAM	
A-Side	B-Side	Auto	Semi-Auto	D-NJ
Mini CT	Mini CT	0	0	0
Mini CT	CT	0	0	0

(Note) Please refer to machine specifications about selection of a machine.

Table.4 Example of Applicable wire

Wire Size (Nominal)	Strand / Diameter	Calculated Cross Sectional Area (mm <sup>2</sup> )	Insulation Diameter (mm)	Applicable Wire
AWG #26	7/0.16	0.14	0.86~0.95	UL-10272
		0.11	0.00 0.00	UL-3610
AWG #28	7/0.127	0.09	0.85~0.95	UL-1061
	110.121	0.09	0.85~0.95	UL-3443

All wires, including the above mentioned, need to be approved prior to usage.

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