

PRODUCT SPECIFICATION FOR TOP ENTRY MODULAR JACKS

1.0 SCOPE

This specification covers the performance requirements of the MOLEX Top Entry Modular Telephone Jack. Where applicable, tests are in accordance with, or in Excess of, all the requirements specified in REA Bulletin 345-81, PE-76- specification for Modular Telephone set. Other applicable documents are FFC rules and regulations part 68: Connection of terminal equipment to the telephone network.

2.0 PRODUCT DESCRIPTION

2.1 Product Name and Part Number

MOLEX Top Entry Modular Jacks provide a means of accepting the modular plugs according to FFC Part 68. These modular jacks are intended for use with PC Boards 1.57mm (0.62") thick.

Both Jacks are available in 8, 6 or 4 circuit sizes, standard or SMT version. The 6 circuit size can be loaded with either 6 or 4 contacts.

2.2 Materials, Plating and Markings

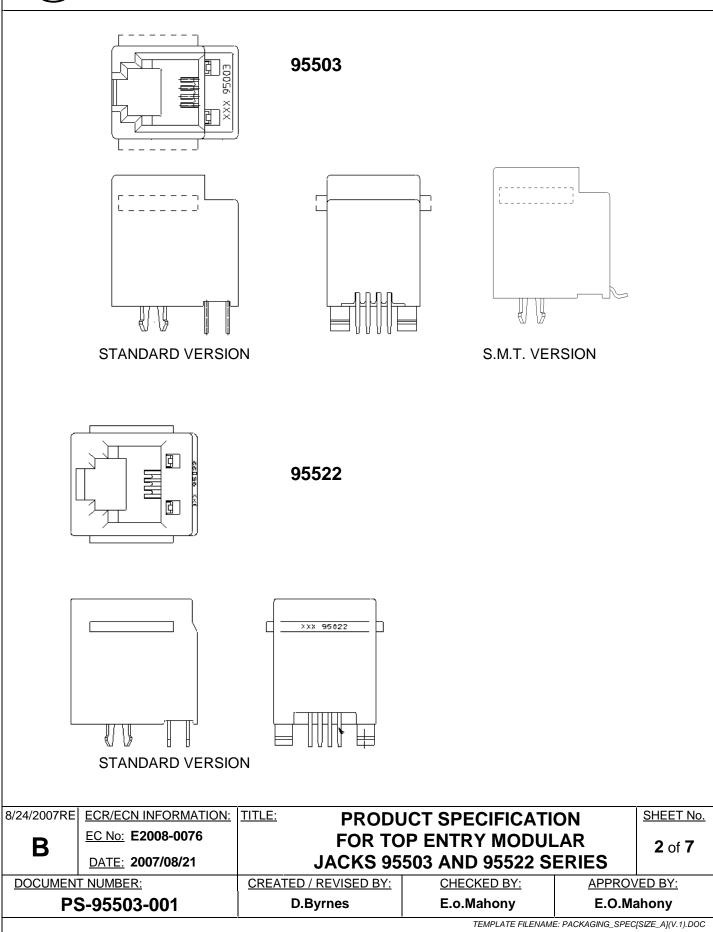
See the appropriate sales drawings for information on materials, platings and markings.

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS:

See the sales drawings and the other sections of this specification for the necessary referenced documents and specifications.

8/24/2007RE	ECR/ECN INFORMATION:	TITLE: PRODU	JCT SPECIFICATI	ON	SHEET No.
В	EC No: E2008-0076	FOR TO	P ENTRY MODUL	AR	1 of 7
	DATE: 2007/08/21	JACKS 95	503 AND 95522 S	ERIES	
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	<u>APPROV</u>	/ED BY:
PS-95503-001		D.Byrnes E.o.Mahony E.O.Mahony		ahony	
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4.0 RATINGS:

4.1 Voltage : 125 V.D.C.

4.2 Current : 1.5 Amp

4.3 Temperature :

Operating :	-40°C to +80°C
Non operating :	-40°C to +80°C

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5.0 PERFORMANCE

5.1 Electrical Performance

ITEM	TEST CONDITION	REQUIREMENT
Contact Resistance	Test at 100mA max current, 50 mV max Open circuit voltage (see pg 7/7).	Initial 20 milli Ω max Final 20 milli Ω max
Dielectric	Per MIL-STD-202 E strength Method 301.	1000 Vac r.m.s. 1 minute hold.
Insulation Resistance.	Per MIL-STD-202 E Method 302.	500 Mega Ω 500 V a.c.

5.2 MECHANICAL

ITEM DURABILITY N	TEST CONDITIO fating and unmating cyc cycles/minute ma	cles at 20 1000 x Contact	REQUIREMENT 1000 cycles meets Contact Resistance Test check every 1000 cycles		
LIFE	Test after Temp/Humidity	cycling 200 cyc	200 cycles meets contact resistance test.		
VIBRATION 5	5-55Hz in 60 sec cycles for 2 hours on each axis per MIL-STD-202, method 201 Meets contact resistance test. Meets contact resistance test. Meets contact resistance test. Meets contact resistance test. Shall remain mated and show no sign of damag		and		
	PER IEC 512-16 Test 12A Test TA Method 1 Solder Bath 260+0/- 5°C Ir Time 2,0 +/- 0.5 s	be cove nmersion and bri Some acce	ped surface s ered with a sm ght solder coa imperfections ptable but NC trated in the s area.	nooth ating. are DT	
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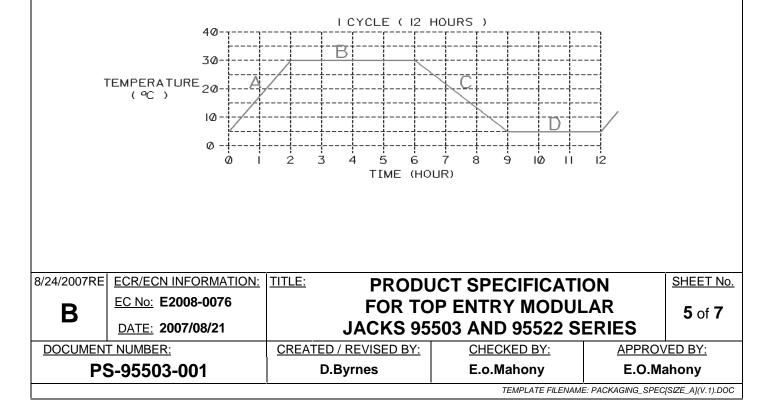


5.3 Environmental

ITEM	TEST CONDITION	REQUIREMENT
TEMPERATURE HUMIDITY	Per Para 4.22 of REA PE-76	Shall meet
CYCLING	see 3.4.1	Insulation
		Resistance
		Dielectric Strength
		and contact
		Resistance tests.

5.4 Environmental Performance

ITEM	TEST CON	IDITION	REQUIREMENT
Humidity	Mate connectors	•	Appearance:
(Cyclic)	10 cycles at 90 to		No damage
	humidity with a tra		Dielectric withstanding voltage: 500 Vac rms,
		hours when increasing and of 3	
	hours when dee	hours when decreasing the	
	•	temperature.	
	Temperature	Duration	terminals applied for 5
	+5°C	3 hours	seconds.
	+30°C	4 hours	





5.4 TEST SEQUENCE

	TEST GROUP		
	I	I	II
INSPECTION OF PRODUCT	1	1	1
CONTACT RESISTANCE	6	2.4	2.4
DIELECTRIC STRENGTH	3		
INSULATION RESISTANCE	4		
DURABILITY		3	
LIFE	5		
VIBRATION			3
TEMPERATURE/HUMIDITY CYCLING	2		

NB: NUMBERS DENOTE THE ORDER IN WHICH THE TESTS ARE PERFORMED.

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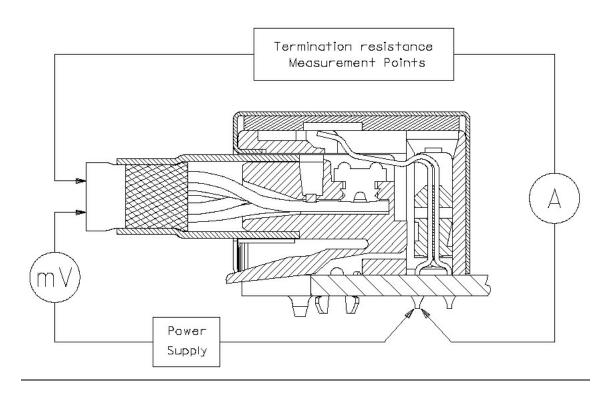


6.0 PACKAGING

Parts should be packaged to protect against damage during handling, transit and storage. (Refer to sales drawings)

7.0 GAGES AND FIXTURE

Termination Resistance Measurement Points



System resistance equals millivolt drop (mV) divided by test current (A) (Conductor resistance will be deducted from measurement).

8.0 QUALITY ASSURANCE PROVISIONS

The applicable Molex inspection plan specifies the sampling acceptable quality level to be used. Dimensional and functional requirements shall be in accordance with applicable product drawings and this specification.

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