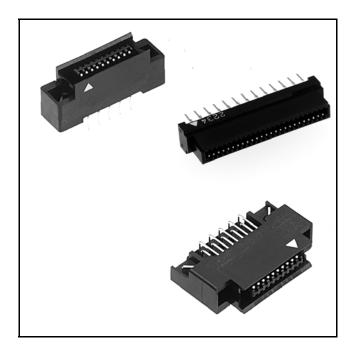
3MTM Pak 50 Socket .050" Straight and Right Angle Socket, with Ret. Clips, Flng. Option

P50 Series



- Contact design features two contact points and straight beam construction for connector reliability and low insertion force
- Available retention clip secures connector for wave soldering eliminating additional hardware expenses
- Horizontal, parallel or vertical mating available
- Insulator design prevents mis-insertion errors and contact damage
- Available with and without flanges
- RoHS* compliant

Date Modified: November 11, 2006

TS-2047-03 Sheet 1 of 5

Physical

Insulation	
Material:	Glass Filled Nylon
Flammability:	UL 94V-0
Color:	Black
Contact	
Material:	Phosphor Bronze
Plating	
Underplating:	Nickel
Wiping Area:	$10~\mu^{\prime\prime}$ [$0.25~\mu m$] Gold
Solder Tails:	Gold Flash
Retaining Clips:	Tin-Copper

Electrical

Current Rating:	0.5 A
Insulation Resistance:	$> 1 \times 10^3 \Omega$ at 500 V_{DC}
Withstanding Voltage:	650 V _{AC} for 1 minute

Environmental

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

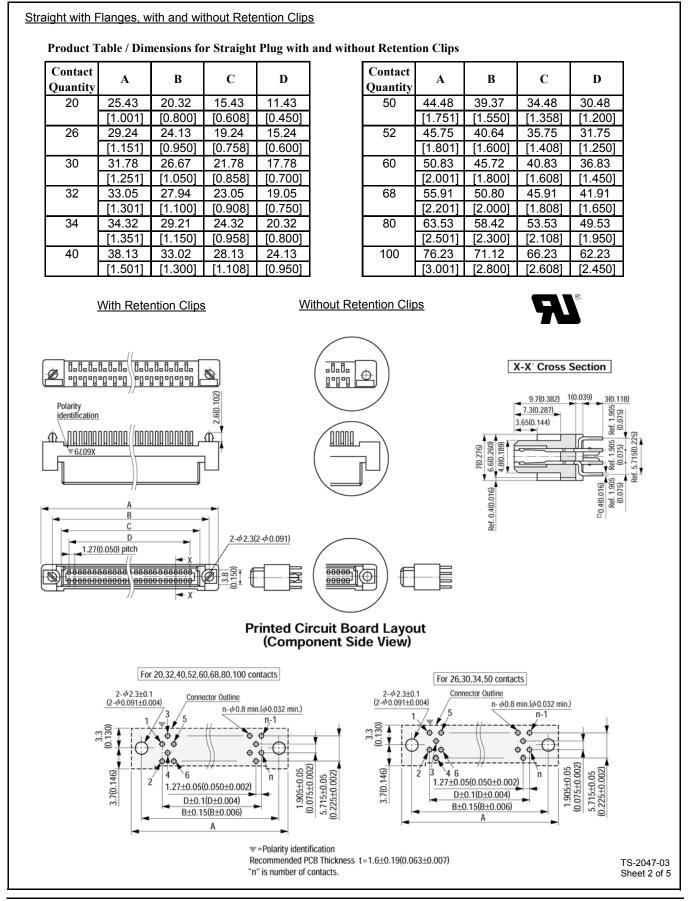
"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent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

UL File No.: E68080

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

3M is a trademark of 3M Company. For technical, sales or ordering information call 800-225-5373

P50 Series



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

P50 Series

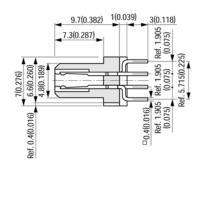
Without Flanges

Product Table / Dimensions for Straight Plug without Flanges

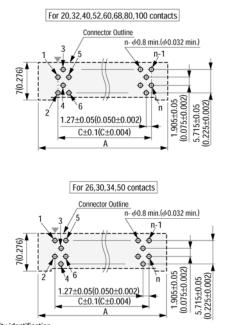
Contact Quantity	А	В	С
20	17.83	15.43	11.43
	[0.702]	[0.608]	[0.450]
26	21.64	19.24	15.24
	[0.852]	[0.758]	[0.600]
30	24.18	21.78	17.78
	[0.952]	[0.858]	[0.700]
32	25.45	23.05	19.05
	[1.002]	[0.908]	[0.750]
34	26.72	24.32	20.32
	[1.052]	[0.958]	[0.800]
40	30.53	28.13	24.13
	[1.202]	[1.108]	[0.950]

Contact Quantity	Α	В	С
50	36.88	34.48	30.48
	[1.452]	[1.358]	[1.200]
52	38.15	35.75	31.75
	[1.502]	[1.408]	[1.250]
60	43.23	40.83	36.83
	[1.702]	[1.608]	[1.450]
68	48.31	45.91	41.91
	[1.902]	[1.808]	[1.650]
80	55.93	53.53	49.53
	[2.202]	[2.108]	[1.950]
100	68.63	66.23	62.23
	[2.702]	[2.608]	[2.450]

X-X Cross Section

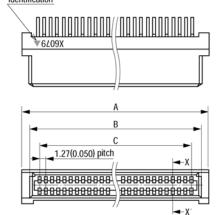


Printed Circuit Board Layout (Component Side View) Printed Circuit Board Layout (Component Side View)



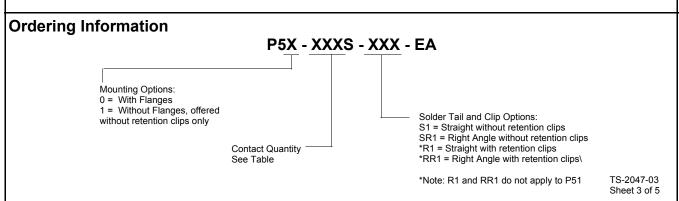


Polarity identification



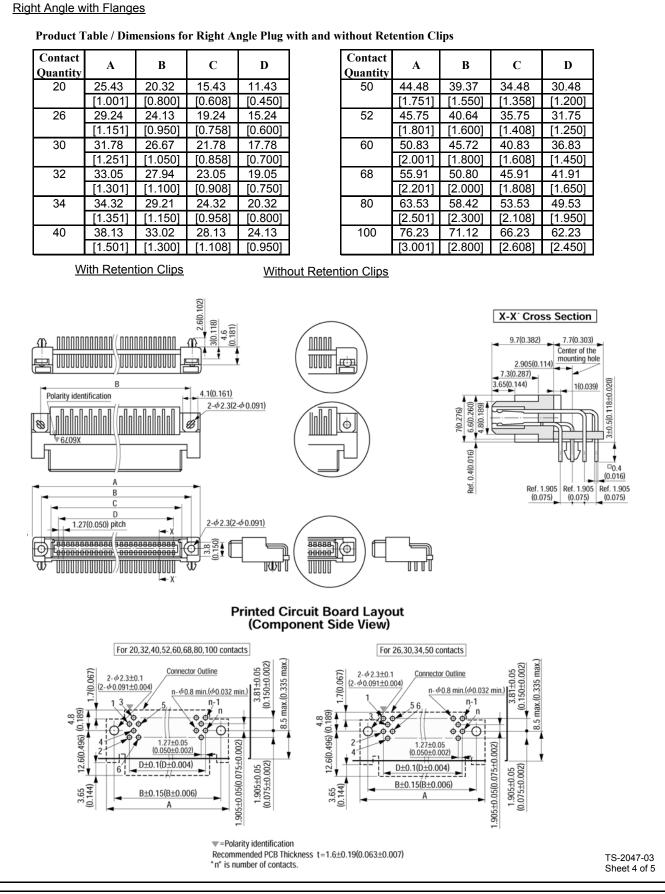


▼=Polarity identification Recommended PCB Thickness t=1.6±0.19(0.063±0.007) *n° is number of contacts.



3MTM Pak 50 Socket .050" Straight and Right Angle Socket, with Ret. Clips, Flng. Option

P50 Series



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

3M is a trademark of 3M Company. For technical, sales or ordering information call 800-225-5373

3M™ Pak 50 Socket

.050" Straight and Right Angle Socket, with Ret. Clips, Flng. Option

P50 Series

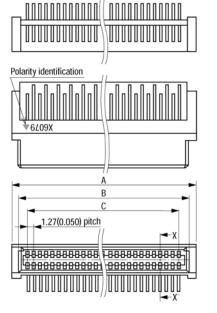
Right Angle without Flanges

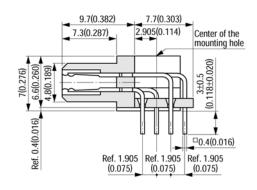
Product Table / Dimensions for Right Angle Plug without Flanges

Contact Quantity	А	В	С
20	17.83	15.43	11.43
	[0.702]	[0.608]	[0.450]
26	21.64	19.24	15.24
	[0.852]	[0.758]	[0.600]
30	24.18	21.78	17.78
	[0.952]	[0.858]	[0.700]
32	25.45	23.05	19.05
	[1.002]	[0.908]	[0.750]
34	26.72	24.32	20.32
	[1.052]	[0.958]	[0.800]
40	30.53	28.13	24.13
	[1.202]	[1.108]	[0.950]

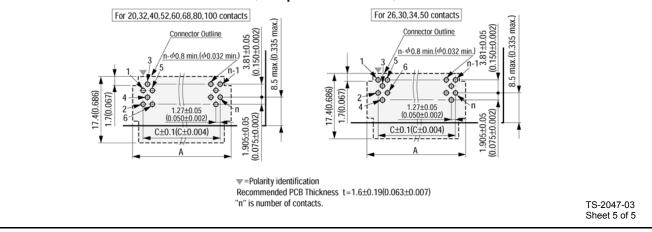
Contact Quantity	Α	В	С
50	36.88	34.48	30.48
	[1.452]	[1.358]	[1.200]
52	38.15	35.75	31.75
	[1.502]	[1.408]	[1.250]
60	43.23	40.83	36.83
	[1.702]	[1.608]	[1.450]
68	48.31	45.91	41.91
	[1.902]	[1.808]	[1.650]
80	55.93	53.53	49.53
	[2.202]	[2.108]	[1.950]
100	68.63	66.23	62.23
	[2.702]	[2.608]	[2.450]

X-X´ Cross Section





Printed Circuit Board Layout (Component Side View)



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.



3M Electronics

6801 River Place Blvd. Austin, TX 78726-9000 800/225-5373 www.3M.com/electronics

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the time 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 indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.

Minimum 10% Post-Consumer Fiber

Printed in USA. © 3M 2006