



## 240-033 Micro-D Pin-Socket In-Line Filter Adapters



**Avoid Costly Redesign with Micro-D Filter Adapters.** Upgrade your existing cables and boxes to meet EMI requirements. These pin-socket adapters can be plugged into any standard M83513 connectors. Simply unplug your existing cable, install the filter adapter, and plug the cable into the adapter.

**In-Line Filter Adapters** feature gold plated TwistPin contacts, machined aluminum shells, and either Pi or C filter elements. These environmentally sealed adapters are designed to meet the requirements of MIL-DTL-83513.

### How To Order Micro-D In-Line Filter Adapters

| Sample Part Number |                                                                                                                 | 240-033 | -2 | -21 | PS | C | D | P |
|--------------------|-----------------------------------------------------------------------------------------------------------------|---------|----|-----|----|---|---|---|
| Series             | 240-033                                                                                                         |         |    |     |    |   |   |   |
| Shell Finish       | Aluminum Shell<br>1 - Cadmium<br>4 - Black Anodize<br>6 - Chem Film<br>2 - Nickel<br>5 - Gold<br>3 - Passivated |         |    |     |    |   |   |   |
| Contact Layout     | 9, 15, 21, 25, 31, 37 (See Table II)                                                                            |         |    |     |    |   |   |   |
| Contact Type       | PS - Pin/Socket                                                                                                 |         |    |     |    |   |   |   |
| Filter Type        | C - C Filter P - Pi Filter (See Table I)                                                                        |         |    |     |    |   |   |   |
| Filter Class       | A, B, C, D, E, F, G, J (See Table I)                                                                            |         |    |     |    |   |   |   |
| Hardware           | N - No Hardware P - Combination Jackscrew and Jackpost                                                          |         |    |     |    |   |   |   |

### Micro-D In-Line Filter Adapter Contact Arrangements

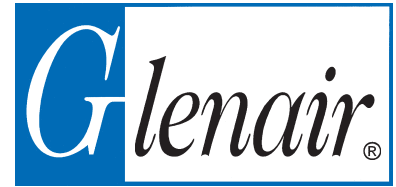
|               |               |               |               |
|---------------|---------------|---------------|---------------|
| <b>9</b><br>  | <b>15</b><br> | <b>21</b><br> | <b>25</b><br> |
| <b>31</b><br> | <b>37</b><br> |               |               |

Mating Face View of Pin Connector. Socket connectors have reversed cavity numbers.

Table I: Micro-D Filter Classes and Performance

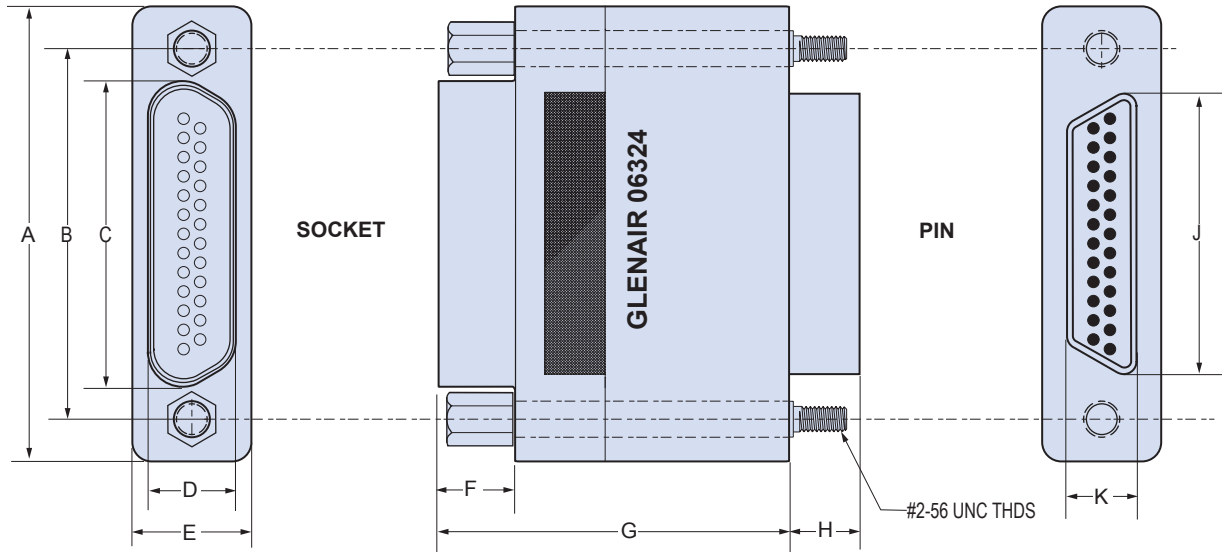
| Filter Class     | A           | B           | C           | D          | E         | F        | G       | J      |
|------------------|-------------|-------------|-------------|------------|-----------|----------|---------|--------|
| Capacitance (pF) |             |             |             |            |           |          |         |        |
| C Filter         | 19000-28000 | 16000-22500 | 9000-16500  | 4000-6000  | 1650-2500 | 400-650  | 200-300 | 35-60  |
| Pi Filter        | 38000-56000 | 32000-45000 | 18000-33000 | 8000-12000 | 3300-5000 | 800-1300 | 400-600 | 70-120 |

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Micro-D Filter

Table II: Dimensions



G

| Layout      | A Max. |       | B            |              | C Max. |       | D Max. |      | E Max. |      | F            |              | G Max. |       | H            |              | J Max. |       | K Max. |      |
|-------------|--------|-------|--------------|--------------|--------|-------|--------|------|--------|------|--------------|--------------|--------|-------|--------------|--------------|--------|-------|--------|------|
|             | In.    | mm.   | In.<br>±.003 | mm.<br>±0.08 | In.    | mm.   | In.    | mm.  | In.    | mm.  | In.<br>±.004 | mm.<br>±0.10 | In.    | mm.   | In.<br>±.004 | mm.<br>±0.10 | In.    | mm.   | In.    | mm.  |
| <b>9PS</b>  | .785   | 19.94 | .565         | 14.35        | .400   | 10.16 | .250   | 6.35 | .310   | 7.87 | .195         | 4.95         | 1.400  | 35.56 | .183         | 4.65         | .333   | 8.46  | .184   | 4.67 |
| <b>15PS</b> | .935   | 23.75 | .715         | 18.16        | .531   | 14.00 | .250   | 6.35 | .310   | 7.87 | .195         | 4.95         | 1.400  | 35.56 | .183         | 4.65         | .483   | 12.27 | .184   | 4.67 |
| <b>21PS</b> | 1.085  | 27.56 | .865         | 21.97        | .701   | 17.81 | .250   | 6.35 | .310   | 7.87 | .195         | 4.95         | 1.400  | 35.56 | .183         | 4.65         | .633   | 16.08 | .184   | 4.67 |
| <b>25PS</b> | 1.185  | 30.10 | .965         | 24.51        | .801   | 20.35 | .250   | 6.35 | .310   | 7.87 | .195         | 4.95         | 1.400  | 35.56 | .183         | 4.65         | .733   | 18.62 | .184   | 4.67 |
| <b>31PS</b> | 1.335  | 33.91 | 1.115        | 28.32        | .951   | 24.16 | .250   | 6.35 | .310   | 7.87 | .195         | 4.95         | 1.400  | 35.56 | .183         | 4.65         | .883   | 22.43 | .184   | 4.67 |
| <b>37PS</b> | 1.485  | 37.72 | 1.265        | 32.13        | 1.101  | 27.96 | .250   | 6.35 | .310   | 7.87 | .195         | 4.95         | 1.400  | 35.56 | .183         | 4.65         | 1.033  | 26.24 | .184   | 4.67 |