

## APPLICATION SPECIFICATION

114-51010

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

#### 1. SCOPE

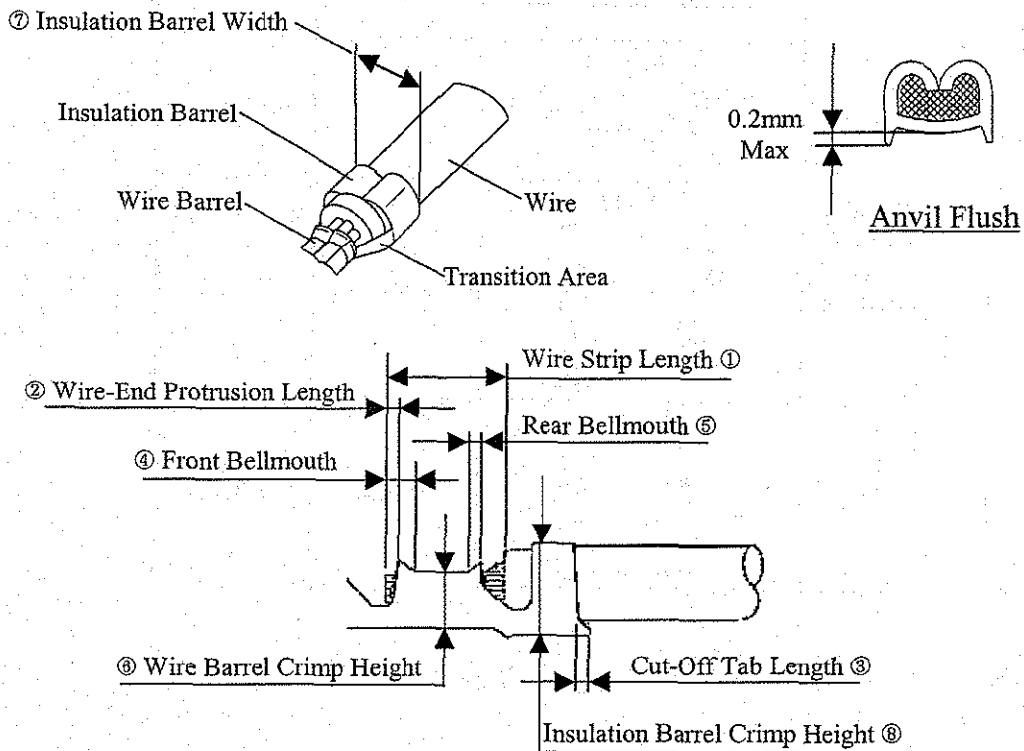
This specification covers the requirements for crimping of 1.5mm pitch Mini CT (Common Terminated) Connector (Crimp Type) for applicator and manually operated hand tool.

#### 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 <sup>2</sup> ~ 0.23mm <sup>2</sup>	Ø0.85mm ~ Ø1.05mm
Loose Piece (L/P)	84807-1	Hand Tool	(AWG #28 ~ #24)	


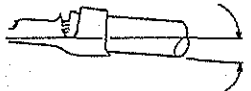
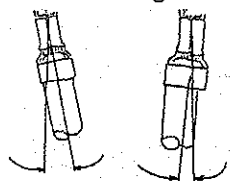
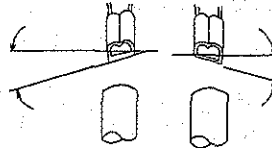
#### 3. NOMENCLATURE



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				P.H.Ng PRE:	Tyco Electronics AMP Manufacturing (S) Pte Ltd No. 26 Ang Mo Kio Industrial Park 2 Singapore 569507
B	Revised (FP00-0335-01)	P.H.Ng	27/8/2001	See Back Page	
A	Revised (FP00-0270-01)	P.H.Ng	17/7/2001	APP:	<b>AMP Mini Common Termination (CT) Connector, 1.5mm Pitch Crimp Type</b>
O	Released (FP00-0217-01)	P.H.Ng	19/6/2001	1 of 4	
REV	REVISION RECORD	PRE	DATE	PAGE:	NO: <b>114-51010</b>
					REV: <b>B</b>

#### 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 Table1		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.*

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## 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 <sup>2</sup> (#24)	1.7mm	1.0mm 'F'	0.75mm	A	1.07mm 'F'	1.5mm Max.	Ø0.85mm ~ Ø1.05mm
		1	0.14mm <sup>2</sup> (#26)			0.69mm	B			
		1	0.09mm <sup>2</sup> (#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 <sup>2</sup> )	Insulation Diameter (mm)	Application Wire
AWG #24	7/0.203	0.23	Ø0.95 ~ Ø1.05	UL-1728
AWG #26	7/0.16	0.14	Ø0.85 ~ Ø1.03	UL-10272
				UL-1061
				UL-3610
AWG #28	7/0.127	0.09	Ø0.85 ~ Ø0.95	UL-1061
				UL-3343

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

7. VALIDATION

Approvals:



27 AUG '07

Choo Wing Lian

Section Manager, Product Engineering Department



Leong See Fan

Division Manager, Product Engineering Department

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