PRODUCT SPECIFICATION FOR RIGHT ANGLE LOW PROFILE MODULAR JACKS

1.0 SCOPE

This specification covers the performance requirements of the MOLEX Right Angle Low Profile 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 Right Angle Low Profile 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.

The Jacks are available in 8, 6 or 4 circuit sizes, standard 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.

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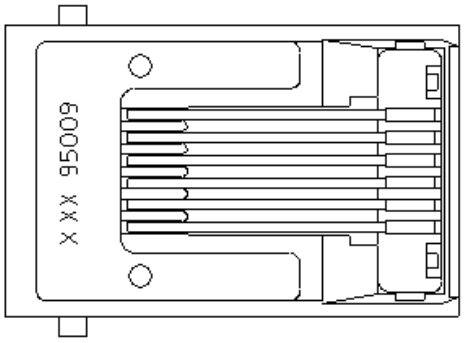
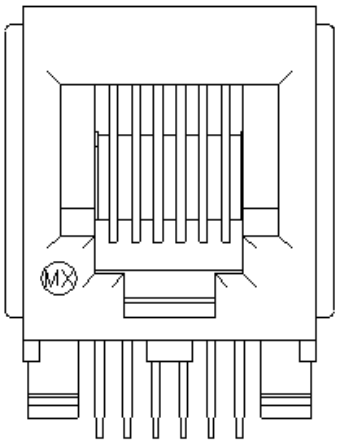
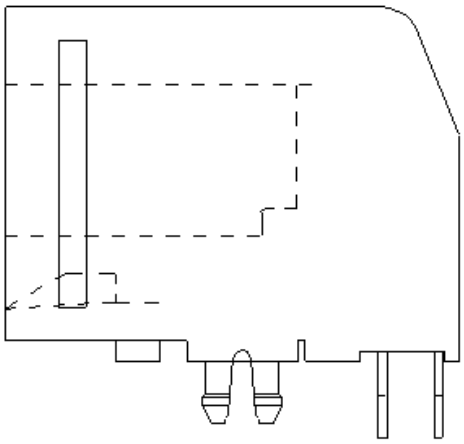






STANDARD VERSION

4.0 RATINGS:

4.1 Voltage : 125 V.D.C.

4.2 Current : 1.5 Amp

4.3 Temperature :

Operating : -40℃ to +80℃
Non- Operating: -40℃ to +80℃

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

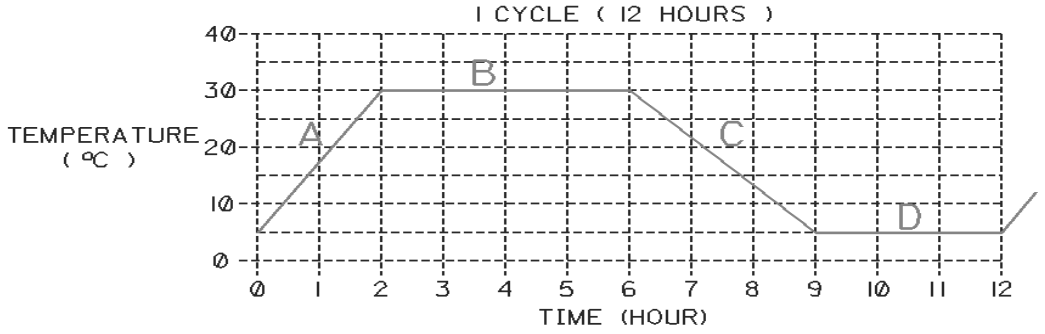
ITEM	TEST CONDITION	REQUIREMENT
DURABILITY	Mating and unmating cycles at 20 cycles/minute max	1000 cycles meets Contact Resistance Test check every 1000 cycles
LIFE	Test after Temp/Humidity cycling	200 cycles meets contact resistance test.
VIBRATION	5-55Hz in 60 sec cycles for 2 hours on each axis per MIL-STD-202, method 201	Meets contact resistance test, Shall remain mated and show no sign of damage.
SOLDERABILITY	PER IEC 512-16 Test 12A 168-2-20 Test TA Method 1 Solder Bath 235+/- 5℃ Immersion Time 2,0 +/- 0.5 s	The Dipped surface shall be covered with a smooth and bright solder coating. Some imperfections are acceptable but NOT concentrated in the same area.

5.3 Environmental

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

5.4 Environmental Performance

ITEM	TEST CONDITION	REQUIREMENT
Humidity (Cyclic)	Mate connectors exposed for 10 cycles at 90 to 95% relative humidity with a trasition time of 2 hours when increasing and of 3 hours when decreasing the temperature. Temperature Duration +5℃ 3 hours +30℃ 4 hours	Appearance: No damage Dielectric withstanding voltage: 500 Vac rms, 60 Hz across any combination of terminals applied for 5 seconds.



5.4 TEST SEQUENCE

	TEST GROUP		
	I	II	III
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		

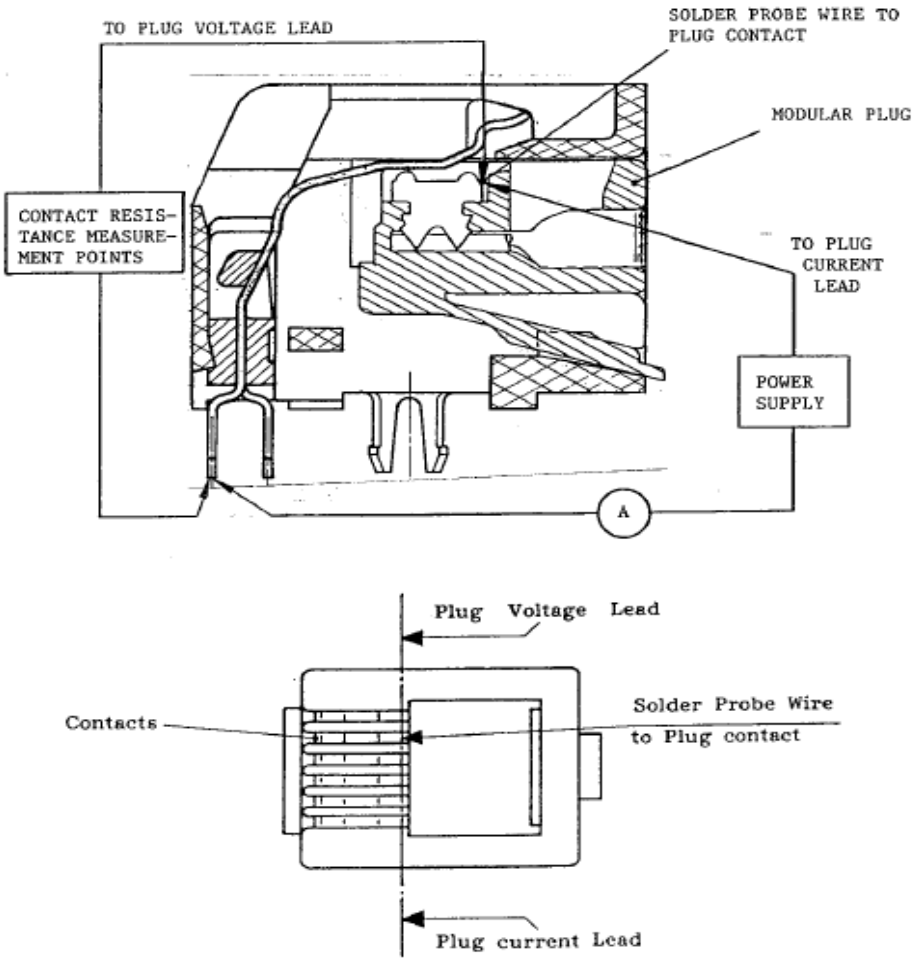
NB: NUMBERS DENOTE THE ORDER IN WHICH THE TESTS ARE PERFORMED.

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



CONTACT 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.