Young Yak Enterprise Co., Ltd.
Taiwan
7F-12, No.14, Lane 609, Sec.5 Chung Hsin Rd
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1. Scope

This specification covers the 3.00mm pitch Wire to Board Connector series.

2. Product & Part Number

Product Name	Product Number
Housing	YY-5750-H
Header	YY-5950-W**R**-** & YY-5950-W**S**-**
Terminal	YY-5750-T

3. Material

Product Name	Material
Header	Nylon6T UL94-V0 Brass ; Tin-plated

4. Shape, Construction and Dimensions

See attached drawings

YOUNG YAK
2014.10.20
ISSUED

Created	Checked	Approved	Date
Kang	Denise	Jessica	2014/10/20

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5. Electrical Performance

	ITEM	TEST CONDITION	REQUIREMENT
5-1	Rated Voltage (Max.)		250V AC (r.m.s.)/DC
	Rated Current (Max.) And Applicable Wire	AWG #20 wire gage	5A
		AWG #22 wire gage	5A
		AWG #24 wire gage	4A
		AWG #26 wire gage	3A
		AWG #28 wire gage	2A
		AWG #30 wire gage	1A
5-2	Contact Resistance	Mate connectors,measure by dry circuits, 20mV Max. , 100mA (Based upon JIS C5402 5.4)	10mΩ Max.
5-3	Dielectric Strength	Mate connectors,apply 1000V AC for 1 minute between adjacent terminal or ground.(Based upon JIS C5402 5.1/MIL-STD-202 Method 301)	No Breakdown: Current Leakage<5mA
5-4	Insulation Resistance	Mate connectors,apply 500V DC between adjacent terminal or ground.(Based upon JIS C5402 5.2/MIL-STD-202 Method 302 Cond.B)	1000MΩ Min.
5-5	Contact Resistance on Crimped Portion	Crimp the applicable wire on to the terminal,measure by dry circuit,20mV MAX.,100mA.	5mΩ Max.

6. Mechanical Performance

	ITEM	TEST CONDITION	REQUIREMENT	
6-1	Wire size	Specified wire size	Accepts AWG#20~#30	
6-2	Crimping Pull Out Force	Fix the crimped terminal , apply axial pull out force on the wire at the speed rate of 25±6 mm/minute. (Bases upon JIS C5402 6.8)	AWG#20	5.9Kgf Min.
			AWG#22	3.63Kgf Min.
			AWG#24	2.27Kgf Min.
			AWG#26	1.36Kgf Min.
			AWG#28	0.91Kgf Min.
			AWG#30	0.68Kgf Min.

	ITEM	TEST CONDITION	REQUIREMENT
6-3	Terminal / Housing Insertion Force	Insertion speed 25±6 mm/minute into housing	1.5Kgf Max.
6-4	Terminal/Housing Retention Force	Apply axial pull out force at the speed rate of 25±6 mm/minute on the terminal assembled in the housing	2.5Kgf Min
6-5	Insertion Force	Mating speed 25±6 mm/minute	0.8Kgf Max.
6-6	Extraction Force	Disengaging speed 25±6 mm/minute	0.2Kgf Min.
6-7	Repeated Insertion Withdrawal	When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute.	Contact resistance: 20mΩ Max.
6-8	Pin Retention Force	Apply axial push force at the speed rate of 25±6 mm/minute	1.4Kgf Min.

7. Environmental Performance

	ITEM	TEST CONDITION	REQUIREMENT
7-1	Temperature rise	Carrying rated current load. (Based upon UL 498)	30°C Max.
7-2	Vibration	Amplitude: 1.5 mm P-P Sweep time: 10-55-10 Hz/ minute Duration: 2 hours in each X , Y , Z axes (Based upon EIA 364-28,test condition VII)	Appearance: No Damage Discontinuity: 1 micro second Max. Contact Resistance: 20mΩ Max.
7-3	Solder ability	Soldering Time:3±0.5 second Solder Temperature: 230±5°C	75% of immersed area must show no volids,pin holes
7-4	Resistance to Solder Heat	Soldering Time: 5±0.5 second Solder Temperature: 260±5°C	No Damage
7-5	Heat Resistance	105±2°C , 96 hours (Based upon JIS C0021/MIL-STD-202 Method 108A Cond.A)	Appearance: No damage Contact Resistance: 20mΩ Max.

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	ITEM	TEST CONDITION	REQUIREMENT
7-6	Humidity	Temperature: 40±2℃ Relative Humidity: 90-95% Duration: 96 hours (Based upon JIS C0022/MIL-STD-202 Method 103B Cond. B)	Appearance: No damage Contact resistance: 20mΩ Max. Dielectric strength: No breakdown at 500VDC Insulation Resistance: 1000MΩ Min.
7-7	Temperature cycling	5 cycle : (1) -55 °C , 30 min. (2)+105 °C , 30 min. (Based upon JIS C0025)	Appearance: No damage Contact resistance: 20mΩ Max.
7-8	Salt spray	48±4 hours exposure to a salt spray from the 5±1% solution at 35±2°C (Based upon JIS C5028/MIL-STD-202 Method 101D Cond. B)	Appearance: No damage Contact resistance: 20mΩ Max.
7-9	Cold Resistance	-40±3℃,96 hours (Based upon JIS C0020)	Appearance: No damage Contact resistance: 20mΩ Max.
7-10	SO2 gas	24 hours exposure to 50±5 ppm. SO2 gas at 40±3℃	Appearance: No damage Contact resistance: 20mΩ Max.
7-11	Shock	50G,3 strokers in each X.Y.Z. axes. (Based upon JIS C0041 MIL-STD-202 Method 213B Cond. A)	Appearance: No Damage Discontinuity: 1 micro second Max. Contact Resistance: 20mΩ Max.

8. Ambient Temperature Range: -25 to +85°C