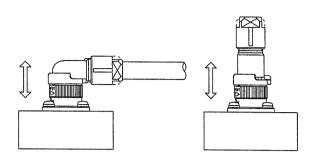
				<del></del>						
							NO. JACS-5111-E			1/4
							CONNECTOR/SERIES			
IVD	AN AVIATION ELECTRO					JN1 Series				
			CDECIEICATION TADI			_	APPLICABLE		-	
3-1-1 MUSASHINO, AKISHIMA-CITY TOKYO, JAPAN			SPECIFICATION TABL			.E	JN1AS10UL1, JN1ES10SL1,			
""							JN1FS10SL*, JN1DS10SL*			
		:					APPLICABLE DWG NO. SJ034676, SJ034677, SJ034678,			
							ľ			
	ST	ANDARD DATA	<u> </u>	Rev.	Date				966, \$J03	
		AWG#21~28		1	12. Jun		Description			
aqA	licable wire	(For details, refer to handling manual "JAHL-5111-E".)		<b>-</b>	12. 5411	. 01		E Matsumoto	S.Napao	m, magim
,-,-										
One	rating current	3A per contact								
	rating voltage	200VAC								
	lectric	2007AG								
l	nstanding voltage	900VAC								
	perature range	-20°C∼+125°C								
	MARK	-20 C/ O +125 C								
										Grade
										В
- 75	REQUIREMENT									
ITEM			TEST METHOD			REQUIREMENT				
	Construction, Forms,						As specified in applicable drawings.			
	Dimensions, Materials									
	Finishies				<del></del>					
	Style Contact engagement					No stain, damages and cracks.				
	and separation	agement and separation force			Test pin   Specific value					
	forces	of a socket contact by test pin. Mating depth : 5mm				Engagement force Φ 0. 782 -0.003 2. 26N max				
						Separation force $\phi$ 0. 742 $\frac{0.003}{0}$ 0. 20N min				
	Vibration	The	TI							514 11111
	VIDIALION	i	The current of 100mA DC is applied to the					t, no ele		
R		contacts connected in series, and the current discontinuities are measured Amplitude: 1.52mm or 98m/s <sup>2</sup> Frequency: 10~500Hz				discontinuities more than 1 $\mu$ s. After test, parts should show no cracks or				
ပ										
*****						looseing.				
		10~500~10Hz (15 min/1 cycle) Each 3 hours								
_ a	,	for 3 axes. (Total: 9 hours)								`
ح	Vibration	[See Figure 1]				Day	ha alassid d			
ပ	durability		Amplitude: 1.8mm or 14.2m/s <sup>2</sup>				Parts should show no cracks or looseing.			
Σ		Frequency: 20Hz								,
		40 hours for 1								
İ										
	Shock	The current of 100mA DC is applied to the			Par	ts should abo		3.0.	$\cap \cap$	
			nected in series, and the				Parts should show no cracks or loosing. No electrical discontinuity more than $1 \mu s$ .			
	`	inuities are measured.								
		Accelration: 4	1				Reference Only			
	Time: 11ms									
		f-sine	е							
		3 times for 3 a	for 3 axis. (Total : 9 times)							
10E_0	-F206-1B (07 06)									

			No. JACS-5111-E 2/4				
	REQUIREMENT	TEOT METHOD					
ITEN	<del></del>	TEST METHOD	REQUIREMENT				
	Durability	Mating and unmating 500 times at a speed	No mechanical damages during. After test, to satisfy the contact resistance and contact				
		not exceeding 600 times per hour.					
	011	The state of the s	engagement and separation force.				
	Contact	The axial load is applied to the contact	The contact don't fall out from the				
_	retention force	from the mating side Load : 29.4N	insulator.				
	Crimp	Measure the tensile strength of crimped	Wire size tensile strength				
ر د	tensile strength	connection part of contacts.	AWG#21 43. 2N min				
_			AWG#22, #23 49. ON min AWG#24 34. 3N min				
c			AWG#25 26. 5N min				
- B			AWG#26 20. 5N min				
ے			AWG#28 13.7N min				
ပ	Cable tensile	The load of 20N shall be applied to the					
Ð	strength	connector cable installed as being used, in	Item Specified value				
Σ	o er oligen	the direction shown as figure2.	Cable tensile strength   20N min				
	Connector	The load of 50N shall be applied to the					
	breakdown strength	connector installed as being used, in the	I tem Specified value				
		direction shown as figure3.	Connector breakdown strength   50N min				
	Dielectric	The test voltage (900VAC) is applied between	No breakdown discharge.				
	withstanding	the nearest two contacts for one minute					
	voltage						
	Insulation	The test voltage (500VDC) is applied between	1000MΩ min.				
	resistance	the nearest two contacts.					
_	Contact resistance	The voltage drop shall be measured on the	Wire Contact resistance(low level)				
ď	(low level)	connector mated as being used, or on the	Size Initial ( $m\Omega$ max) After test ( $m\Omega$ max)				
ပ	:	contacts shown in Fig. 4, and the specified	AWC#21, #22 20 22				
-		value shall be satisfied.	AWG#23, #24 25 28				
_		The open voltage of both-end contacts is	AWG#25, #26 31 38				
-		20mV and the current run is 100mA DC.	AWG#28 50 60				
O							
ω _	Contact resistance		Wire Test Contact resistance				
   ш		connector mated as being used, or on the	size current (mΩ max)				
"		contacts shown in Fig. 4, and the specified	(A)   Initial   After test				
	value shall be satisfied.		AWG#21, #22 AWG#23, #24 3 20 23				
			AWC#25, #26 2 26 32				
			AWG#28 1.5 36 43				
			70 70				
	Temperature	5 cycles.	No cracks or damages.				
	cycling	Temperature(℃) Time	After test, dielectric withstanding				
t a		1 -20 0 30 minutes	voltage(900VAC) must satisfy the requirement				
_		2 Normal temperature Within 5 minutes	CONNECTOR CO				
n m e		10					
0 1		3 1123 0 30 milliores	Reference Only				
7		4   Normal temperature   Within 5 minutes					
·	Humidity	Expose at 95±3%	Dielectric withstanding voltage (900VAC) must				
_		Temperature : 71±2℃	satisfy the requirement.				
Ш		For 14 days					
	~=E206-2B (Q7 06)						

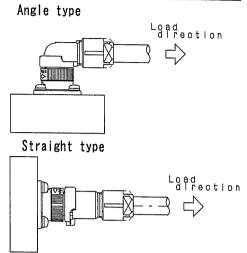
						No.	JACS-5111-E	3/4	
LTEM	REQUIREMENT	·			DEGILIDENENT				
ITEM	Salt spray MIL-STD-202 METHOD 101 condition B			on P	REQUIREMENT There shall be no corrosion that will affec				
	(Corrosion)							NIII AIIEGI	
	(Corrosion) After test, the connectors shall be washed performance.  with tap water and are dried in the heat wind After test, containing the connectors of							uet eatiefy	
			ulating dryer of 3			1		131 341131 <b>3</b>	
		Salt concentration : 5% Temperature : 35°C					equitionione.		
		Time : 48 hours.							
1	Water proof Carry out the test according to IEC 529,					Shoul	d satisty the requirement o	f	
		Degree of IP-67.				Dielectric withstanding voltage and			
1						insulation resistance.			
	Resistance to	Through hole connection part of receptacle				There shall be no transformation and damages			
_	soldering heat	shall be soaked into the solder(pot). Temperature of solder : 260℃				that	will affect performance.		
l a									
→			: 3 seconds.			ļ		1	
_	Oil-durability	The connector mated as being used shall be Ins soaked into the heated cutting oil for 200 as though as shown below.							
ψ.							orien, breakage, crack, and o oil-invasion inside.	there sharr	
hours as shown below. be no oil-in.  The heat condition and the oil used are shown.						o off theaston thatae.			
		in the table below.							
^							₽		
_							Cuttl	ng oll	
>			Cutting oil	Diluted	Temperature			7	
ء			name	Not					
ш			UNICUT TB15	diluted					
		2	UNISOLUBLE CC	1:50					
		3	UNISOLUBLE HD YUSHIROKEN EC50	1:10					
1		-	YUSHIRON CUT SUPER		0500				
	:	5	BX45N	diluted	85℃				
		7	SYNTILO 9974	1:10					
			G40H	Not   diluted					
l				Not					
		8	HONILO 481	diluted					
		9	MAKINO SPINDLE	Not	Normal				
			LUBRICANT	diluted	temperature	ŀ			
<u> </u>									

## JAE-CONNECTOR.COM Reference Only

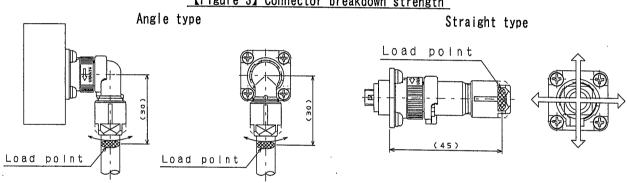
【Figure 1】 Vibration durability
Angle type Straight type



[Figure 2] Cable tensile strength



[Figure 3] Connector breakdown strength



[Figure 4] Contact resistance

