

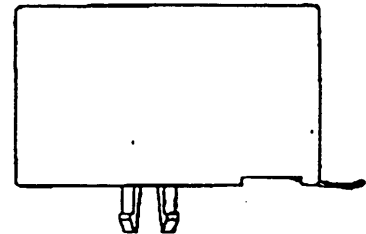
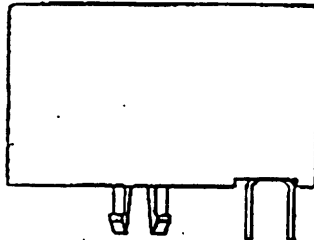
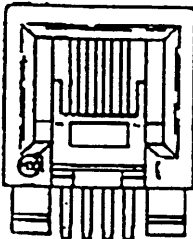
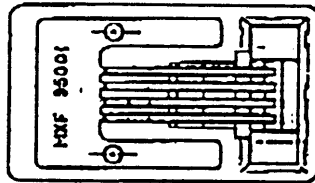
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RIGHT ANGLE LOW PROFILE MODULAR JACK
 PRODUCT SPECIFICATION 95001 SERIES

473-273
 473-285
 473-297

1 SCOPE

This specification covers the performance requirements of the Molex Right Angle Low Profile Modular Telephone Jacks. 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 FCC rules and regulations part 68 : Connection of terminal equipment to the telephone network.



STANDARD VERSION

S.M.T. VERSION

				molex®		molex europe	
				DR 25/02/87 C.B.	NO PS -95001-E	REV	
C	ECN F 20223		3/92	CHK <i>AD</i>	RIGHT ANGLE LOW PROFILE MODULAR JACK PRODUCT SPEC- IFICATION 95001 SERIES		
B	ECN F 90012		6/89	NAME			
A	ECN F 90010		5/89				
I	ERO MXF 035		6/3/87				
LTR	REVISION RECORD	APP	DATE	ORIG. OFFICE		MXF	
						SHT 1 OF 8	

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2 PRODUCT DESCRIPTION

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 1.57 mm (.062") thick.

Both Jacks are available in 8, 6 or 4 circuit sizes, standard or SMT version.

The 8 circuit size can be loaded with either 8, 6 or 4 contacts/ The 6 circuit size can be loaded with either 6 or 4 contacts.

3 REQUIREMENT

3-1 Design and Construction

Connectors shall be of the design, construction and physical dimension specified in the application drawings.

3-2 Materials

JACK HOUSING - Through hole version :
 Fiber glass filled polyester UL 94 V-0
 Colour black
 - Surface mounting version :
 Fiber glass filled polyamide 6/4 UL 94
 V-0, Colour grey

TERMINAL Phosphor bronze
 Selective gold plated in contact area,
 Selective tin/lead plated on the solder tails

3-3 Ratings

Current / voltage 1.5 ampere max/125 v.d.c
 Operating temperature - 40°C to + 80°C

3-4 Test requirements and procedures

Connector assemblies shall be designed to meet the electrical, mechanical and environmental requirements as specified in Table 1.



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TABLE 1

TEST	REQUIREMENTS	PROCEDURES
Inspection of product	Meets requirements of Molex product drawings	Visual and dimensional checks per relevant Molex drawings
ELECTRICAL		
Contact Resistance	Initial 20 milli Ω max Final 20 milli Ω max	Test at 100 mA max current, 50 mV max Open circuit voltage (see page 8/8)
Dielectric	1000 Vac r.m.s. 1 minute hold	Per MIL-STD-202 E strength Method 301
Insulation Resistance	500 megohms 500 V a.c.	Per MIL-STD-202E Method 302


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3.4 CONTINUED

TEST	REQUIREMENT	PROCEDURE
MECHANICAL		
DURABILITY	500 CYCLES MEETS CONTACT RESISTANCE TEST CHECK EVERY 100 CYCLES	MATING AND UNMATING CYCLES AT 20 CYCLES/MINUTE MAX
LIFE	200 CYCLES MEETS CONTACT RESISTANCE TEST	TEST AFTER TEMP/HUMIDITY CYCLING
VIBRATION	MEETS CONTACT RESISTANCE TEST SHALL REMAIN MATED AND SHOW NO SIGNS OF DAMAGE	5-55 Hz IN 60 SEC CYCLES FOR 2 HOURS ON EACH AXIS PER MIL-STD-202, METHOD 201
SOLDERABILITY	THE DIPPED SUR- FACE SHALL BE COVERED WITH A SMOOTH AND BRIGHT SOLDER COATING. SOME IMPER- FECTIONS ARE ACCEPTABLE BUT NOT CONCENTRATED IN THE SAME AREA	PER IEC 512-16 TEST 12 A 168-2-20 TEST TA METHOD 1) SOLDER BATH 235 +/- 5°C IMMERSION TIME 2,0 +/- 0,5 S
ENVIRONMENTAL		
TEMPERATURE HUMIDITY CYCLING	SHALL MEET INSUL- ATION RESISTANCE DIELECTRIC STRENGTH AND CONTACT RESIS- TANCE TESTS	PER PARA 4.22 OF REA PE76 SEE 3.4.1

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3.4.1 Temperature - Humidity Test

The assembled hardware shall be placed at 95 (+0, -5) percent relative humidity at room temperature. Then, whilst the relative humidity is held at or returned to 95 percent, the temperature shall be reduced to 5° C (41° F) a maximum rate of 15° C (59° F) per hour. The temperature shall then be cycled linearly for ten cycles as specified below with a relative humidity of 95 percent.

STEP	TEMPERATURE °C			TIME FOR CHANGES	TIME FOR HOLD
	FROM	TO	HOLD		
A	5	30	-	2 HOURS	-
B	-	-	30	-	4 HOURS
C	30	5	-	3 HOURS	-
D	-	-	5	-	3 HOURS

3.4.2 Dielectric Strength

During steps B and D of the tenth cycle of the humidity test, jacks and plugs (tested separately) shall withstand 500 Vac rms, 60 Hz across any combination of terminals applied for 5 seconds. (Removal from the test chamber is permitted for this test).


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2.5 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.

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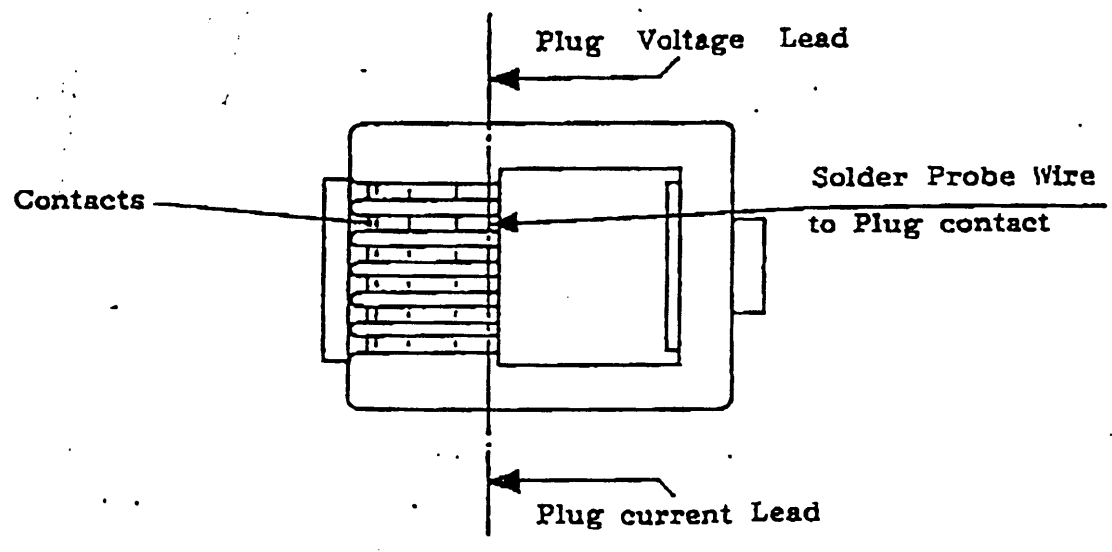
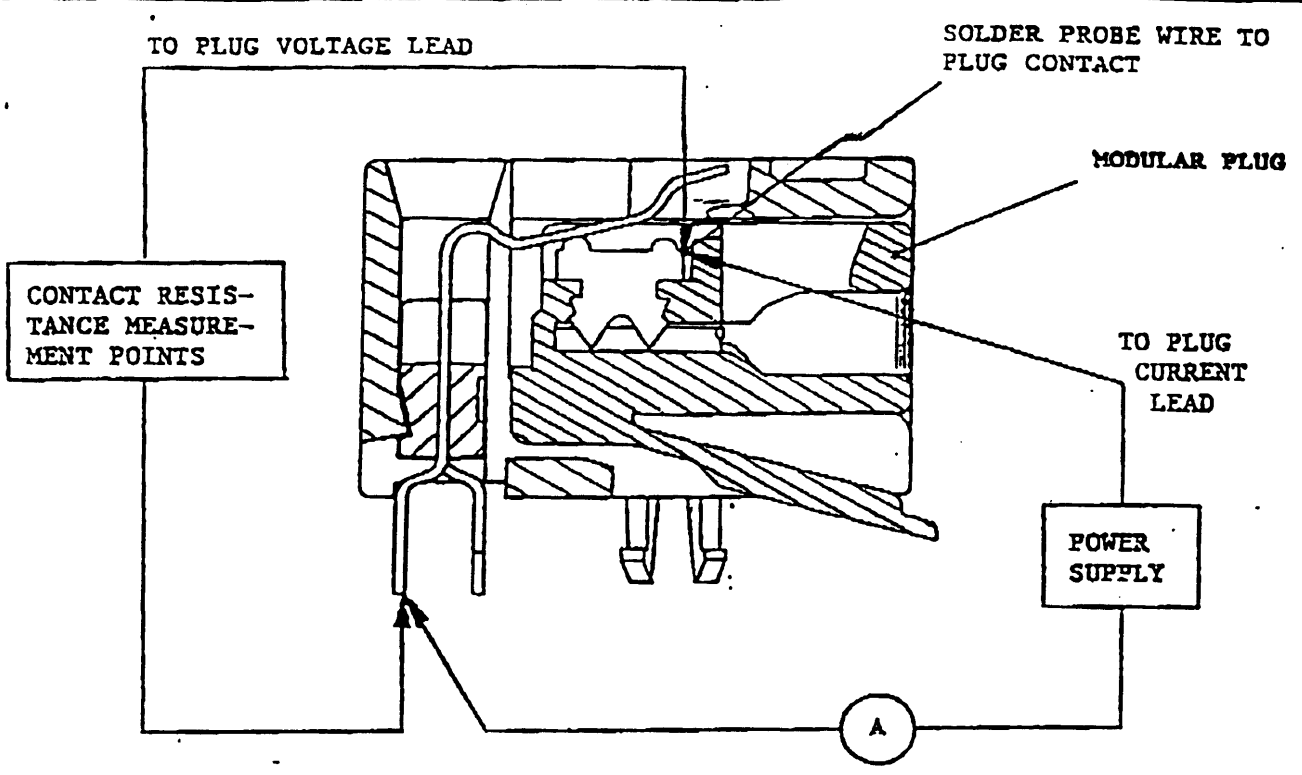
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4 QUALITY ASSURANCE PROVISIONS


The applicable Molex inspection plan will specify 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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CONTACT RESISTANCE MEASUREMENT POINTS

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