

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	Thorn								
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.															
REQUIREMENT		TEST METHOD		REQUIREMENT											
M e c h a n i c a l	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 apropiate holder may be used for mounting in case of vibration and shock tests.		No mechanical damage during/after test												
E l e c t r i c a l E n v i r o n m e n t a l	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.											
	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. b) Insulation resistance : 50M Ω min. c) Voltage proof : 250VACr.m.s. for 1 minute											
	Damp heat	Expose at 90~95%RH and 60°C temperature for 96 hours													
E n v i r o n m e n t a l	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.											