



PRODUCT SPECIFICATION

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1.SCOPE:

This specification covers the requirements for product performance of 2.00mm pitch board-in connector series.

2.CONSTRUCTION · DIMENSIONS · MATERIAL & PLATING:

See the attached drawings

3.RATINGS & APPLICABLE WIRES:

Item	Standard		
Rated Voltage (max.)	250V AC, DC		
	AWG #24	2A AC, DC	Insulation O.D.
Rated Current (max.)	AWG #26	2A AC, DC	1.30mm (max.)
and Applicable Wires	AWG #28	1A AC, DC	
	AWG #30	1A AC, DC	
Ambient Temperature Range	-25°C ~ +85°C*		

^{*:} Including terminal temperature rise

4.PERFORMANCE:

4-1.ELECTRICAL PERFORMANCE

Test Description		Procedure	Requirement	
4-1-1	Insulation	Apply 500V DC between adjacent terminal or ground		
	Resistance	(Based upon JIS C5402 5.2/MIL-STD-202	$1000 \mathrm{M}\Omega$ min.	
		Method 302 Cond. B)		
4-1-2	Dielectric	Apply 800V AC (rms) for 1 minute between adjacent		
	Withstanding	terminal or ground. (Based upon JIS C5402 5.1/	No Breakdown	
	Voltage	MIL-STD-202 Method 301)		
4-1-3	Contact	Crimp the applicable wire on to the terminal, measure		
	Resistance	by dry circuit, 20mV max., 10mA.	5mΩ max	
	on Crimped		JIIISZ IIIAX.	
	Portion			

			APPROVED	CHECKED	WRITTEN
			BY	BY	BY
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4-2.MECHANICAL PERFORMANCE

Test Description		Procedure		Requirement
4-2-1	Insertion & Withdrawal	Insert and withdraw at the speed rate of 25 ± 3 mm/minute to P.C.Board.	Insertion	1.0kgf max.
	Force to P.C.B.	(Per single circuit, Initial)	Withdrawal	0.1kgf min.
		Fix the crimped terminal, apply axial pull out force on the wire at the speed	AWG #24	3.0kgf min.
4-2-2	Crimping Pull Out	rate of 25 ± 3mm/minute. (Based upon JIS C5402 6.8)	AWG #26	2.0kgf min.
	Force		AWG #28	1.0kgf min.
			AWG #30	0.8kgf min.
4-2-3	Terminal Insertion Force	Insert the crimped terminal into the hou	0.5kgf max.	
4-2-4	Terminal/ Housing Retention Force	Apply axial pull out force at the speed ra 25 ± 3 mm/minute on the terminal assembousing.	1.0kgf min.	
		Amplitude: 1.5mm P-P	Appearance	No Damage
4-2-5	Vibration	Sweep time: 10-55-10 Hz in 1 minute Duration: 2 hours in each X.Y.Z. axes (Based upon MIL-STD-202	Contact Resistance on Crimped Portion	10mΩ max.
		Method 201A)	Discontinuity	1μsec. max.
		490m/s ² {50G}, 3 strokes in each	Appearance	No Damage
4-2-6	Physical Shock	X.Y.Z. axes. (Based upon JIS C0041/MIL-STD-202 Method 213B Cond. A)	Contact Resistance on Crimped Portion	10mΩ max.
			Discontinuity	1μsec. max.





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4-3.ENVIRONMENTAL PERFORMANCE AND OTHERS

Test Description		Procedure	Procedure	
4-3-1	Temperature Rise	Carrying rated current load. (Based upon UL 498)	Temperature Rise	30°C max.
		$85 \pm 2^{\circ}$ C, 96 hours	Appearance	No Damage
4-3-2	Heat Resistance	(Based upon JIS C0021/MIL-STD-202 Method 108A Cond. A)	Contact Resistance on Crimped Portion	10mΩ max.
		-25 ± 3 °C, 96 hours	Appearance	No Damage
4-3-3	Cold Resistance	(Based upon JIS C0020)	Contact Resistance on Crimped Portion	10mΩ max.
		Temperature: 40 ± 2 °C	Appearance	No Damage
4-3-4	Humidity	Relative Humidity: 90 ~ 95% Duration: 96 hours (Based upon JIS C0022/MIL-STD-202 Method 103B Cond. B)	Contact Resistance on Crimped Portion	10m $Ω$ max.
			Insulation Resistance	100M $Ω$ min.
			Dielectric Withstanding Voltage	Must meet 4-1-2
		5 cycles of:	Appearance	No Damage
4-3-5	Temperature Cycling	a) - 55°C 30 minutes b) +85°C 30 minutes (Based upon JIS C0025)	Contact Resistance on Crimped Portion	10mΩ max.
		24 ± 4 hours exposure to a salt spray	Appearance	No Damage
4-3-6	Salt Spray	from the $5 \pm 1\%$ solution at $35 \pm 2^{\circ}$ C. (Based upon JIS C0023/MIL-STD-202 Method 101D Cond. B)	Contact Resistance on Crimped Portion	10m $Ω$ max.
	_	24 hours exposure to 50 ± 5 ppm.	Appearance	No Damage
4-3-7	SO ₂ Gas	SO_2 gas at 40 ± 2 °C.	Contact Resistance on Crimped Portion	10mΩ max.





http://www.uniconn.cn/html/Page/B2011.html
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Test Description		Procedure		Requirement
		40 minutes exposure to NH ₃ gas	Appearance	No Damage
		evaporating from 28% Ammonia	Contact	
4-3-8	NH ₃ Gas	solution.	Resistance	$10 \text{m}\Omega$ max.
			on Crimped	TOHISZ IIIGA.
			Portion	
		Soldering Time: 5 ± 0.5 sec.	Solder	95% of immersed
4-3-9	Solderability	Solder Temperature: 245 ± 5 °C	Wetting	area must show no
				voids, pin holes
		Solder pot method		
4-3-10	Resistance	Soldering Time: 10 ± 0.5 sec.		
	to Soldering	Solder Temperature: 260 ± 5 °C	Appearance	No Damage
	Heat	Solder iron method	Appearance	
		Soldering Time: 5 ± 0.5 sec.		
		Solder Temperature: 370°C ~ 400°C		