

PRODUCT SPECIFICATION
6-WAY DRAWER CONNECTOR

TENTATIVE
THIS SPECIFICATION IS BASED ON
PRELIMINARY TESTING. AMP MAKES NO
REPRESENTATION OR WARRANTY THAT THE
PRODUCT DESCRIBED HEREIN WILL COMPLY
WITH THESE SPECIFICATIONS, AND NO
SUCH REPRESENTATION OR WARRANTY
SHOULD BE OR IS IMPLIED.

1. SCOPE

1.1 This Specification covers the performance requirements
of connector assemblies comprising AMP* Part Numbers:

- 343887-1 PCB Header Housing
- 343886-1 Socket Housing
- 583294-1 Leaf Contact - Solder Tab
- 583990-3 Leaf Contact - Crimp on
- 343404-1 Slotted Pan Head Shoulder Screw (M3)

QUALIFICATION

1.2 Inspection shall be carried out against the appli-
cable customer drawing; testing shall be performed in
accordance with paragraph 4 of this specification.

2. APPLICABLE DOCUMENTS

- AMP Drawings C343886
- C343887
- C583990
- C583294
- C343404

These documents form a part of this specification. In the
event of conflict, the customer drawings shall take preced-
ence over the requirements of this specification.

3. REQUIREMENTS

3.1 DESIGN: Construction and dimensions shall conform to
the applicable customer drawing requirements.

3.2 RATING: The connectors shall meet the requirements of
this specification after 200 mating cycles performed
according to Section 4.

The maximum continuous current carried by the contacts
shall be 4 amperes, based on a temperature rise of
30°C when crimped onto 20 AWG cable.

The normal working voltage shall be 5V D.C.

Operating temperature range -10/+80°C.

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DIST	3	200 I/W WAS 5000	RWB	APP	DATE	DR	B. GOLD			AMP TERMINAL HOUSE, STANMORE, MIDDLESEX. of Great Britain Ltd.			
	2	Revised				CHK	<i>B. Meller</i>				LOC	NO	REV
	1	First Issue				APP	<i>B. Meller</i>						
	LTR	REVISION RECORD				APP	DATE	SHEET			TITLE		
						1 OF 4			6 WAY DRAWER CONNECTOR PERFORMANCE SPECIFICATION				

4. QUALIFICATION TESTS

4.1 Test Methods and Requirements.

Test Description	Test Procedure	Requirements
Mating Force	Measure the force necessary to mate header and socket connector assemblies using a suitable machine	50N max.
Unmating Force	Measure the force necessary to unmate header and socket connector assemblies using a suitable machine.	50N max.
Contact Resistance	Using an open circuit voltage of 20mV max. and a current of 20mA max., measure the resistance between the points shown in Figure 1.	20mΩ max.
Durability	Mate and unmate the header and socket connector assemblies using a suitable machine for 200 cycles.	Shall meet the requirements of subsequent tests.
Contact Retention	Apply an axial load of 20N to each cable from the socket connector. Test each circuit of each mould tool cavity.	Contact shall not be dislodged.
Inhibition	Attempt to mate the connector assemblies 180° out of alignment with a force of 100N.	The connector assemblies remain intact and no electrical contact shall be made.
Misalignment	Mate the header and socket connector assemblies in the correct orientation with a mounting plate misalignment of 1.0mm.	The connector assemblies shall fully mate with a force not exceeding 50N.

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4.2 Test Sequence

The test samples shall be subjected to the tests shown in the following order:

Test Description	Sequence
Inhibition	1
Misalignment	2
Contact Resistance	3, 5
Durability	4
Mating Force	6
Unmating Force	7
Contact Retention	8

4.3 Test Samples

Ten mating assembly pairs, with contacts, selected at random from production shall be used for the tests described herein.

The header assemblies shall be mounted on a suitable PCB in accordance with the recommendations on the customer drawing.

The socket housings shall be loaded with contacts crimped onto cable, and mounted on a suitable plate with the panel cut-out details in accordance with the customer drawing, secured with shoulder screws 343404-1.

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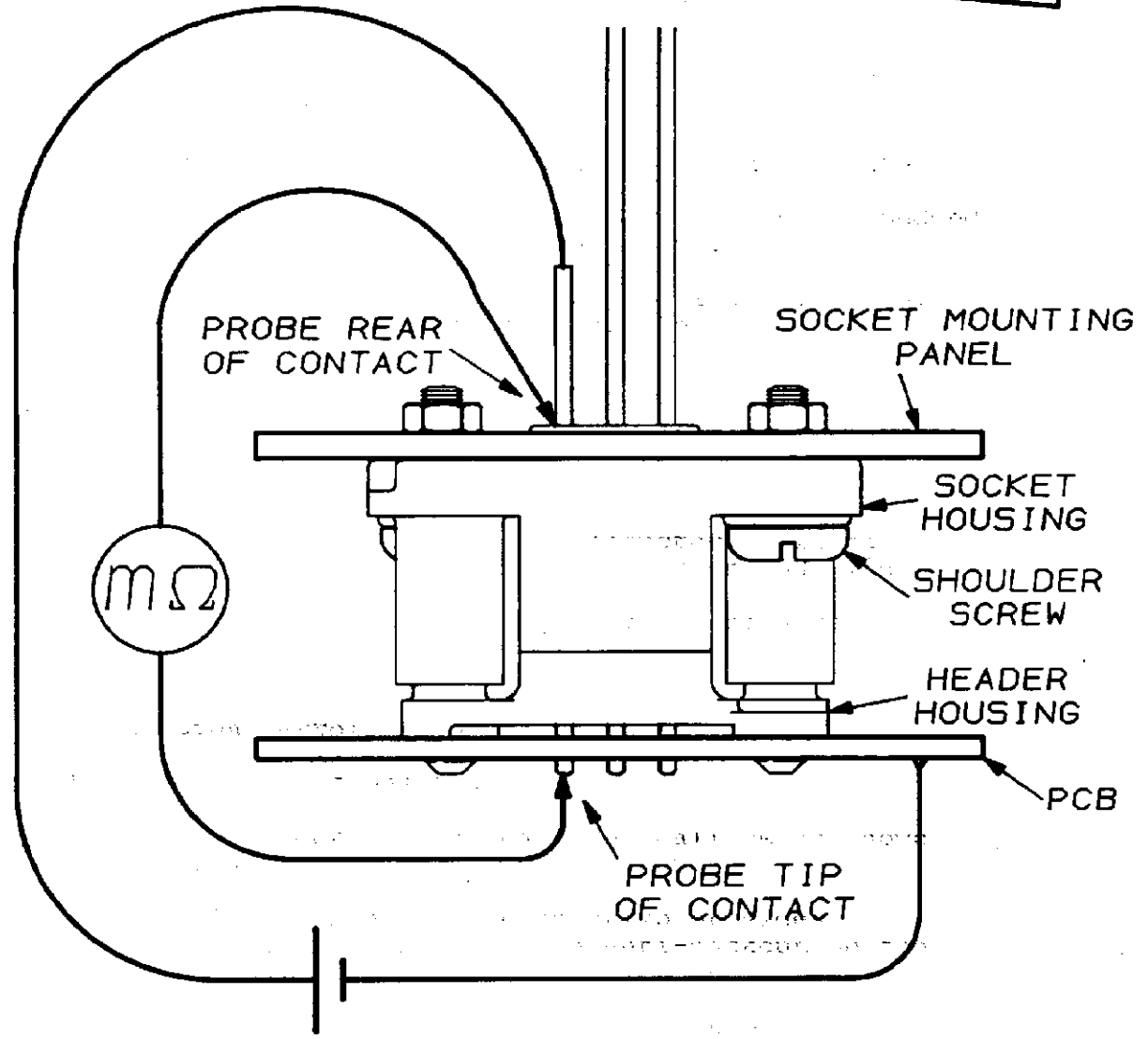


FIGURE 1. CONTACT RESISTANCE MEASUREMENT