



## Shorting Plug Assembly 177-007



**Shorting Plug Assemblies** are Micro-D connectors with all contacts bussed/shorted together. Enclosed in a backshell and fitted with jackscrews, these shorting plugs provide ESD protection to sensitive instrumentation.

### Materials & Finishes

|                  |                                        |
|------------------|----------------------------------------|
| Shells           | Aluminum Alloy 6061 -T6                |
| Contacts         | Gold-Plated Copper Alloy               |
| Encapsulant      | Epoxy                                  |
| Insulators       | Glass-Filled LCP                       |
| Interfacial Seal | Fluorosilicone                         |
| Hardware         | 300 Series Stainless Steel, Passivated |

### How To Order Shorting Plugs

| Sample Part Number          | 177-007                                                                                                                                                      | -25 | S | 2 | H | F | 6 | -06 |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|---|---|---|---|-----|
| Series                      | 177-007                                                                                                                                                      |     |   |   |   |   |   |     |
| Connector Size              | 9, 15, 21, 25, 31, 37, 51, 51-2, 67, 69, 100 (Table I)                                                                                                       |     |   |   |   |   |   |     |
| Contact Type                | P - Pin S - Socket                                                                                                                                           |     |   |   |   |   |   |     |
| Shell Finish                | 1 - Cadmium, Yellow Chromate 2 - Electroless Nickel<br>4 - Black Anodize 5 - Gold 6 - Chem Film                                                              |     |   |   |   |   |   |     |
| Hardware Option             | B - Fillister Head Jackscrew H - Hex Head Jackscrew<br>E - Extended Jackscrew F - Jackpost, Female N - No Hardware                                           |     |   |   |   |   |   |     |
| Lanyard Option              | N - No Lanyard G - Flexible Nylon Rope R - Wire Rope, PVC Jacket<br>F - Wire Rope, Nylon Jacket H - Wire Rope, Fluoropolymer Jacket T - Wire Rope, No Jacket |     |   |   |   |   |   |     |
| Lanyard Length              | Length in One Inch Increments; Example: "6" equals six inches.                                                                                               |     |   |   |   |   |   |     |
| Ring Terminal Ordering Code | 01 - .140 (3.6) 04 - .197 (5.0) 05 - .167 (4.2) 06 - .125 (3.2) I.D. of Ring Terminal                                                                        |     |   |   |   |   |   |     |

Table I: Dimensions

| Size | A Max. |       | B Max. |       | C     |       | D Max. |       | E Max. |       | F Max. |       |
|------|--------|-------|--------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
|      | In.    | mm.   | In.    | mm.   | In.   | mm.   | In.    | mm.   | In.    | mm.   | In.    | mm.   |
| 9    | .850   | 21.59 | .370   | 9.40  | .565  | 14.35 | .600   | 15.24 | .450   | 11.43 | .410   | 10.41 |
| 15   | 1.000  | 25.40 | .370   | 9.40  | .715  | 18.16 | .720   | 18.29 | .570   | 14.48 | .580   | 14.73 |
| 21   | 1.150  | 29.21 | .370   | 9.40  | .865  | 21.97 | .840   | 21.34 | .690   | 17.53 | .740   | 18.80 |
| 25   | 1.250  | 31.75 | .370   | 9.40  | .965  | 24.51 | .900   | 22.86 | .750   | 19.05 | .850   | 21.59 |
| 31   | 1.400  | 35.56 | .370   | 9.40  | 1.115 | 28.32 | .960   | 24.38 | .810   | 20.57 | .980   | 24.89 |
| 37   | 1.550  | 39.37 | .370   | 9.40  | 1.265 | 32.13 | 1.000  | 25.40 | .850   | 21.59 | 1.130  | 28.70 |
| 51   | 1.500  | 38.10 | .410   | 10.41 | 1.215 | 30.86 | 1.030  | 26.16 | .880   | 22.35 | 1.080  | 27.43 |
| 51-2 | 1.910  | 48.51 | .370   | 9.40  | 1.615 | 41.02 | 1.030  | 26.16 | .880   | 22.35 | 1.510  | 38.35 |
| 67   | 2.310  | 58.67 | .370   | 9.40  | 2.015 | 51.18 | 1.030  | 26.16 | .880   | 22.35 | 1.880  | 47.75 |
| 69   | 1.810  | 45.97 | .410   | 10.41 | 1.515 | 38.48 | 1.030  | 26.16 | .880   | 22.35 | 1.380  | 35.02 |
| 100  | 2.235  | 56.77 | .460   | 11.68 | 1.800 | 45.72 | 1.090  | 27.69 | .940   | 23.88 | 1.470  | 37.34 |

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