Application Specification 114-5103

Common Termination (CT) AMP-IN Header Termination of 2mm Pitch MT, Vertical(V) and Horizontal(H) Types

1. Scope:

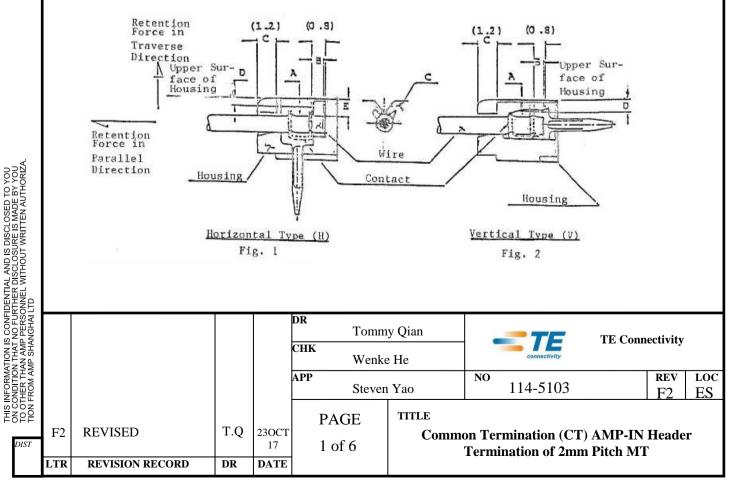
1.1 Contents:

This specification covers the requirements for termination of condition by automatic machine application (S-DECAM) and manual tool (Mini-press).

2. Applicable Documents:

Nomenclature	Catalog No.	Applicable Wire
CT AMP-IN Horizontal Type (H)	□-173983-□	UL-1061, UL-1571 AWG #28-#26 Insulation Diameter 0.83mm-1.05mm
CT AMP-IN Horizontal Type (V)	□-173985-□	

3. Details of Nomenclature & Terminating Condition:

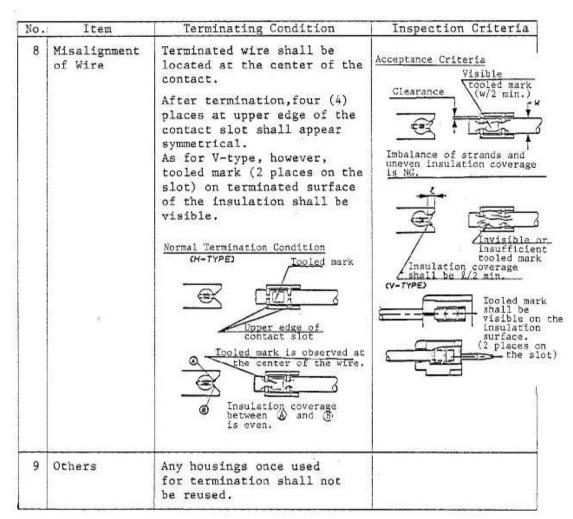


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4. Termination Condition and Inspection Criteria:

No.	Item	Terminating	Condition		Inspection Cret	eria	
1	Depth of Wire Insertion (A of Figs. 1 and 2)	Regardless of a insulation diag of wire insert contact slot si 1.3mm(-0.15) who from upper sur housing to the insulation sur wire as shown and 2.	meter, dep ion into hall be en measure face of th tool mark face of th	th d ed e	Measuremer shall be of by height gauge, et as explai in the si	lone	
2	Length of Wire End Protrusion (B of Figs. 1 and 2)	Length of wire after terminati- such that dimen- between contact end shown in Fi shall be 0.4mm Excessive dimen- acceptable.	on shall be sion "B" slot and p gs.1 and 2 min.	e eire			
3	Depth of Wire Tip (D of Figs. 1 and 2)	Wire tip insul not protrude f surface of the	rom upper	1	Wire tip shall be recessed under top Surfac housin		
4	Exposure of Wire Conductors	Any evidence of insulation and strands is not	/or exposu	re of	Termination appearing norms without sign of damage is acce Termination conductor between the not accepts Exposed on the to is acceptable	eptable on with exposing e slot is able IO GOOD	
		Wire conductor exp is accpetable.	osed on the	top		>	
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No.	Item	Terminating Co	ndition	Inspection Criteria		
	Condition of Wire Reten- tion (C of Figs. 1 and 2)	Terminated wire shall be perfectly inserted into the wire support hole of the housing shown in Figs. 1 and 2. Elongation of wire insulation is acceptable if it does not adversely affect the required function.		Wire shall be located below X. X. (Crumples on wi are acceptable provided that are located be Clearance Cl	they they X.)	
	Position of Upper Edge of Contact Slot	positions shall b at the upper edge contact slot.	e aligned of the maller ct plate er edge of	Acceptable up to the contact plate thick- ness.	WITE.	
4	Damage of Contact and Housing	After termination evidence of toole damage at the hou contact slot area acceptable excepts by wire conductor as Dimpled zone aften nation shall appe symmetrical.	d mark sing and s is not cratch mark right fig. er termi-	(Housing) Dimple Scratch or dimple is acceptable, but extoliation of plat- ing is not accept- able. Toolmark is allowable. (However, it shall be free from crack, bulge, etc.) (Contact) Scratches are allowable but, exfoliation of plating is not acceptable. Allowed scratch mark by wire conductor	e.	
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5. Wire Retention Force: (All of the actual measurement shall conform to the requirements.)

The requirements for the tensile strength, when the pull-off load is applied in the directions, traverse and along the contact axis, are shown in the table shown below.

Discrete	e Wires	1.225-7					
Wire	e size	Traverse Direction	Para	Ilel Direction			
AW(G #28	11.8N(1.2kgf) Min.	14. 7	N(1.5kgf) Min.			
1 2007	G #26 10272)	11.8N(1.2kgf) Min.	19. 6	N(2.Okgf) Min.	_		
19493 - 204033	6(except 72) & #24	14.7N(1.5kgf) Min.	19. 6	N(2.Okgf) Min.			
For shie	elded wire	es & 2mm pitch ribbo	n cable	es.			
Wir	e size	Traverse Direction	Para	Ilel Direction			
AW	G #28	7.8N(O.8kgf) Min.	14. 7	N(1.5kgf) Min.			
AW	G #26	7. ON (O. OKG17 MITL	19. 6	N(2.Okgf) Min.			
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6. Applicable Wire Sizes:

Applicability of the respective wire should be evaluated before use.

6.1 General Wire Specification:

	ble Wire ication	Wire Size (Nominal)	Number of Strands / Diameter of Strands	Calculated Cross-SectionalArea (mm²)	Diameter of Insulation (mm)
Discrete	UL 1571				
	UL 1061	AWG #26	AWG #26 : (7/0.16)	AWG #26 : (0.14)	AWG #26 : (0.93~1.05)
R i bbon	UL 2651	1			
Cable	UL 20058				
Flat	UL 1533	1			
Shilde Cable	UL 2547	AWG #28	AWG #28 : (7/0.127)	AWG #28 : (0.09)	AWG #28 : (0. 83∼0.97)
Gable	UL 1691				
	UL 2791				

Note: The compatibility and applicability of the terminating wires are to be evaluated by AMP engineering, respectively according to the types and manufacture's product name, before starting production run.

6.2 Alumium Shielded, Flat Cables:

Termination Cable Condition: The terminated condition of the cable shall be conforming to Fig.3, for the cables conforming to UL-2547 and UL-1533 Types.

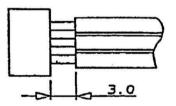
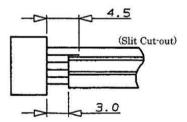
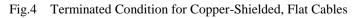


Fig.3 Terminated Condition for Flat Shield Cables

6.3 Copper Shielded, Flat Cables:

Termination Cable Condition: The terminated condition of the cable shall be conforming to Fig.4, for the cables conforming to UL-2791 and UL-1691 Types.

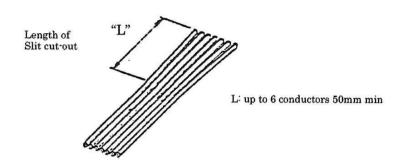


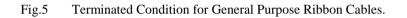


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6.4 Requirements for General Purpose Ribbon Cables: Terminated Cable Condition: Preparation Slit cut-outs shall be made between the conductors to the length as specified

in Fig.5.





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