• P.C.B. RIBBON CABLE TRANSITION CONNECTOR (IDC TYPE)

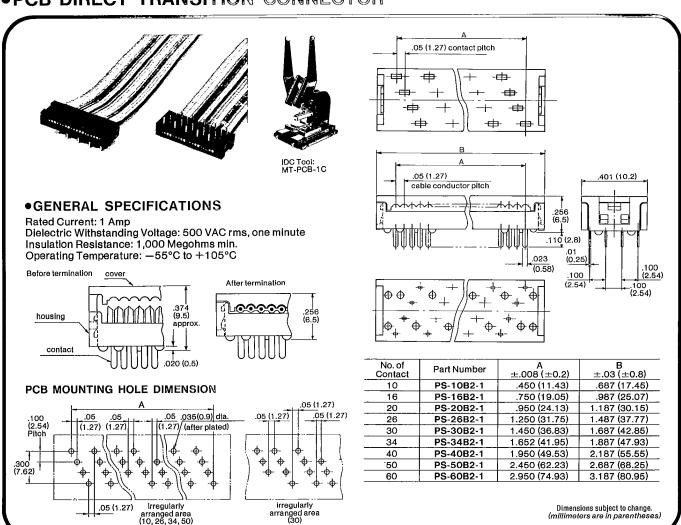
P.C.B. Ribbon Cable Transition connectors, terminated (IDC) with Flat Ribbon Cable, make connection with P.C. Board. Three versions are available.

- PCB DIRECT TRANSITION CONNECTOR
- 0.10 (2.54mm) Grid, TRANSITION CONNECTOR
- IDC DUAL-IN-LINE PLUG CONNECTOR, which can be mated with IC socket or which can be soldered directly to PCB

IDC termination tools are provided for these versions individually.

- OMATERIALS & FINISHES A 65-//
 Contact: Beryllium copper, gold over nickel plated Housing & Cover: Polyester (UL94V-0, black)
 Cover (for DIP type): 66 Nylon (UL94V-0, black)

•PCB DIRECT TRANSITION CONNECTOR



■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
.=0(1) mm		GROUP A			GROUP B			
	Rated current	3A			1 A			_
ELECTRICAL	Insulation resistance	1000 M	10	1000 M Ω 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 r.m.s.			Between the most adjacent contacts for 1 min.
	Contact resistance	10 mΩ max.			(a) socket20 m Ω max. (b) transition 10 m Ω max.			Voltage drop measurement, test current 0.1 A DC, applied voltage 3—6 V
	Low level contact resistance	10 mΩ max.			(a) socket 20 m Ω max. (b) transition 10 m Ω max.			Test current 1 mA max. Open test voltage 20 mV max.
MECHANICAL	Lever operating force (shrouded pin header)	2.5 kg r 3 kg ma	nax. for 16 x. for 40 –		ontact connector ntact 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						A steel pin gage (.025±.00004 (0.64±0.01)) is inserted into and withdrawn from socket contact in the axial direction and withdrawal force is measured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) con	g x (по. of nector uni	ting force contacts) m mating force. contacts) mir	ets) max. force			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) socket10 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)	Nomina sect. ar	Correspon AWG No.				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 mm	#24	#24 3.5 kg		3.5 kg		
		0.15		#26	3 2			2.1
		80.0		#28			1.4	
ENVIRONMENTAL	Thermal shock	Step	Step Temperature (°C) Time (min.)					MIL-STD-202, Method 107, condition B (condition A for FRC connector), mated connector, 5 cycles, no physical damage during test.
		1						
		2						
		3						
		4	4 +25½0 5 max.					
	Moisture resistance	After test insulation resistance 100 M Ω min.					MIL-STD-202, Method 103, condition B, Mated connector, $40\pm2^{\circ}$ C, 90 to 95% relative humidity, 96 hours	
	Salt spray	No evidence of corrosion on contacts sufficient to interfere with operation of connectors.						MIL-STD-202, method 101, condition B, Mated connector, 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 Ω max. (40 m Ω max. for FRC connector)						500 cycles of mating and unmating
	Current cycling	Wire size Test co (AWG) (A		rent Voltage drop (mV)			50 cycles of current cycling test (one cycle consists current running of 30 minutes and no current of 15	
		#28		1.25	1.25		5	minutes) are conducted and the resistance at connecting portion is measured.
		#26			1.25 4			
		#	#24 3.75 10					

Note: For detailed specifications, consult us.

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