

0

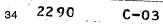
## ■GENERAL SPECIFICATIONS (MAIN PERFORMANCE)

(Note) Group A... crimp type socket connector, dip receptacle pin header, pin connector

Group B..., socket connector for FRC (contact installed) and PCB transition connector

TEST ITEM		PERFORMANCE					TEST METHOD
		GROUF	PA	GROUP	GROUP B		
	Rated current	ЗА		1 A	1 A		-
ELECTRICAL	Insulation resistance	1000 M Ω min.		1000 M s	1000 M $\Omega$ min.		To be measured within 1 min. with 500 VDC (100 VDC for FRC socket) applied between contacts
	D.W.V.	1000 VAC r.m.s.		500 VAC	500 VAC r.m.s.		Between the most adjacent contacts for 1 min.
	Contact resistance	10 mΩ max.			<ul> <li>(a) socket20 mΩ max.</li> <li>(b) transition 10 mΩ max.</li> </ul>		Voltage drop measurement, test current 0.1 A DC, applied voltage 3-6 V
	Low level contact resistance	10 m Ω	max.		<ul> <li>(a) socket20 mΩ max.</li> <li>(b) transition 10 mΩ max.</li> </ul>		Test current 1 mA max. Open test voltage 20 mV max.
MECHANICAL	Lever operating force (shrouded pin header)	2.5 kg n 3 kg ma	nax. for 16 x. for 40 –	ontact connector -34 contact conr -50 contact conne ) contact connector	ntact connector act connector		Both levers are operated evenly to unmate mated connectors and the load is measured using tester
	Locking strength (shrouded pin header)	(a) 8 kg min. (b) no cracking, breaking or loosening of parts					Mated connectors are pulled in the axial direction and the load is measured using tester.
	Individual contact unmating force	40 g min.					A steel pin gage (.025 $\pm$ .00004 (0.64 $\pm$ 0.01)) is inserted into and withdrawn from socket contact in the axial direction and withdrawal force is measured
	Connector mating/ unmating force	300 (b) coni	g x (no. of nector unr	ting force contacts) max. nating force contacts) min.	ts) max. orce		Pin header is inserted into and withdrawn from socket connector in the axial direction and the load is measured using a tester
	Cover holding force	-			(a) socket 10 kg min. (b) transition 5 kg min.		Cover insulator assembled in base insulator is pulled to separate from base insulator and the load is measured
	Crimp tensile strength (crimp contact only)			Corresponding AWG No.	ding Min. crimp tensile strength		Both ends of crimped contact and wire are pulled to the axial direction until the contact and the wire are ultimately separated or broken
		0.2 mm²		#24			
		0.15		#26			
		0.08	· ·····	#28		1.4	
ENVIRONMENTAL	Thermal shock	Step Temperature (°C) Time (min.)					MIL-STD-202, Method 107, condition B (condition A for FRC connector), mated connector, 5 cycles, no physical
		1 -65±§ (-55±§ for Group B) 30			3)		damage during test.
			$2 + 25 \pm \frac{10}{5}$ 5 max.				-
			3 +125±§ (+85±§ for Group B) 30				
	Moisture	4 $+25^{+10}_{-b}$ 5 max.       After test     insulation resistance 100 M Ω min.				5 max.	MIL-STD-202, Method 103, condition B, Mated connector, $40 \pm 2^{\circ}$ C, 90 to 95% relative humidity, 96 hours
	resistance Salt spray	No evidence of corrosion on contacts					MIL-STD-202, method 101, condition B, Mated connector,
	Sanspray	sufficient to interfere with operation of connectors.					5% salt solution, 35°C, 48 hours
	Vibration	No cracking, breaking or loosening of parts, no interruption more than 1 microsecond max. Individual contact unmating force and connector mating/ unmating force are to be passed					MIL-STD-202, Method 204 (Method 201 for FRC connector) Mated connectors, carrying a 100 mA current during test
	Shock	No cracking, breaking or loosening of parts. No Interruption more than 1 microsecond					MIL-STD-202, Method 202, Mated connector, 50G, one blow in each direction of three mutually perpendicular axes, carrying a 100mA current during test
	Durability	No physical defects during test After test, Individual contact unmating force: 40 g min. Contact resistance: 10 m $\Omega$ max. (40 m $\Omega$ max. for FRC connector)					500 cycles of mating and unmating
	Current cycling	Wire size Te (AWG)		Test current (A)			50 cycles of current cycling test (one cycle consists current running of 30 minutes and no current of 15 minutes) are conducted and the resistance at connecting portion is measured.
		#28		1.25	1.25 5		
		#26		1.25			
	l	#24		3.75	3.75 10		

Note: For detailed specifications, consult us.



## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

**JAE Electronics**:

PS-30PA-D4T1-PKL1 PS-5PA-S4T1-PKL1 PS-3PA-S4T1-PKL1 PS-15PA-S4T1-PKL1 PS-20PA-D4T1-PKL1