114-5078

Application Specification

Termination of AMP-ULTREX* 2.5/2.54mm Series Connectors

1. Scope:

- 1.1 Applicable Wire Specifications:
- 1.1.1 Type of Wire to Be Applied:

PVC Insulated Wires

1.1.2 Wire Sizes:

#28 AWG $0.08 - 0.09 \text{ mm}_2^2$ #26 " $0.12 - 0.15 \text{ mm}_2$ #24 " $0.20 - 0.22 \text{ mm}^2$

1.1.3 Conductor Composition:

Tin-coated stranded wires, tin-plated solid wires or

tin-plated stranded wires (7 strands)

1.1.4 Insulation Diameter:

0.88 - 1.56mm

2. Nomenclature:

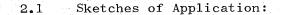
For the purpose of this specification the illustrations of the connector application are shown, so that proper seating of contact in the connector cavity can be described.

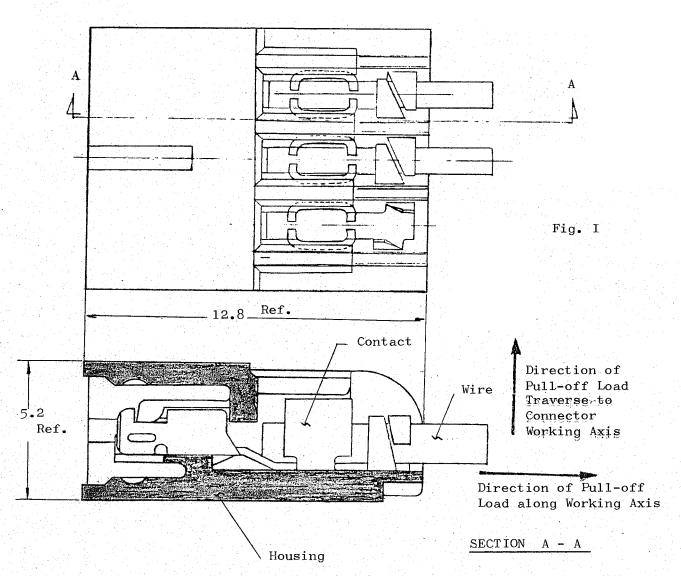
The sketches are shown in sheet 2 of 5.

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	c_1	Revised RFA-1014		ELC.	91	Mulamue		AA D	AMP (Japan), Ltd.
	С	Revised RFA-1119	MA	4.4	1687	CHK 20 200 Land		AAV	TOKYO, JAPAN
	В	Revised RFA-1055	(HD)	W	9-11	APP	Loc	NO 114-5	O78 REV
	A ₁	Para. 3.1.2 0.5mm / Was 5mm	100	Am	10-3	CUEET NA	VE Applicat	ion Specifi	\sim 1
	A	Released RFA-677	1	M		SHEET	Termination	of AMP-ULTR	EX* 2.5/2.54mm
a. e	LTR	REVISION RECORD	DR	снк	DATE	1 OF _5	Series Conne	ectors	

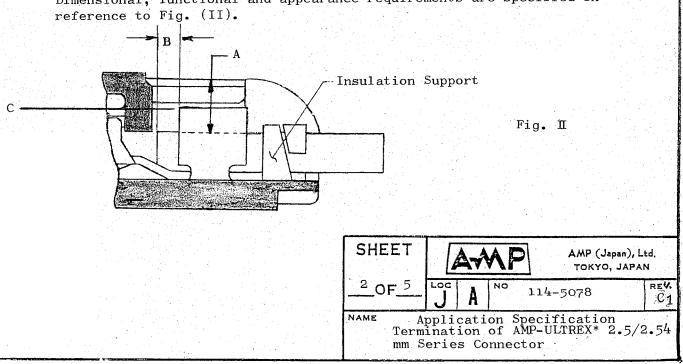
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Requirements for Connector Termination: 3. .

Dimensional, functional and appearance requirements are specified in



- NUMBER
- Customer
- AMP SECURITY CLASSIFICATION

- Terminating Conditions: 3.1
- Depth of Wire Insertion into Contact Slot: 3.1.1

Depth of wire insertion into contact slot shall be in the range of 1.9 - 2.5mm, when measured from the upper portion of housing to the toolmarked insulation surface of the wire by using vernier callipers as shown in Fig. II - A, regardless of wire sizes and insulation diameter.

3.1.2 Length of Wire End Protrusion:

The length of wire end protrusion beyond the front contact slot; as shown "B" in Fig - II, shall be not less than Owamm. And the wire insulation and the conductor shall not protrude beyond the limit as shown with "C" in Fig. II.

Insulation Support Crimp: 3.1.3

> Terminated wire shall be securely gripped in the insulation barrel as shown in Fig. II and Fig. III, When wires having a large diameter are used for termination, insulation barrel may cut into insualtion to some extent, but no conductor strand shall be cut off as a result of termination.



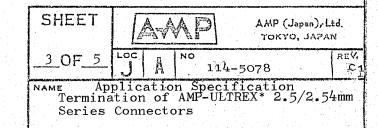
3.2 Appearance:

3.2.1° Wires:

Terminated wires shall appear normal without evidence of cut, nick and damages on the portions other than wire termination, that is detrimental to connector functions.

3.2.2 Housing:

After termination, connector housing shall appear normal without evidence of damages that are detrimental to connector fucntions.



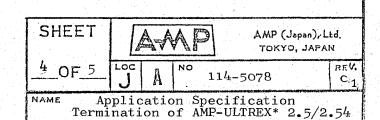
3.2.3 Contact:

After termination, contact and housing shall appear normal without evidence of damages by tooling on the terminated area. The tooled damage on the terminated insulation barrel portion, shall be not greater than one third of the stock thickness of contact.

3.3 Tensile Strength of Terminated Contact:

After termination, contact shall exercise sufficient tensile strength in connector working axis and also in the traverse direction to the axis, meeting the requirements apecified in the following table.

Wire	Size	Tensile Strength Axial Direction	Tensile Strength Traverse Direction		
mm ²	(AWG)	kg (Min.)	kg (Min.)		
0.08	(#28)	1,5	1.0		
0.13	(#26)	2.5	1.5		
0.2	(#24)	3•5	1.8		



mm Series Connectors

	4. Criteria of Termination Acceptance:								
		Check Points	Requirements	Ø K or NG	Appearance	Descriptions			
114-5078			Upper edges of contact must be flush and parallel after termination.	0		Contact body appearing normal without deformation			
NUMBER	1			×		Contact body deformed inside one side or both sides			
				×		Contact body deformed out-side, one side or both sides.			
TY Customer TON Release	2		Contact slot must appear symmetrical without signs	0	Difference of the height of the upper edges of contact (2 places) not greater than 0.3mm shall be acceptable.				
AMP SECURITY CLASSIFICATION			of difference of edge height as shown.	×	Difference of the height of the upper edges of contact (2 places) greater than O.3mm shall be not acceptable.				
	3	B B B	Contact slot must appear symmetrical without signs of aberration as shown.	0	Aberration not greater than 0.3mm shall be permissible, when measured at the points B and B' as shown.				
				×	Aberration greater than 0.3 mm shall be not acceptable, when the difference of contact beams is measured(B-B').				
	4	Contact shall appear normal without signs of deformation by the terminating tooling		0	As a result of abnormal effects of termination, deformation or aberration speciffied in Steps 1, 2 & 3, is not greater than the limit.				
				×	As a result of abnormal nation, deformation or a fied in Steps 1, 2 & 3, the limit.	berration speci-			
	5		Insulation must be placed symmetrical over the center line of contact slot.	0	Unsymmetrical placement of insulation to the center line of contact, not greater than 0.3mm shall be permissible.				
				×	Unsymmetrical placement to the center line of co than 0.3mm, shall be not	ntact greater			
					NAME Application Spec	AMP (Japan), Ltd. TOKYO, JAPAN -5078 REV. C.1 ification			
	TELEVISION CO				Termination of AMP-ULTREX* 2.4/2.54mm Series Connectors				