

3M™ Pak 50 I/O Socket

.050" Straight and Right Angle, Cable Mount

P50 Series



- Supports 28 or 30 AWG discrete or laminated wire cables
- Fully EMI shielded
- 20 to 100 position
- Mates to P50 series panel mount plug

Date Modified: May 15, 2003

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Physical

Insulation

Material: Glass filled Nylon
Flammability: UL 94V-0
Color: Black

Contact

Material: Phosphor Bronze

Plating

Underplating: Nickel
Wiping Area: See Ordering Information
Termination Area: Tin Alloy over Nickel
Wire Accomodation: 28 or 30 AWG Stranded Cable

Electrical

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

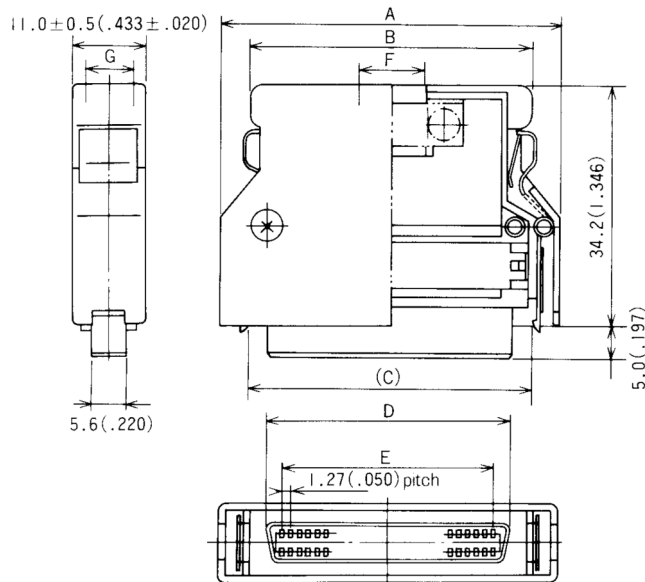
Environmental

Temperature Rating: -55°C to +85°C

3M™ Pak 50 I/O Socket .050" Straight and Right Angle, Cable Mount

P50 Series

Straight Cable Exit



Product Table / Dimensions for Straight Cable Exit

Contact Quantity	A	B	C	D	E	F	G
20	30.00 [1.181]	22.30 [0.878]	21.30 [0.839]	16.48 [0.649]	11.43 [0.450]	6.70 [0.264]	6.70 [0.264]
28	35.08 [1.381]	27.38 [1.078]	26.40 [1.039]	21.56 [0.849]	16.51 [0.650]	7.50 [0.295]	7.50 [0.295]
34	38.89 [1.531]	31.19 [1.228]	30.20 [1.189]	25.37 [0.999]	20.32 [0.800]	8.70 [0.343]	8.70 [0.343]
50	49.05 [1.931]	41.35 [1.628]	40.40 [1.591]	35.53 [1.399]	30.48 [1.200]	10.00 [0.394]	8.50 [0.335]
60	55.40 [2.181]	47.70 [1.878]	46.70 [1.839]	41.88 [1.649]	36.83 [1.450]	11.00 [0.433]	8.50 [0.335]
68	60.48 [2.381]	52.78 [2.078]	51.80 [2.039]	46.96 [1.849]	41.91 [1.650]	12.00 [0.472]	8.50 [0.335]
80	68.10 [2.681]	60.40 [2.378]	59.40 [2.339]	54.58 [2.149]	49.53 [1.950]	13.00 [0.512]	8.50 [0.335]

Ordering Information

Connector Order Code

P50 - XXX - XXX - XXXX

Contact Quantity
See Table

DDS = 28 AWG discrete wire
MDS = 28 AWG laminated wire
DDSC = 30 AWG discrete wire
MDSD = 30 AWG laminated wire

Plating Options:
TG = 10 μ" [0.25 μm] min. Gold
TG30 = 30 μ" [0.75 μm] min. Gold

Backshell Order Code

P50 - XXX - XXX - XXXX

Contact Quantity
See Table

STR = Straight Exit
HOZ = Right Angle Exit
Available only for 20 & 50 position

BSK = Straight Exit for 20-80 position
BSK1 = 20 pos. Right Angle Backshell
w/cable clamp for .193" diameter
BSK3 = 20 pos. Right Angle Backshell
W/cable clamp for .217-.228" diameter
BSK2 = 50 pos. Right Angle Backshell
W/cable clamp for .260" diameter
BSK4 = 50 pos. Right Angle Backshell
W/cable clamp for .283" diameter
BSK5 = 50 pos. Right Angle Backshell
W/cable clamp for .311" diameter
BSK1 = 100 pos. Straight Exit Backshell
Without Backpanel
BSK2 = 100 pos. Straight Exit Backshell to
Accommodate .039" Panel Thickness
BSK3 = 100 pos. Straight Exit Backshell to
Accommodate .063" Panel Thickness

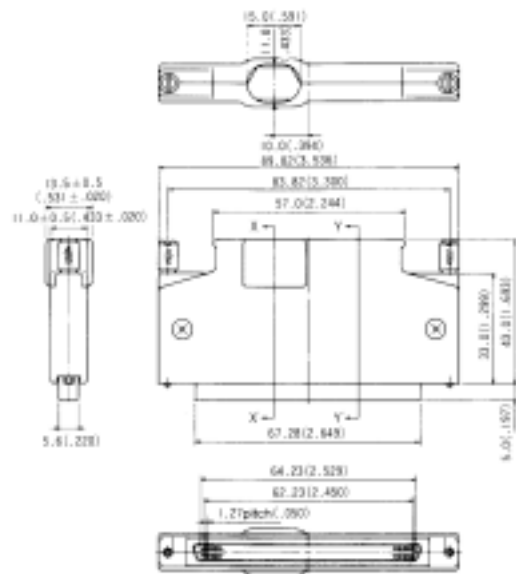
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3M™ Pak 50 I/O Socket

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Straight Cable Exit for 100 Pins



X-X Cross Section



Y-Y Cross Section

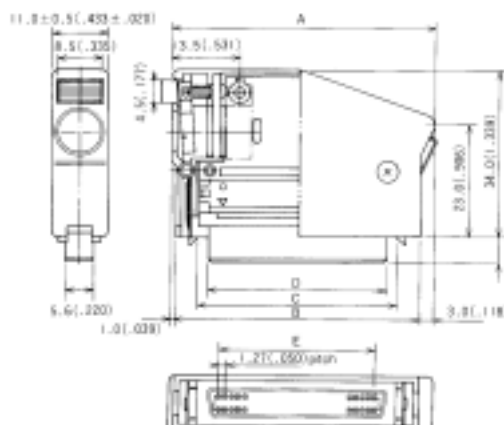


Right Angle Cable Exit

Available only for 20 & 50 Contacts

Product Table / Dimensions for Right Angle Cable Exit

Contact Quantity	A	B	C	D	E
20	34.00 [1.339]	30.00 [1.181]	21.30 [0.839]	16.48 [0.649]	11.43 [0.450]
50	53.05 [2.089]	49.00 [1.929]	40.35 [1.589]	35.53 [1.399]	30.48 [1.200]



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