

JAE JAPAN AVIATION ELECTRONICS IND., LTD. 21-6, 1-CHOME, DOGENZAKA, SHIBUYA-KU TOKYO, JAPAN	SPECIFICATION TABLE	No. JACS-1493-0-E
		CONNECTOR/SERIES FI SERIES
		APPLICABLE DWG No. SJ030636 SJ030617, 030870, 030619, 030670, etc

STANDARD DATA		REV.	DATE	DESCRIPTION	DRAWN BY	CHK'D BY	January BY
Applicable Connector	FI-WE21P-HF/-WE21S	1	3. JULY. 96	—	K. HISAHATSU	K. Haraki	Mori
Applicable Wire	AWG#28~32 (Note 1)						
Current	1A AC/DC per contact						
Voltage	200V AC/DC per contact						
Operating Temperature	-40°C to +80°C						

REMARK : Unless otherwise specified, place a crimp socket contact in a housing for mating with a pin header.

ITEM	REQUIREMENT	TEST METHOD	REQUIREMENT								
Mechanical	Construction		As specified in the drawing								
	Materials, finishes		As specified in the drawing								
	Connector mating force	Mate the counterpart connector	1.96N (0.2kgf) × n max. n : pin								
	Connector unmating force	Unmate the counterpart connector	0.29N (0.03kgf) × n min. n : pin								
	Crimp strength	Measurement of tensile strength at conductor crimp of socket contact using tensile tester (No crimp at covered part)	<table border="1"> <tr> <td>AWG#</td> <td>28</td> <td>30</td> <td>32</td> </tr> <tr> <td>Spec.N(kgf)MIN.</td> <td>13.7(1.4)</td> <td>9.8(1.0)</td> <td>5.8(0.6)</td> </tr> </table> Note 1) For wires which are not contained here, size specification shall be determined through consultaion with customers.	AWG#	28	30	32	Spec.N(kgf)MIN.	13.7(1.4)	9.8(1.0)	5.8(0.6)
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	Spec.N(kgf)MIN.	13.7(1.4)	9.8(1.0)	5.8(0.6)							
	Contact retention	Measured by the tensile tester	4.9N (0.5kgf) min.								
	Contact durability	Mate and unmate connectors for 50 times	Contact resistance : 80m Ω max.								
	Vibration	Amplitude ±1.5mm, 10~55Hz 3axes 2hours per each	No electrical discontinuities more than 1 micro second during test.								
Shock	MIL-STD-202 METHOD 202, 490m/s ² (50G) 3axes. An appropriate holder may be used for mounting in case of vibration and shock tests.	No mechanical damage during/after test									
Electrical	Voltage proof	Apply specified voltage between adjacent contacts	500VACr.m.s. for 1 minute No damage								
	Insulation resistance	Apply 100VDC between adjacent contacts and measure within one minute	100M Ω min.								
	Contact resistance	To measure with voltage drop method (20mV, 1mA)	40m Ω max.								
Environmental	Resistance to solder heat	260±5°C for 2 minutes	No damage								
	Solderbility-wetting	Dip in Sn/Pb solder, (60/40), 230±5°C for 3±0.5 seconds	Solder was covered with more than 95% area dipped								
	Thermal shock	-55°C~+85°C 5 cycles.	a) Contact resistance : 80m Ω max.								
	Damp heat	Expose at 90~95%RH and 60°C temperature for 96 hours	b) Insulation resistance : 50M Ω min. c) Voltage proof : 250VACr.m.s. for 1 minute								
	Corrosion	Salt splay test : Salt concentration : 5% at 35°C for 48 hours	There shall be no corrosion that will affect performance Contact resistance : 80m Ω max.								