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Application Specification (TENTATIVE) 114-5127

Termination of SM Micro Connectors

1. Scope:

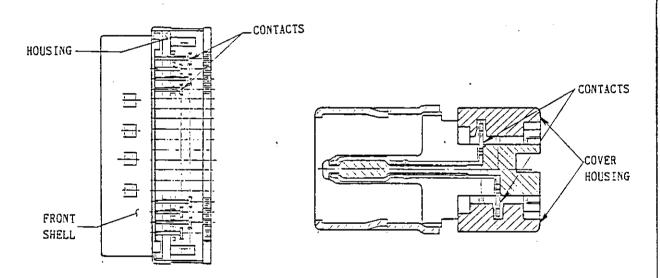
This specification covers the requirements for termination of SM Micro Connectors. The part numbers of the applicable products are shown in Fig. 8.

This specification is applicable to the termination of both hand tool and automatic terminating machine applications. The part numbers of the tooling are also shown in Fig.9.

The wires to be used for termination shall be conforming to the requirements specified in Para. 3.

2. Nomenclature of the Products:

2.1 Male Connector Kit:



MALE CONNECTOR BASE ASS'Y

Fig.1

			2-22-36 AMP, Japan), Lee TONG, JAPAN
1.683			Ishikawa) 22-FEB 88 J A 114-5127 0
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3. Applicable Wires:

3.1 Composition of the Wires:

Items	Size	#30 AWG	#28 AWG
	Material	Tin-Plated	Copper Soft Wire
Conductor	Composition	7/0.1	7/0.127
	Diameter(mm)	0.3	0.38

The pitch of the conductor thread must be within 6.0 mm.

Fig.2

3.2 Specifications of the Cable:

	Item	ıs		#30 AV	viG .	# :	28 AWG		
	rial	Poly-vinyl Chloride-Insulated or equivalent							
Insulation				0.15		0.10	0.13		
	Diam	eter		0.60		0.58	0.64		
Wire Type			Twiste	d-Pair W:	ire (Ref.)			
Braid Type			Braid-	Braid-Composition					
Type of Strand			Taping	Taping applied for stranding					
Shielding			Thin-plated copper wires-braided 80% Shielding						
	Mate	rial	Poly-v	inyl chlo	oride				
		20P		6.0		6.0	6.0		
		26P		6.5		6.5			
	OD	36P		7.5		7.4	7.5		
(mm) 50P			8.0		8.0	8.0			
1		68P		8.8		8.8			
		96P		10.0		10.0			

Fig.3

AMP recommended cables are shown in the Applicable Cable Listing to be prepared separately from this specification.

4. Reparation of Wires:

4.1 Jacketed Wire:

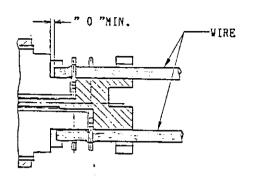
- (1) Jacketed wires shall be prepared by stripping the shield insulation to the length specified in Fig.7, prior to terminating operation.
- (2) During the stripping operation of the shield jacket insulation, proper care must be taken not to cut or nick the inside conductors.
- (3) Other preparation must be performed according to the drawings prepared separately from this specification.

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5. Requirements:

5.1 Wire-End Protrusion Length: (Refer to Para. 5.6.)

The terminated wire end must be protruding 0.5 mm min. from the contact end, and its feature shall be conforming to the condition, shown below.



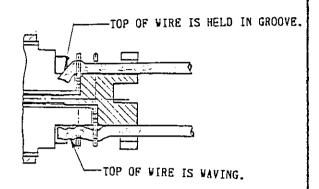


Fig.4

5.2 Squash and Damaging of Wire:

Squashing and damaging of the wires after terminating are tolerable within the range as specified in Para. 5.4.

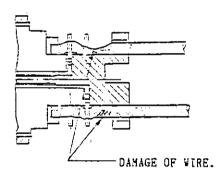
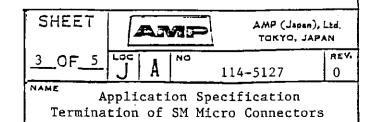


Fig.5

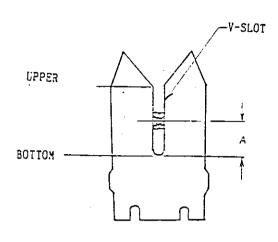
5.3 Deformation of Contact:

After termination the contacts shall be free from the deformation and/or flaw.



5.4 Depth of Termination of Wire:

The terminated wires must be securely gripped in the contact slot to the depth as specified below.



Diameter of Insulation	"A" Dimension	
0 5 ∿ 0.7	0.85/0.35	

Fig.6

5.5 Appearance of Housing after Termination:

Housing shall appear without abnormalities such as flaws and chipping that are detrimental to connector functions.

5.6 Appearance of Terminated Wires:

The terminated wires shall appear normal without any sign of the conditions shown below.

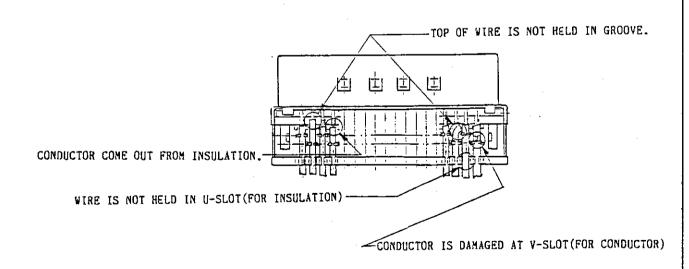


Fig.7

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Type	Kit Part No.	Connector Part No.	No. of Pos.	Diameter of Wire (mm)	Remarks
	174731-1	174730-1	20		1
]	174731-2	174730-2	26	0.5 mm	
Male	174731-3	174730-3	36		
Connector	174731-4	174730-4	50	0.7 mm	
	174731-5	174730-5	68		
	N/A	N/A	96		

Fig.8

Part No.	Nomenclature	Number of Termination/ Cycle	Applicable Length of Wires (mm)	Maximum Number of Positions
91122-1	Palm-Grip Tool Terminating each one position	1	70 mm min.	
91123-1	Hand Press Assy	Half No. of Positions	70 mm min.	. 50
91149-1	Manual Mini-Press	Half No. of Positions	70 mm min.	100
91124-1	Air Terminator	All No. of Positions	70 <u>+</u> 5 mm	100
91125-1	Semi-automatic Programmable Terminator	All No. of Positions	70 <u>+</u> 5 mm	100

Fig.9

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