# 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

Date Modified: May 15, 2003

TS-1147-01 Sheet 1 of 7

# Physical

InsulationMaterial:Glass Filled NylonFlammability:UL 94V-0Color:BlackContactMaterial:Phosphor BronzePlatingUnderplating:NickelWiping Area:See Ordering InformationSolder Tails:Tin Alloy over Nickel

# Electrical

Current Rating:0.5 AInsulation Resistance: $10^3 \text{ M}\Omega$  min. at 500 V DCWithstanding Voltage650 V AC for 1 minute

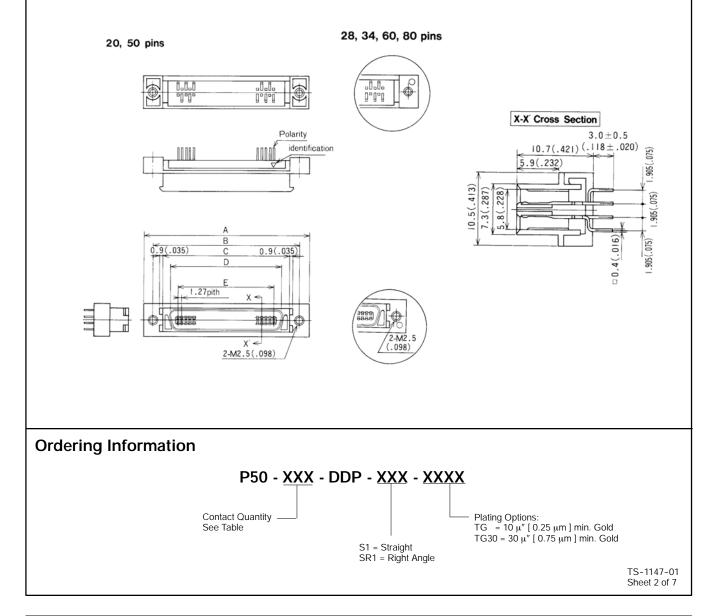
# Environmental

**Temperature Rating:** -55°C to +85°C

### Straight Plug

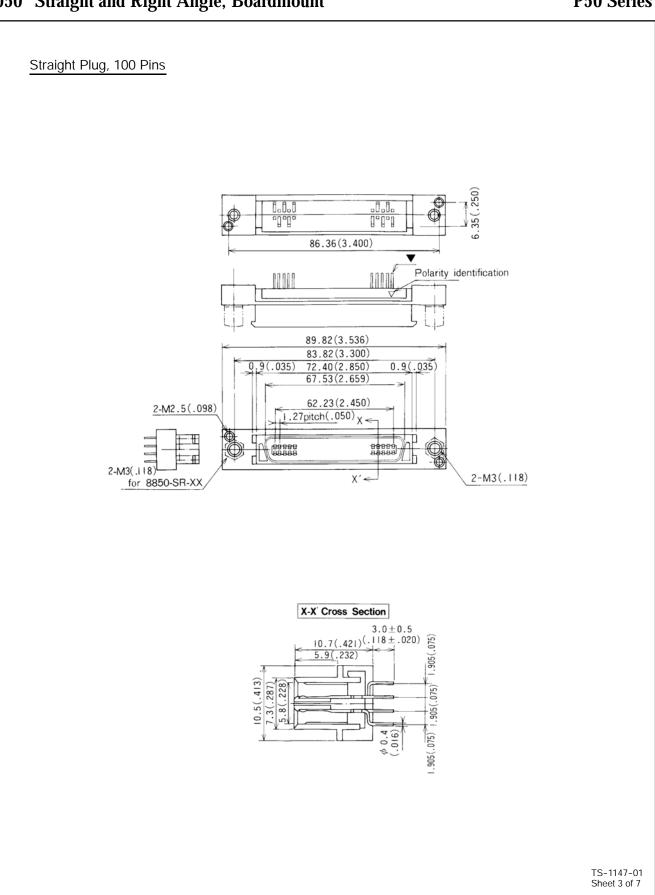
**Product Table / Dimensions** 

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]



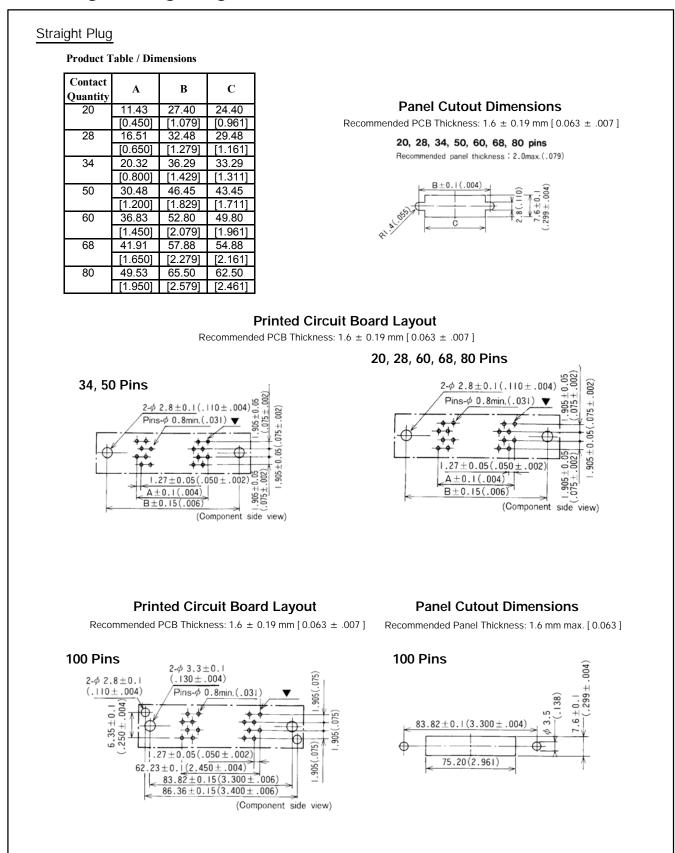
**3M** Interconnect Solutions http://www.3M.com/interconnects/

# 3M<sup>™</sup> Pak 50 I/O Plug .050″ Straight and Right Angle, Boardmount



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

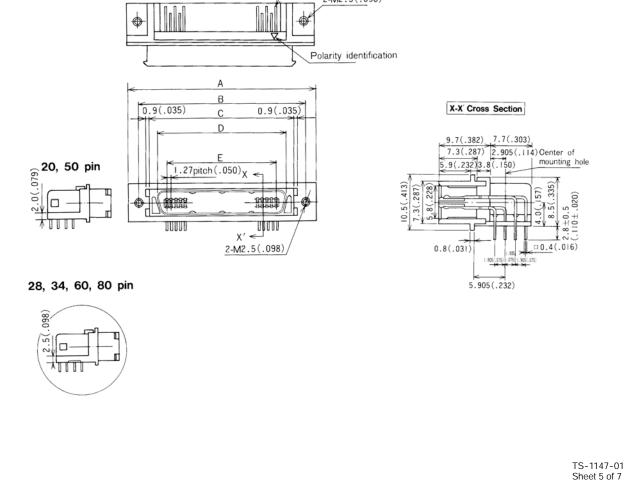
Downloaded from Elcodis.com electronic components distributor



**3M** Interconnect Solutions http://www.3M.com/interconnects/ TS-1147-01 Sheet 4 of 7

### **Right Angle Plug**

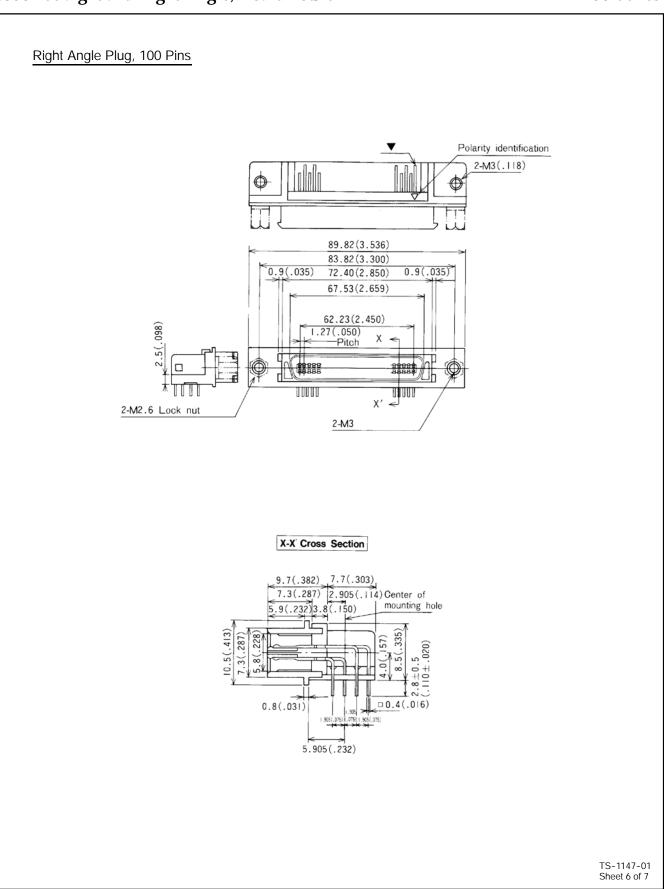
**Product Table / Dimensions** 



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

Downloaded from Elcodis.com electronic components distributor

# 3M<sup>™</sup> Pak 50 I/O Plug .050″ Straight and Right Angle, Boardmount



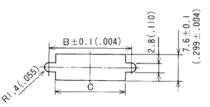
**3M** Interconnect Solutions http://www.3M.com/interconnects/

### **Right Angle**

#### **Product Table / Dimensions**

Contact Quantity	Α	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]

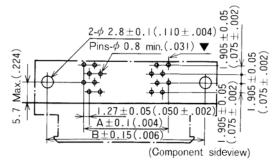
## Panel Cutout Dimensions Recommended Panel Thickness: 2.0 mm [ 0.079 ] 20, 28, 34, 50, 60, 68, 80 Pins



## Printed Circuit Board Layout

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

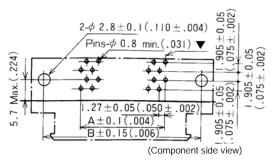
34, 50 Pins



## Printed Circuit Board Layout

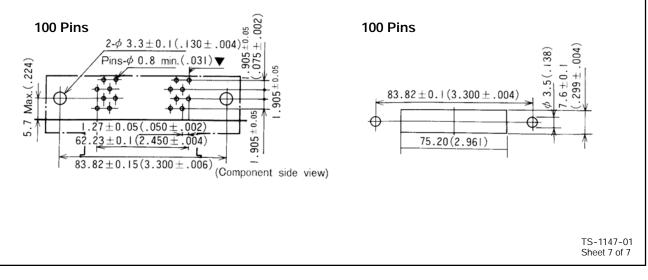
Recommended PCB Thickness: 1.6  $\pm$  0.19 mm [ 0.063  $\pm$  .007 ]

# 20, 28, 60, 68, 80 Pins



## Panel Cutout Dimensions

Recommended Panel Thickness: 1.6 mm max. [0.063]



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

#### **Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.



#### **Electronic and Interconnect Solutions Division**

6801 River Place Blvd. Austin, TX 78726-9000 www.3M.com/eisd

#### Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of 1 year from the date of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any loss or damage arising from** this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.