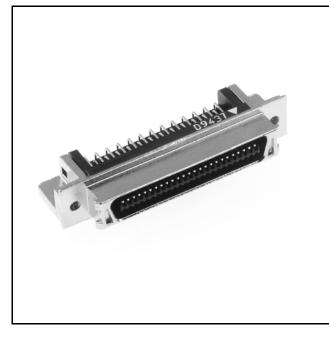
## 3M<sup>™</sup> Pak 50 I/O Plug

## .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

<b>Current Rating:</b>	0.5 A		
Insulation Resistance:	$10^3$ M $\Omega$ 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)

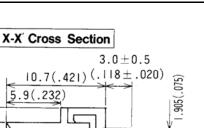
\*"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent 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.

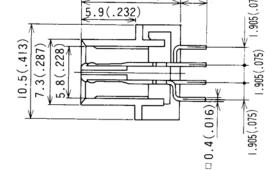
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#### Straight Plug

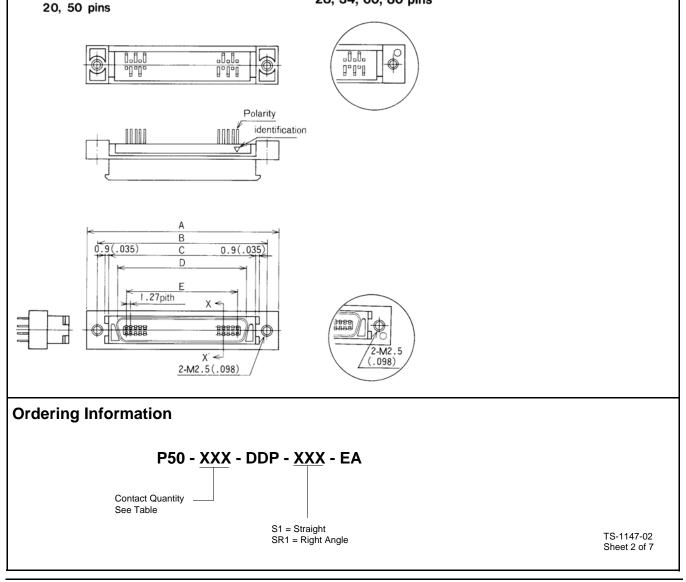
**Product Table / Dimensions** 

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

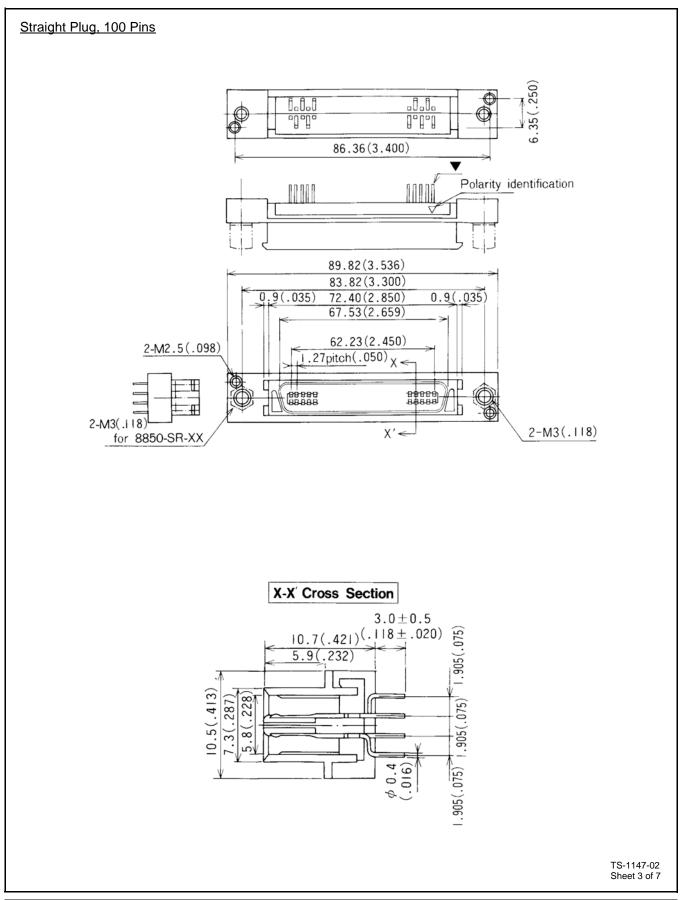


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# 3M™ Pak 50 I/O Plug

## .050" Straight and Right Angle, Boardmount





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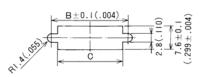
#### Straight Plug

#### 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)

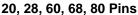


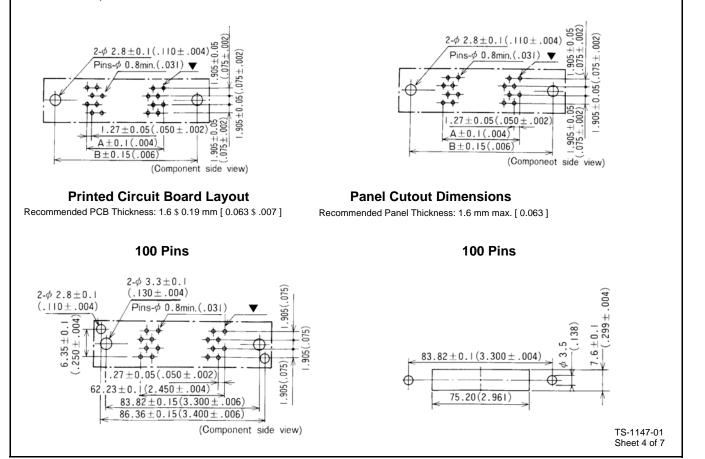
Recommended PCB Thickness: 1.6 \$ 0.19 mm [ 0.063 \$ .007 ]

#### **Printed Circuit Board Layout**

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

34, 50 Pins





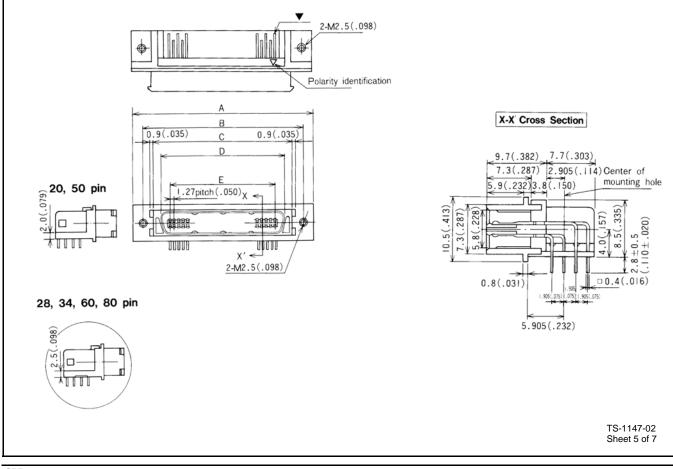
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**P50** Series

#### Right Angle Plug

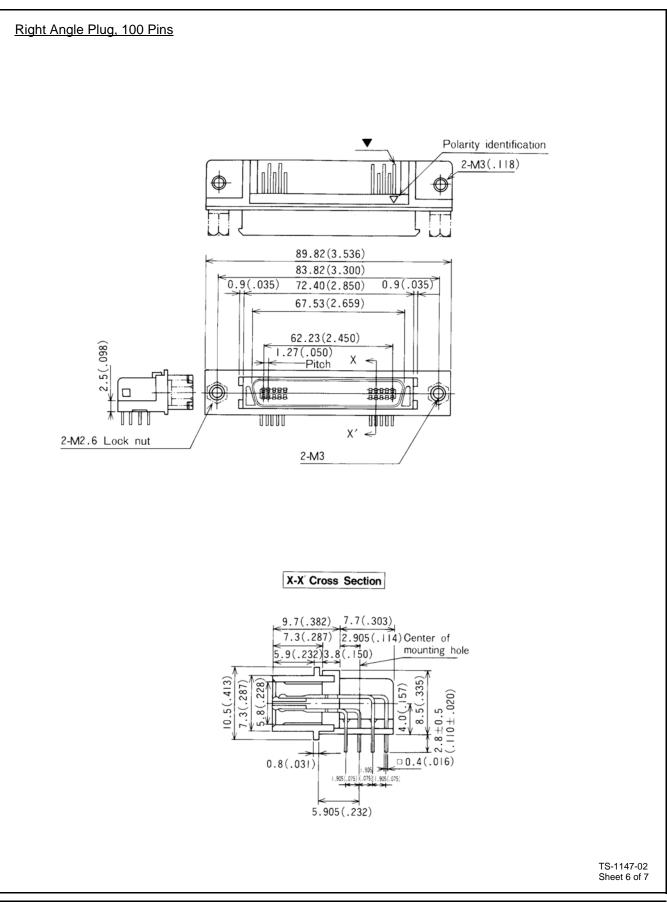
Contact Quantity	А	В	С	D	Е
20	33.40	27.40	21.60	16.73	11.43
	[1.315]	[1.079]	[0.850]	[0.659]	[0.450]
28	38.48	32.48	26.68	21.81	16.51
	[1.515]	[1.279]	[1.050]	[0.859]	[0.650]
34	42.29	36.29	30.49	25.62	20.32
	[1.665]	[1.429]	[1.200]	[1.009]	[0.800]
50	52.45	46.45	40.65	35.78	30.48
	[2.065]	[1.829]	[1.600]	[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]



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## 3M<sup>™</sup> Pak 50 I/O Plug

## .050" Straight and Right Angle, Boardmount



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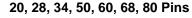
#### Right Angle

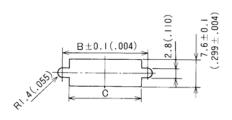
Product Table / Dimensions

Contact Quantity	A	В	С
20	11.43	27.40	24.40
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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 ]





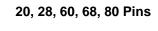


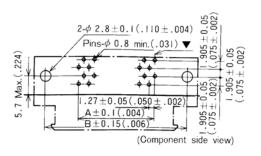
#### **Printed Circuit Board Layout** Recommended PCB Thickness: 1.6 \$ 0.19 mm [ 0.063 \$ .007 ]

34, 50 Pins

2-¢ 2.8±0.1(.110±.004) ♀ \$ 0.8 min.(.031) 27±0.05(.050+ 002 A±0.1(.004) 905 B±0.15(.006 (Component sid view)

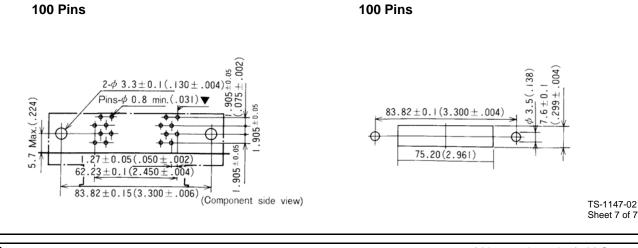
> **Printed Circuit Board Layout** Recommended PCB Thickness: 1.6 \$ 0.19 mm [ 0.063 \$ .007 ]





### **Panel Cutout Dimensions**

Recommended Panel Thickness: 1.6 mm max. [ 0.063 ]



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