

# 3M™ Pak 50 Wiremount Socket

.050" Wiremount Socket for .050" Pitch Cable

P50E Series



- P50E connector terminates two separate 1.27 mm (50 mil) pitch flat ribbon cables
- Accepts 28 AWG PVC cable
- Latch/eject mechanism maintains a secure connection
- Cable strain relief standard
- Finished cable assemblies to customer specifications
- Tooling available for customer cable assembly termination
- RoHS\* compliant version (EA) plating suffix available

Date Modified: March 1, 2006

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## Physical

### Insulation

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

### Contact

Material: Copper Alloy

### Plating

Underplating: Nickel  
Wiping Area: .25  $\mu\text{m}$  [10  $\mu\text{m}$ ] Gold  
Termination Area: Tin-lead or gold flash (RoHS compliant)  
Wire Accommodation: 28 AWG Stranded PVC Flat Ribbon Cable

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## Electrical

**Current Rating:** 0.5 A  
**Insulation Resistance:**  $10^3$  M $\Omega$  min. at 500 VDC  
**Withstanding Voltage:** 650 VAC for 1 minute

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## Environmental

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

\*\*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.

UL File No.: E68080

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# 3M™ Pak 50 Wiremount Socket

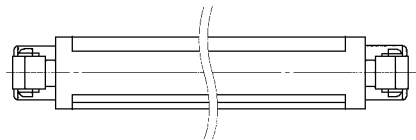
## .050" Wiremount Socket for .050" Pitch Cable

P50E Series

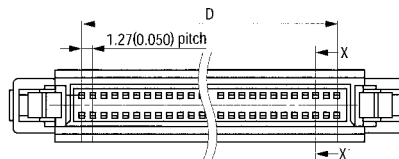
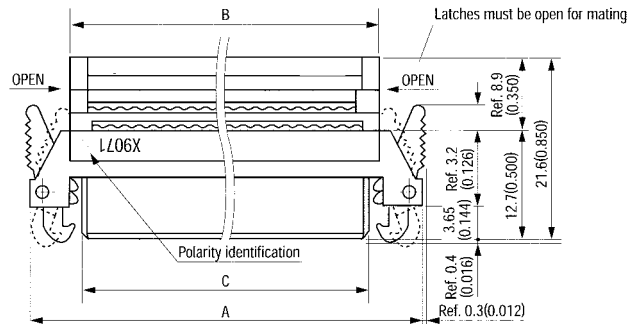
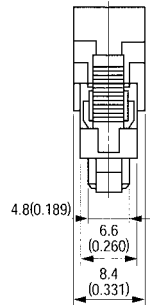
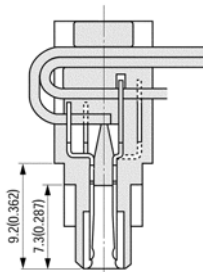
Product Table / Dimensions

| Contact Quantity | A                | B                | C                | D                |
|------------------|------------------|------------------|------------------|------------------|
| 20               | 27.83<br>(1.096) | 17.83<br>(0.702) | 15.43<br>(0.607) | 11.43<br>(0.450) |
| 26               | 31.64<br>(1.246) | 21.64<br>(0.852) | 19.24<br>(0.757) | 15.24<br>(0.600) |
| 30               | 34.18<br>(1.346) | 24.18<br>(0.952) | 21.78<br>(0.857) | 17.78<br>(0.700) |
| 32               | 35.45<br>(1.396) | 25.45<br>(1.002) | 23.05<br>(0.907) | 19.05<br>(0.750) |
| 34               | 36.72<br>(1.446) | 26.72<br>(1.052) | 24.32<br>(0.957) | 20.32<br>(0.800) |
| 40               | 40.53<br>(1.596) | 30.53<br>(1.202) | 28.13<br>(1.107) | 24.13<br>(0.950) |

| Contact Quantity | A                | B                | C                | D                |
|------------------|------------------|------------------|------------------|------------------|
| 50               | 46.88<br>(1.846) | 36.88<br>(1.452) | 34.48<br>(1.357) | 30.48<br>(1.200) |
| 52               | 48.15<br>(1.896) | 38.15<br>(1.502) | 35.75<br>(1.407) | 31.75<br>(1.250) |
| 60               | 53.23<br>(2.096) | 43.23<br>(1.702) | 40.83<br>(1.607) | 36.83<br>(1.450) |
| 68               | 58.31<br>(2.296) | 48.31<br>(1.902) | 45.91<br>(1.807) | 41.91<br>(1.650) |
| 80               | 65.93<br>(2.596) | 55.93<br>(2.202) | 53.53<br>(2.107) | 49.53<br>(1.950) |
| 100              | 78.63<br>(3.096) | 68.63<br>(2.702) | 66.23<br>(2.607) | 62.23<br>(2.450) |



X-X' Cross Section



Note: Strain relief standard.

### Ordering Information

**P50E - XXXS - XX**

Contact Quantity  
See Table

TG = 10u" [.25um] with tin-lead U slot  
EA = 10u" [.25um] gold with gold flash U slot  
(RoHS compliant)

Application tools: 3640 press (or equivalent), 3443-128 locator plate, 3442-126 platen.

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Minimum 10%  
Post-Consumer Fiber

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