3M[™] Pak 50 I/O Plug

.050" Straight and Right Angle, Boardmount

P50 Series



- EMI shielded
- 20 to 100 position
- Mates to P50 Series cable mount socket
- RoHS* compliant

Date Modified: October 2, 2006

TS-1147-02 Sheet 1 of 7

Physical

Insulation	
Material:	Glass Filled Nylon
Flammability:	UL 94V-0
Color:	Black
Contact	
Material:	Phosphor Bronze
Plating	
Underplating:	Nickel
Wiping Area:	10 µ" [0.25 µm] Gold
Solder Tails:	Gold Flash

Electrical

Current Rating:	0.5 A
Insulation Resistance:	10^3 M Ω min. at 500 VDC
Withstanding Voltage:	650 VAC for 1 minute

Environmental

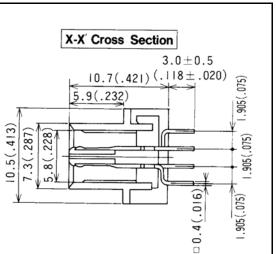
Temperature Rating:-55°C to +85°CProcess Rating:260°C (per J-STD-020C)

*"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated in writing by 3M, this information represents 3M's knowledge and belief based on information provided by third party suppliers to 3M.

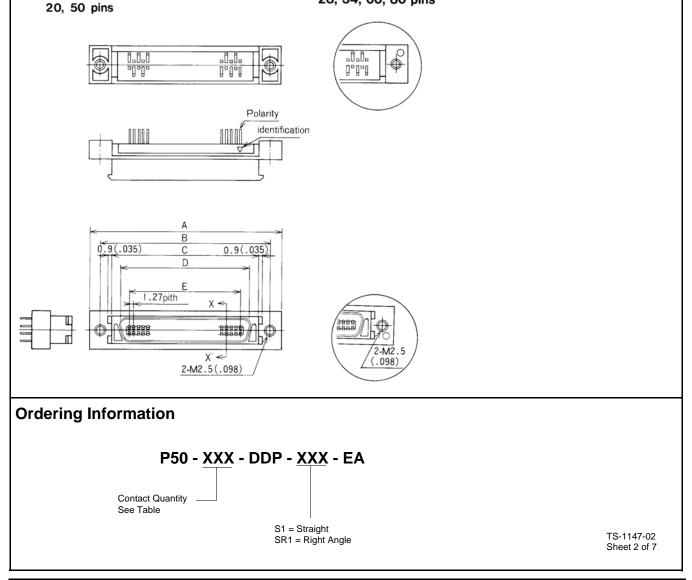
Straight Plug

Product Table / Dimensions

Contact Quantity	А	В	С	D	Е
20	33.40	27.40	21.60	16.73	11.43
	[1.315]	[1.079]	[0.850]	[0.659]	[0.450]
28	38.48	32.48	26.68	21.81	16.51
	[1.515]	[1.279]	[1.050]	[0.859]	[0.650]
34	42.29	36.29	30.49	25.62	20.32
	[1.665]	[1.429]	[1.200]	[1.009]	[0.800]
50	52.45	46.45	40.65	35.78	30.48
	[2.065]	[1.829]	[1.600]	[1.409]	[1.200]
60	58.80	52.80	47.00	42.13	36.83
	[2.315]	[2.079]	[1.850]	[1.659]	[1.450]
68	63.88	57.88	52.08	47.21	41.91
	[2.515]	[2.279]	[2.050]	[1.859]	[1.650]
80	71.50	65.50	59.70	54.83	49.53
	[2.815]	[2.579]	[2.350]	[2.159]	[1.950]



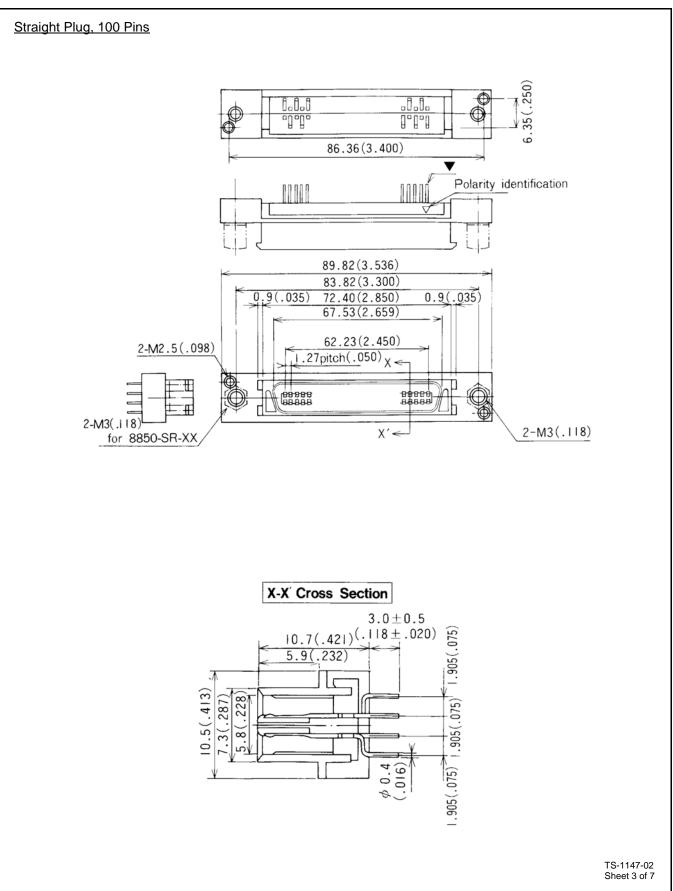
28, 34, 60, 80 pins



SM Interconnect Solutions http://www.3M.com/interconnects/

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.050" Straight and Right Angle, Boardmount



P50 Series

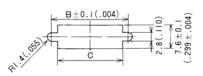


Product Table / Dim ensions

Contact Quantity	A	В	С
20	11.43	27.40	24.40
	[0.450]	[1.079]	[0.961]
28	16.51	32.48	29.48
	[0.650]	[1.279]	[1.161]
34	20.32	36.29	33.29
	[0.800]	[1.429]	[1.311]
50	30.48	46.45	43.45
	[1.200]	[1.829]	[1.711]
60	36.83	52.80	49.80
	[1.450]	[2.079]	[1.961]
68	41.91	57.88	54.88
	[1.650]	[2.279]	[2.161]
80	49.53	65.50	62.50
	[1.950]	[2.579]	[2.461]

Panel Cutout Dimensions

20, 28, 34, 50, 60, 68, 80 pins Recommended panel thickness: 2.0max.(.079)

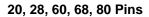


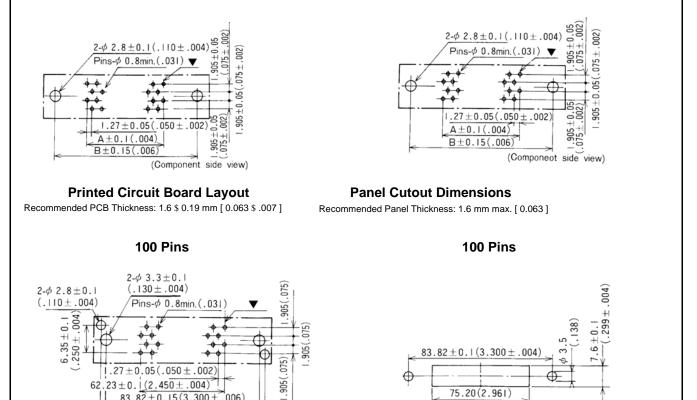
Recommended PCB Thickness: 1.6 \$ 0.19 mm [0.063 \$.007]

Printed Circuit Board Layout

Recommended PCB Thickness: 1.6 \$ 0.19 mm [0.063 \$.007]

34, 50 Pins





(Component side view) ЗМ

83.82±0.15(3.300±.006) 86.36±0.15(3.400±.006)

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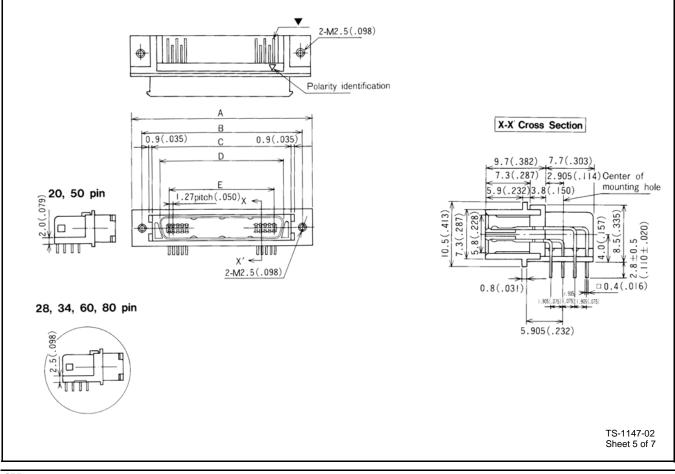
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75.20(2.961)

Interconnect Solutions http://www.3M.com/interconnects/

Right Angle Plug

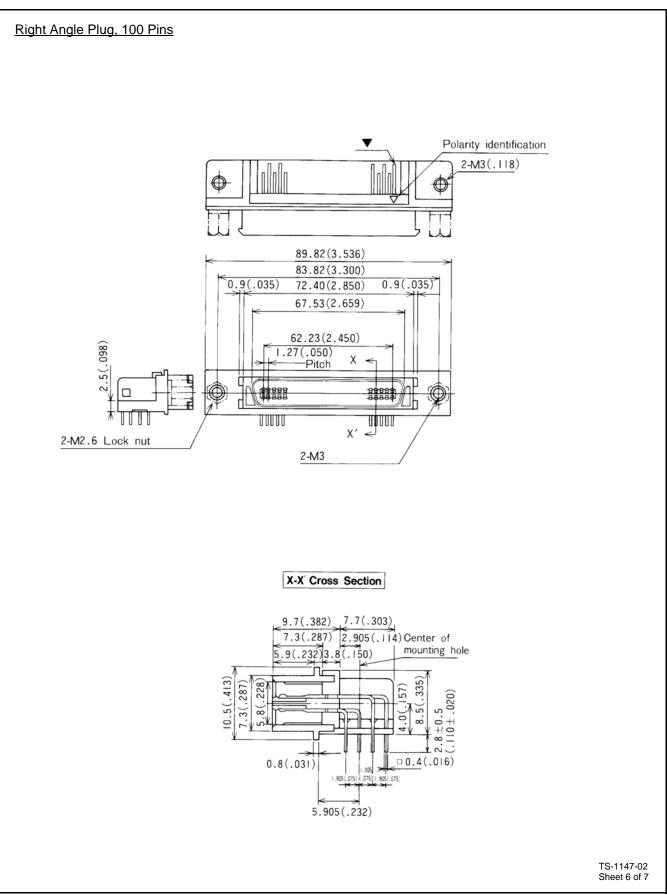
Contact Quantity	А	В	С	D	Е
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	[1.315]	[1.079]	[0.850]	[0.659]	[0.450]
28	38.48	32.48	26.68	21.81	16.51
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34	42.29	36.29	30.49	25.62	20.32
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	[2.065]	[1.829]	[1.600]	[1.409]	[1.200]
60	58.80	52.80	47.00	42.13	36.83
	[2.315]	[2.079]	[1.850]	[1.659]	[1.450]
68	63.88	57.88	52.08	47.21	41.91
	[2.515]	[2.279]	[2.050]	[1.859]	[1.650]
80	71.50	65.50	59.70	54.83	49.53
	[2.815]	[2.579]	[2.350]	[2.159]	[1.950]



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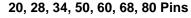
Right Angle

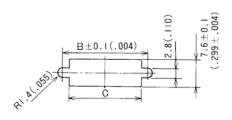
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80	49.53	65.50	62.50
	[1.950]	[2.579]	[2.461]

Panel Cutout Dimensions Recommended Panel Thickness: 2.0 mm [0.079]

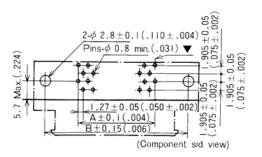




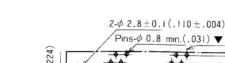


Printed Circuit Board Layout Recommended PCB Thickness: 1.6 \$ 0.19 mm [0.063 \$.007]

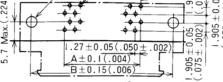
34, 50 Pins



Printed Circuit Board Layout Recommended PCB Thickness: 1.6 \$ 0.19 mm [0.063 \$.007]



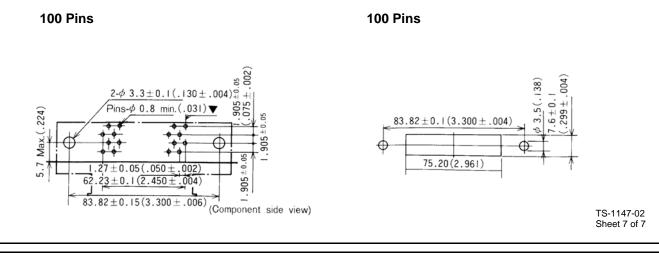
20, 28, 60, 68, 80 Pins



(Component side view)

Panel Cutout Dimensions

Recommended Panel Thickness: 1.6 mm max. [0.063]



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