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

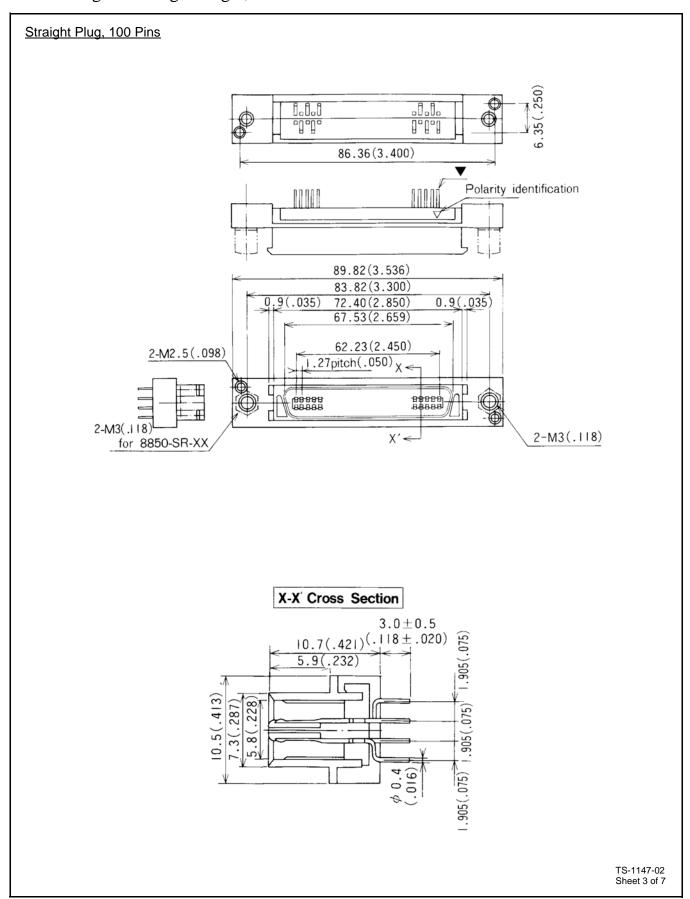
Environmental

Temperature Rating: -55°C to +85°C

Process 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 X-X Cross Section **Product Table / Dimensions** 3.0 ± 0.5 Contact 10.7(.421)(.118±.020) C E Quantity 5.9(.232) 33.40 27.40 21.60 16.73 11.43 [1.315] [1.079] [0.850] [0.659] [0.450]32.48 16.51 28 38.48 26.68 21.81 10.5(.413)[1.515] [1.279] [1.050] [0.859] [0.650] 3(.287) .075) 34 42.29 36.29 30.49 20.32 [1.665] [1.429] [1.200] [1.009] [0.800] 8 52.45 35.78 30.48 [2.065][1.829][1.600][1.409] [1.200]36.83 60 58.80 52.80 47.00 42.13 [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 59.70 [2.815] [2.579] [2.350] [2.159] [1.950] 28, 34, 60, 80 pins 20, 50 pins 0.0.0 "]"]" .0.0. 0.0.0 Polarity identification 0.9(.035) С 0.9(.035) D 1.27pith 2-M2.5 2-M2.5(.098) **Ordering Information P50 - XXX - DDP - XXX - EA Contact Quantity** See Table S1 = Straight TS-1147-02 SR1 = Right Angle Sheet 2 of 7



Straight Plug

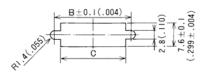
Product Table / Dim ensions

Contact Quantity	A	В	С
2 0	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]
3 4	20.32	36.29	33.29
	[0.800]	[1.429]	[1.311]
5 0	30.48	46.45	43.45
	[1.200]	[1.829]	[1.711]
6 0	36.83	52.80	49.80
	[1.450]	[2.079]	[1.961]
6 8	41.91	57.88	54.88
	[1.650]	[2.279]	[2.161]
8 0	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)

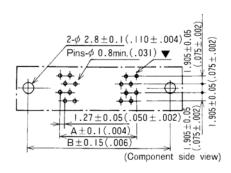


Recommended PCB Thickness: 1.6 \$ 0.19 mm [0.063 \$.007]

Printed Circuit Board Layout

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

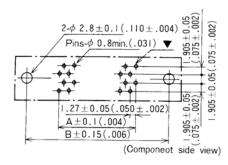
34, 50 Pins



Printed Circuit Board Layout

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

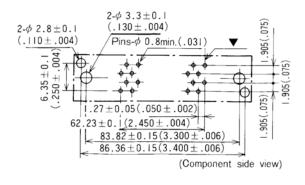
20, 28, 60, 68, 80 Pins



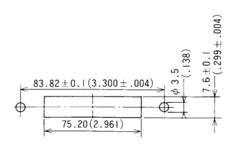
Panel Cutout Dimensions

Recommended Panel Thickness: 1.6 mm max. [0.063]

100 Pins



100 Pins

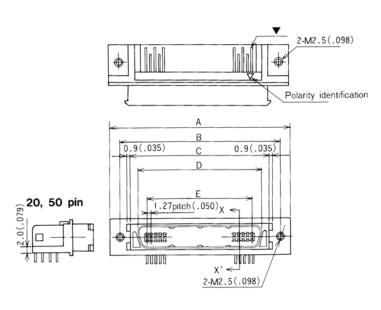


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Right Angle Plug

Product Table / Dimensions

Contact Quantity	A	В	С	D	E
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 pin

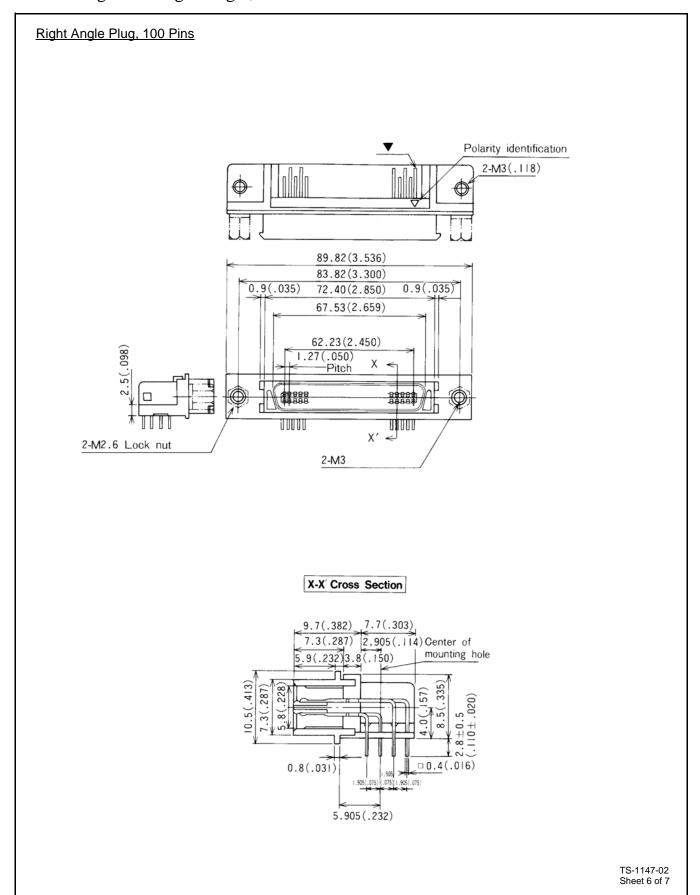


9.7(.382) 7.7(.303) 7.3(.287) 2.905(.114) Center of mounting hole mounting hole (SEE) (SE

5.905(.232)

X-X Cross Section

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Right Angle

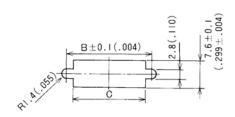
Product Table / Dimensions

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]
3 4	20.32	36.29	33.29
	[0.800]	[1.429]	[1.311]
5 0	30.48	46.45	43.45
	[1.200]	[1.829]	[1.711]
6 0	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]
8 0	49.53	65.50	62.50
	[1.950]	[2.579]	[2.461]

Panel Cutout Dimensions

Recommended Panel Thickness: 2.0 mm [0.079]

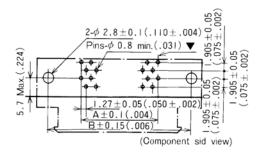
20, 28, 34, 50, 60, 68, 80 Pins



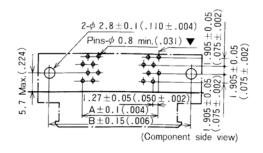
Printed Circuit Board Layout

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

34, 50 Pins



20, 28, 60, 68, 80 Pins



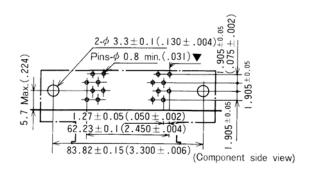
Printed Circuit Board Layout

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

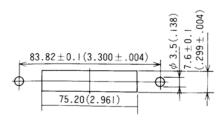
Panel Cutout Dimensions

Recommended Panel Thickness: 1.6 mm max. [0.063]

100 Pins



100 Pins



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Important Notice

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