



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	DATE
Applicable Connector	FI-WE21P-HF/-WE21S	1.3.	JULY. 96		K. HIRAYAMA	M. Haseki	January
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								
Construction			As specified in the drawing								
Materials, finishes			As specified in the drawing								
Connector mating force	Mate the counterpart connector		1.96N(0.2kgf) X n max. n : pin								
Connector unmating force	Unmate the counterpart connector		0.29N(0.03kgf) X 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. No. (G2) (MIN.)</td> <td>13.7(1.4)</td> <td>9.8(1.0)</td> <td>5.8(0.6)</td> </tr> </table> <p>Note 1) For wires which are not contained here, size specification shall be determined through consultation with customers.</p>	AWG#	28	30	32	Spec. No. (G2) (MIN.)	13.7(1.4)	9.8(1.0)	5.8(0.6)
AWG#	28	30	32								
Spec. No. (G2) (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/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								
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								
Solderability-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										
Corrosion	Salt spray test : Salt concentration : 5% at 35°C for 48 hours		There shall be no corrosion that will affect performance Contact resistance : 80m Ω max.								