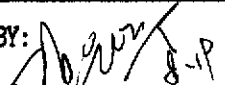
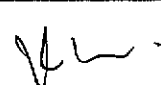


MOLEX

PRODUCT SPECIFICATION

MOLEX KOREA

제 목 : 7.92 Pitch Wire to Board conn.
(TITLE)

A	NEW RELEASED	H.S.SHIN	94.8.18
REV	REVISION RECORD	BY	DATE
PRODUCT SPECIFICATION. : 7.92 Pitch Wire to Board conn. (50217, 35156, 35328)		SHEET NO. 1 of 7	REV. A
WRITTEN BY: H.S.SHIN	CHECKED BY: 	APPROVED BY: 	DATE: 94.08.18

THIS PRODUCT SPECIFICATION CONTAINS INFORMATION PROPRIETARY TO MOLEX AND SHOULD NOT BE USED WITHOUT PRIOR WRITTEN PERMISSION.

[1. 적용범위 (SCOPE)]

7.92mm PITCH WIRE TO BOARD CONNECTOR에 대하여 규정한다.
(THIS SPECIFICATION COVERS THE 7.92 PITCH WIRE TO BOARD CONNECTOR SERIES.)

[2. 제품명 및 제품번호 (PRODUCT NAME AND PART NUMBER)]

제품명 (PRODUCT NAME)	제품번호 (PART NUMBER)
TERMINAL	50217-****
HOUSING	35156-**00
WAFER ASSEMBLY (ST.)	35328-****

** : 도면참조 (REFER TO THE DRAWING)

[3. 정격 및 사용 WIRE (RATINGS AND APPLICABLE WIRES)]

항 목 (ITEM)	규 격 (STANDARD)	
최대허용전압 [RATED VOLTAGE (MAX.)]	250V	
최대허용 전류 및 사용 WIRE (RATED CURRENT (MAX.) AND APPLICABLE WIRES)	AWG#18	7 A
	AWG#20	6 A
	AWG#22	5 A
	AWG#24	4 A
사용온도범위 [AMBIENT TEMPERATURE RANGE]	-40℃ ~ +105℃ ★	

[AC(rms)/DC]
절연피복외경
[(INSULATION O.D. :
: 최대 3.0mm
(3.0mm MAX.)]

★ : 봉전에 의한 온도상승분 포함.
(INCLUDING TERMINAL TEMPERATURE RISE.)

[4. 성능 (PERFORMANCE)]

4.1 전기적 (ELECTRICAL PERFORMANCE)

항 목 (ITEM)	조 건 (TEST CONDITION)	규 격 (REQUIREMENT)	
4.1.1	접촉저항	결합된 CONNECTOR를 개방전압 20mV 이하, 단락전류 10mA에서 측정한다. (JIS C5402 5.4)	10mΩ MAX.
	CONTACT RESISTANCE	MATED CONNECTORS, MEASURE BY DRY CIRCUIT, 20mV MAX. 10mA. (BASED UPON JIS C5402 5.4)	
4.1.2	절연저항	결합된 CONNECTOR를 인접 TERMINAL 사이 및 TERMINAL과 GROUND 간에 DC 500V를 인가하여 측정한다. (JIS C5402/MIL-STD-202 시험법 302 조건)	1000MΩ MIN.
	INSULATION RESISTANCE	MATED CONNECTORS, APPLY 500V DC BETWEEN ADJACENT TERMINAL OR GROUND. (BASED UPON JIS C5402 5.2/MIL-STD-202 METHOD 302 COND. B)	

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항 목 (ITEM)		조 건 (TEST CONDITION)	규 격 (REQUIREMENT)
4.1.3	내전압	결합된 CONNECTOR를 인접 TERMINAL 및 TERMINAL과 GROUND 간에 AC(rms) 1500V (실효치)를 1분간 인가한다. (JIS C5402 5.1/MIL-STD-202 시험법 301 조건.)	이상 없을것.
	DIELECTRIC STRENGTH	MATED CONNECTORS, APPLY 1500V AC FOR 1 MINUTE BETWEEN ADJACENT TERMINAL OR GROUND. (BASED UPON JIS C5402 5.1/MIL-STD-202 METHOD 301)	NO BREAKDOWN
4.1.4	압착상태의 접촉저항	TERMINAL을 WIRE 사용하여 압착한 상태에서 개방전압 20mV 이하, 단락전류 10mA에서 측정한다.	5mΩ MAX.
	CONTACT RESISTANCE ON CRIMPED PORTION	CRIMP THE APPLICABLE WIRE ON TO THE TERMINAL, MEASURE BY DRY CIRCUIT, 20mV MAX., 10mA.	

4.2 기계적 성능 (MECHANICAL PERFORMANCE:)

항 목 (ITEM)		조 건 (TEST CONDITION)	규 격 (REQUIREMENT)	
4.2.1	삽입력 및 발거력	매분 25±3mm의 속도로 삽, 발거력을 한다.	제 6항 참조	
	INSERTION AND WITHDRAWAL FORCE	INSERT AND WITHDRAW CONNECTORS AT THE SPEED RATE OF 25±3mm/MINUTE.	REFER TO PARAGRAPH 6	
4.2.2	단자고착력	압착된 TERMINAL을 매분 25±3mm의 속도로 WIRE를 축방향으로 당긴다. (JIS C5402 6.8)	AWG #18	9.0kgf/MIN.
	CRIMPING PULL OUT FORCE	FIX THE CRIMPED TERMINAL, APPLY AXIAL PULL OUT FORCE ON THE WIRE AT THE SPEED RATE OF 25±3mm/MINUTE. (BASED UPON JIS C5402 6.8)	AWG #20	6.0kgf/MIN.
4.2.3	TERMINAL 삽입력	HOUSING에 압착된 TERMINAL을 삽입한다.	AWG #22	4.0kgf/MIN.
	TERMINAL INSERTION FORCE	INSERT THE CRIMPED TERMINAL INTO THE HOUSING.	AWG #24	3.0kgf/MIN.
			1.5kgf MAX.	

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항 목 (ITEM)		조 건 (TEST CONDITION)	규 격 (REQUIREMENT)	
4.2.4	TERMINAL 보지력	HOUSING과 TERMINAL을 조립한 상태에서 매분 25±3mm의 속도로 축방향으로 당긴다.	2.5kgf MIN.	
	TERMINAL/ HOUSING RETENTION FORCE	APPLY AXIAL PULL OUT FORCE AT THE SPEED RATE OF 25±3mm/MINUTE ON TERMINAL ASSEMBLED IN THE HOUSING.		
4.2.5	PIN 보지력	매분 25±3mm의 속도로 PIN을 축방향으로 누른다.	1.0kgf MIN.	
	PIN RETENTION FORCE	APPLY AXIAL PUSH FORCE AT THE SPEED RATE OF 25±3mm/MINUTE.		
4.2.6	CONNECTOR 결합력	결합된 CONNECTOR를 매분 25±3mm의 속도로 축방향으로 당긴다.	2,3 CKT	2kgf MIN.
	LOCK STRENGTH	MATED CONNECTORS, APPLY AXIAL PULL OUT FORCE AT THE SPEED RATE OF 25±3mm/MINUTE	4~6 CKT	6kgf MIN.

4.3 환경적 성능과 기타성능 (ENVIRONMENTAL PERFORMANCE AND OTHERS)

항 목 (ITEM)		조 건 (TEST CONDITION)	규 격 (REQUIREMENT)	
4.3.1	반복 삽탈거력	1분간 10회 이하의 속도로 삽, 발거를 30회 반복한다.	접촉저항	20mΩ MAX.
	REPEATED INSERTION/ WITHDRAWAL	WHEN MATED UP TO 30 CYCLES REPEATEDLY BY THE RATE OF 10 CYCLES PER MINUTE.	CONTACT RESISTANCE	
4.3.2	온도상승	결합된 CONNECTOR를 최대허용전류를 통전하고 CONNECTOR의 온도상승분을 측정한다. (UL 498)	30℃ MAX.	
	TEMPERATURE RISE	CARRYING RATED CURRENT LOAD. (BASED UPON UL 498)		
4.3.3	내진동성	진 폭 : 1.5mm P-P 진동수 : 10-55-10 Hz/분 진동시간 : X.Y.Z 축 각 2시간 (MIL-STD-202 시험법 201A)	외 관	이상 없을것
			접촉저항	20mΩ MAX.
			순가단락	1u sec. MAX.
	VIBRATION	AMPLITUDE : 1.5mm P-P. SWEEP TIME : 10-55-10 Hz IN 1 MINUTE. DURATION : 2 HOURS IN EACH X.Y.Z AXES. (BASED UPON MIL-STD-202 METHOD 201A)	APPEARANCE	NO DAMAGE
			CONTACT RESISTANCE	20mΩ MAX.
		DIS- CONTINUITY	1u sec. MAX.	

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항 목 (ITEM)		조 건 (TEST CONDITION)	규 격 (REQUIREMENT)	
4.3.4	내충격성	50G의 충격을 각 X.Y.Z 축에 3회 가한다. (JIS C0041/MIL-STD-202 시험법 213B 조건 A.)	외 관	이상 없을것
			접촉저항	20mΩ MAX.
	SHOCK	50G, 3 STROKES IN EACH X.Y.Z AXES. (BASED UPON JIS C0041/MIL-STD-202 METHOD 213B COND.A)	APPEARANCE	NO DAMAGE
			CONTACT RESISTANCE	20mΩ MAX.
4.3.5	내열성	105±2℃, 96 HOURS. (BASED UPON JIS C0021/MIL-STD-202 METHOD 108A COND.A)	외 관	이상 없을것
			접촉저항	20mΩ MAX.
4.3.6	내한성	-40±3℃, 96 HOURS. (BASED UPON JIS C0020)	외 관	이상 없을것
			접촉저항	20mΩ MAX.
4.3.7	내습성	온 도 : 60±2℃ 상대습도 : 90~95% 지속시간 : 96 HOURS. (JIS C0022/MIL-STD-202 시험법 103A 조건 B.)	외 관	이상 없을것
			접촉저항	20mΩ MAX.
	HUMIDITY	TEMPERATURE : 60±2℃ RELATIVE HUMIDITY : 90~95% DURATION : 96 HOURS. (BASED UPON JIS C0022/MIL-STD-202 METHOD 103B COND.B)	내전압	4.1.3 만족할것.
			절연저항	100MΩ MIN.
			APPEARANCE	NO DAMAGE
			CONTACT RESISTANCE	20mΩ MAX.
			DIELECTRIC STRENGTH	MUST MEET 4.1.3
			INSULATION RESISTANCE	100MΩ MIN.

PRODUCT SPECIFICATION. : 7. 92 PITCH WIRE TO BOARD
CONN. (5 0 2 1 7 / 3 5 1 5 6 / 3 5 3 2 8)

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항 목 (ITEM)		조 건 (TEST CONDITION)	규 격 (REQUIREMENT)	
4.3.8	온도싸이클	5 CYCLES : a) -55℃ 30분 b) +105℃ 30분 (JIS C0025)	외 관	이상 없을것
	TEMPERATURE CYCLING	5 CYCLES : a) -55℃ 30 MINUTES b) +105℃ 30 MINUTES (BASED UPON JIS C0025)	접촉저항	20mΩ MAX.
4.3.9	염수분무	결합된 CONNECTOR를 35±2℃에서 5±1% 중량비의 염수를 48±4시간 분무하고 시험후 상온에서 물로 씻은후 실온에서 건조시킨다. (JIS C5028/MIL-STD-202 시험법 101D 조건B.)	외 관	이상 없을것
	SALT SPRAY	48±4 HOURS EXPOSURE TO A SALT SPRAY FORM THE 5±1% SOLUTION AT 35±2℃. (BASED UPON JIS C5028/MIL-STD-202 METHOD 101D COND.B)	접촉저항	20mΩ MAX.
4.3.10	아황산가스	결합된 CONNECTOR를 40±2℃의 온도에서 50±5PPM의 아황산가스에 24시간 방치한다.	외 관	이상 없을것
	SO ₂ GAS	24 HOURS EXPOSURE TO 50±5PPM. SO ₂ GAS AT 40±2℃.	접촉저항	20mΩ MAX.
4.3.11	납땜성	납땜시간 : 3±0.5 sec. 납땜온도 : 230±5℃	외 관	이상 없을것
	SOLDERABILITY	SOLDERING TIME : 3±0.5 SEC. SOLDER TEMPERATURE : 230±5℃	접촉저항	20mΩ MAX.
4.3.12	납땜 내열성	납땜시간 : 5±0.5 SEC. 납땜온도 : 260±5℃	외 관	이상 없을것
	RESISTANCE TO SOLDERING HEAT	SOLDERING TIME : 5±0.5 SEC. SOLDER TEMPERATURE : 260±5℃	외 관	이상 없을것
			침적면적 75% 이상	
			75% OF IMMERSED AREA MUST SHOW NO VOIDS, PIN HOLES.	
			이상 없을것	
			NO DAMAGE	

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[5. 외관형상 치수 및 재질 (PRODUCT SHAPE, DIMENSIONS AND MATERIALS)]

도면 참조 (REFER TO THE DRAWING)

[6. 삽입력 및 발거력 (INSERTION/WITHDRAWAL FORCE)]

[UNIT : kgf]

극수 (CKT SIZE)	삽입력 (최대) [INSERTION (MAX.)]			발거력 (최소) [WITHDRAWAL (MIN.)]		
	1 회 (INITIAL)	6 회 (6TH)	30 회 (30TH)	1 회 (INITIAL)	6 회 (6TH)	30 회 (30TH)
2	2.00	1.90	1.90	0.12	0.10	0.10
3	3.00	2.85	2.85	0.18	0.15	0.15
4	4.00	3.80	3.80	0.24	0.20	0.20
5	5.00	4.75	4.75	0.30	0.25	0.25
6	6.00	5.70	5.70	0.36	0.30	0.30

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