

## SPECIFICATIONS

### MATERIALS:

|                   |  |
|-------------------|--|
| Pin Contacts:     | PhBr per ASTM B139, BeCu per ASTM B196 or B197, or Cu alloy  |
| Pin Diameter:     | .030" (.76mm)  |
| Socket Contacts:  |  |
| Contact Wires:    | BeCu per ASTM B196, or B197  |
| Termination:      | PhBr per ASTM B139 or Cu alloy   |
| Support Elements: | Cu alloy   |
| SMT Leads:        | PhBr per ASTM B139   |
| Hardware:         | Corrosion resistant steel per ASTM A582 ('D' shaped guide receptacles are BeCu per ASTM B196 or B197) or Cu alloy      |
| Insulator:        | Modified polyphenylene sulfide per MIL-M-24519, Type GST-40F<br>Diallyl Phthalate per ASTM D5948 (Not for New Designs) |
| Pin Shields:      | Aluminum 5052-H32 per QQ-A-250/8   |

### FINISHES:

|                   |   |
|-------------------|---|
| Pin Contacts:     | Gold per ASTM B488 Type II, Class 1.27, Code C over Nickel, 0.000050 min., per MIL-DTL-55302 over Copper per SAE AMS 2418 or ASTM B734  |
| Socket Contacts:  |   |
| Contact Wires:    | Gold per ASTM B488 Type II, Class 1.27, Code C over Nickel, 0.000050 min., per MIL-DTL-55302 over Copper per SAE AMS 2418 or ASTM B734  |
| Termination:      | Gold per ASTM B488, Class 0.50, Grade C over Nickel, 0.000050 min., per MIL-DTL-55302 over Copper per SAE AMS 2418 or ASTM B734 or solder dip over Nickel, 0.000050 min., per MIL-DTL-55302 over Copper per SAE AMS 2418 or ASTM B734 |
| Support Elements: | Nickel, 0.000050 min., over Copper per SAE AMS 2418 or ASTM B734  |
| SMT Leads:        | Tin/Lead per SAE-AMS-P-81728  |
| Hardware:         | Passivate per SAE-AMS2700 except BeCu hardware to be Nickel plate, 0.000050 min.  |
| Pin Shields:      | Black Anodize per MIL-A-8625, Type II, Class 2  |

### PERFORMANCE:

|                        |   |
|------------------------|---|
| Current Rating:        | 5* amp continuous (higher ratings may be supported-contact factory)                             |
| Insulation Resistance: | 5000 megaohms min. – EIA-364-21 & MIL-DTL-55302 (par. 4.5.8)                                    |
| Contact Resistance:    | 8 milliohms max, - EIA-364-06 & MIL-DTL-55302 (par. 4.5.5)                                      |
| Test Voltage (DWV):    | 1000 VAC RMS @ sea level - EIA-364-20 & MIL-DTL-55302 (par. 4.5.7.1)<br>300VAC RMS @ 70,000 ft. |
| Temperature:           | -65°C to +125°C (-86°F to +257°F)   |
| Mating Force:          | 0.15 lbs. x number of contacts, max. - MIL-STD-55302 (par. 4.5.4)                               |
| De-mating Force:       | 0.04 lbs. x number of contacts, min. - MIL-STD-55302 (par. 4.5.4)                               |
| Contact Life:          | 100,000 mating cycles – Exceeds MIL-DTL-55302 (par. 4.5.9)                                      |
| Solderability:         | IPC/EIA J-STD-002, Category 3   |
| Humidity:              | IAW EIA-364-31, Method IV, except 7A & 7B (not required)  |
| Vibration:             | IAW EIA-364-28 & MIL-DTL-55302 (par. 4.5.10)  |
| Shock:                 | IAW EIA-364-27 & MIL-DTL-55302 (par. 4.5.14)  |
| Salt Spray:            | IAW EIA-364-26 & MIL-DTL-55302 (par. 4.5.11)  |
| Temperature Cycling:   | IAW EIA-364-32 & MIL-DTL-55302 (par. 4.5.13)  |

### DIMENSIONS:

Catalog product dimensions are nominal. For linear and positional tolerances, contact factory.

\* Ampacity ratings shown are derated in accordance with the published military specifications. For stand-alone, full service ratings, supported by test data, please refer to IEH's Contacts Catalog, or contact the factory.

All information contained herein is believed to be reliable as of the date of publication, but is subject to change without notice. Current product drawings and specifications are available upon request from IEH.

IEH warrants its products to be free of defects affecting normal use. If any shipment is found to be defective we will accept return for repair or replacement at our option within one year of shipment. IEH is not responsible for incidental or consequential damages arising out of the use of our products.