

APPLICATION SPECIFICATION

114-51010

AMP MINI COMMON TERMINATION (CT) CONNECTOR, 1.5MM PITCH (CRIMP TYPE)

1. SCOPE

This specification covers the requirements for crimping of 1.5mm pitch Mini CT (Common Terminated) Connector (Crimp Type) for applicator and manually operated hand tool.

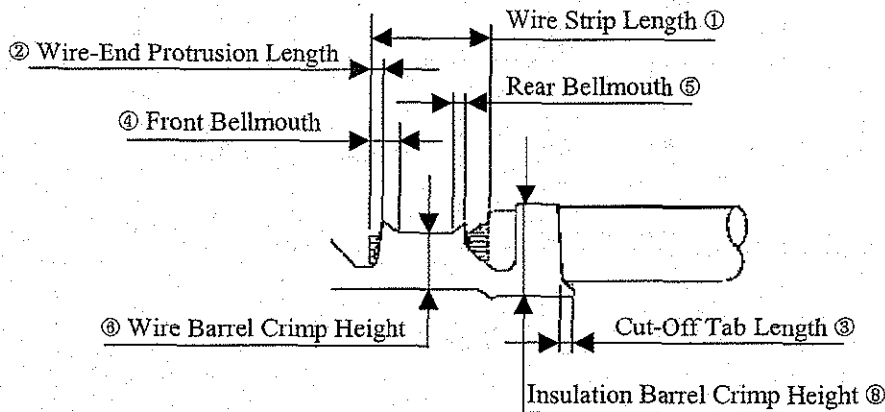
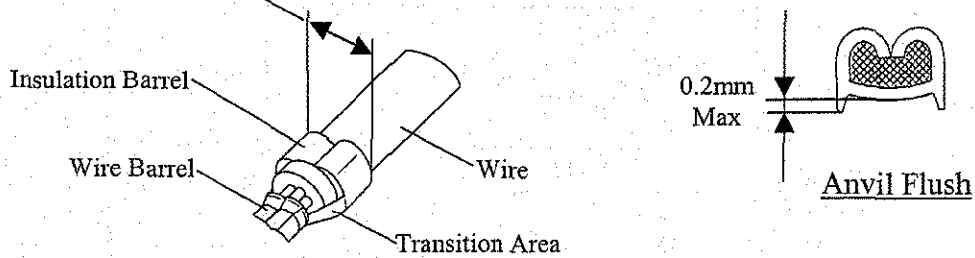
2. APPLICABLE PRODUCTS

This instruction sheet is applicable to products shown below:

Contact Form	Product Part No.	Crimping Tool	Wire Size	Insulation Diameter
Strip Terminal	84727-1	Applicator	0.09mm ² ~ 0.23mm ²	Ø0.85mm ~ Ø1.05mm
Loose Piece (L/P)	84807-1	Hand Tool	(AWG #28 ~ #24)	

3. NOMENCLATURE

⑦ Insulation Barrel Width

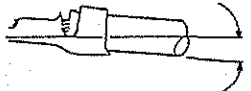
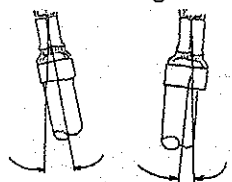
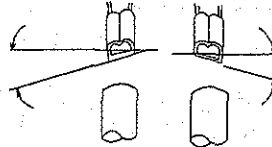


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				PRE:	
B	Revised (FP00-0335-01)	P. H. Ng	24/8/2001	See Back Page	AMP Mini Common Termination (CT) Connector, 1.5mm Pitch Crimp Type
A	Revised (FP00-0270-01)	P. H. Ng	17/7/2001	APP:	
O	Released (FP00-0217-01)	P H Ng	19/6/2001	1 of 4	
REV	REVISION RECORD	PRE	DATE	PAGE:	NO: 114-51010
					REV: B

AMP-QA-182 REV.0

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4. CRIMPING REQUIREMENT

No.	Check Items		Crimping Requirements		Remarks
			Applicator	Hand Tool	
1	Wire Strip Length		1.7±0.2 mm		Refer to ① of Fig.1
2	Wire-End Protrusion Length		0 ~ 0.5 mm		Refer to ② of Fig.1
3	Cut-Off Tab Length		0.4 mm Max.		Refer to ③ of Fig.1
4	Bellmouth	Front	Presence of Front Bellmouth is optional		Refer to ④ of Fig.1
		Rear	0.1 ~ 0.35 mm		Refer to ⑤ of Fig.1
5	Wire Barrel Crimp		Refer Table 1		Refer to ⑥ of Fig.1
6	Insulation Barrel Width		1.20mm Max		Refer to ⑦ of Fig.1
7	Insulation Barrel Crimp Height		Refer Table 1		Refer to ⑧ of Fig.1
8	Allowable Deviation after Crimping	Bend-Up 	3°Max.	5°Max.	
9		Bend-Down 	3°Max.	5°Max.	
10		Twisting 	3°Max.	5°Max.	
11		Rolling 	5°Max.	5°Max.	

Tool mark is allowable at crimped areas and transition areas only.

5. CRIMPING DATA

Table 1.

Contact Part No.	Applicator Part No.	Wire Size		Insulation Strip Length ($\pm 0.2\text{mm}$)	Wire Barrel			Insulation Barrel		Finished Insulation Diameter
		No. of Wires	Size (AWG)		Crimp Width	Crimp Height ($\pm 0.03\text{mm}$)	Disk Mark	Crimp Width	Crimp Height	
84727-1	1463153-2	1	0.23mm ² (#24)	1.7mm	1.0mm 'F'	0.75mm	A	1.07mm 'F'	1.5mm Max.	$\varnothing 0.85\text{mm}$ ~ $\varnothing 1.05\text{mm}$
		1	0.14mm ² (#26)			0.69mm	B			
		1	0.09mm ² (#28)			0.64mm	C			

Table 2.

Wire Size (AWG)	Crimp Tensile Strength N (kgf) Min.
24	29.4 (3.0)
26	19.6 (2.0)
28	14.7 (1.5)

Note:

- Tool mark is allowable at crimped areas and transition areas only.
- The dimensions of crimp width of wire barrel and insulation barrel are the dimensions of crimping tool.

6. EXAMPLES OF APPLICABLE WIRE

Table 3.

Wire Size	Strand / Diameter	Calculated Cross Sectional Area (mm ²)	Insulation Diameter (mm)	Application Wire
AWG #24	7/0.203	0.23	$\varnothing 0.95 \sim \varnothing 1.05$	UL-1728
AWG #26	7/0.16	0.14	$\varnothing 0.85 \sim \varnothing 1.03$	UL-10272
				UL-1061
				UL-3610
AWG #28	7/0.127	0.09	$\varnothing 0.85 \sim \varnothing 0.95$	UL-1061
				UL-3343

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

7. VALIDATION

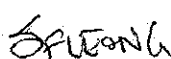
Approvals:



27 AUG '01

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