

280-047S combo cable socket connectors with standard mounting flange, crimp termination



Combo HiPer-D® socket connectors feature size #20 signal contacts and size #8 power or coax contacts. **Size #8 contacts are ordered separately.** The HiPer-D® features a rugged machined aluminum shell, waterproof sealing and optional ground springs for improved resistance to electromagnetic interference. Size #20 contacts are packaged with connector. Terminate contacts with crimp tools purchased separately. Glass-reinforced thermoset epoxy insulators, copper alloy retention clips. Fluorosilicone rear grommet meets IP67 immersion requirement. 1000 VAC, 7.5 Amps (#20), up to 40 Amps with size #8 power contacts.

| How To Order | |
|---------------------------------------|---|
| Sample Part Number | 280-047S 3-5W5 MT P |
| Basic Part Number | 280-047S |
| Shell Size-Contact Arrangement | See Shell Size - Contact Arrangements Table |
| Shell Finish | ME = Electroless Nickel MT = Nickel-PTFE JF = Cadmium with Yellow Chromate Z2 = Gold Z1 = Passivated Stainless Steel |
| Mating Hardware | N = No Hardware (Through-Hole) P = #4-40 Female Jackpost L = Jackscrew, Hex Head, Low Profile K = Jackscrew, Slot Head, Extended Length S = Screwlock, Male, Hex Head, Low Profile T = Screwlock, Male, Slot Head, Extended Length |

| Contact Arrangements | | |
|-------------------------|----------------------|----|
| Shell Size-Contact Arr. | Contact Size and Qty | |
| | #20 | #8 |
| 1-2W2 | | 2 |
| 1-5W1 | 4 | 1 |
| 2-3W3 | | 3 |
| 2-7W2 | 5 | 2 |
| 2-11W1 | 10 | 1 |
| 3-5W5 | | 5 |
| 3-9W4 | 5 | 4 |
| 3-13W3 | 10 | 3 |
| 3-17W2 | 15 | 2 |
| 3-21W1 | 20 | 1 |
| 4-8W8 | | 8 |
| 4-13W6 | 7 | 6 |
| 4-17W5 | 12 | 5 |
| 4-21WA4 | 17 | 4 |
| 4-25W3 | 22 | 3 |
| 4-27W2 | 25 | 2 |
| 5-24W7 | 17 | 7 |
| 5-36W4 | 32 | 4 |
| 5-43W2 | 41 | 2 |
| 5-47W1 | 46 | 1 |

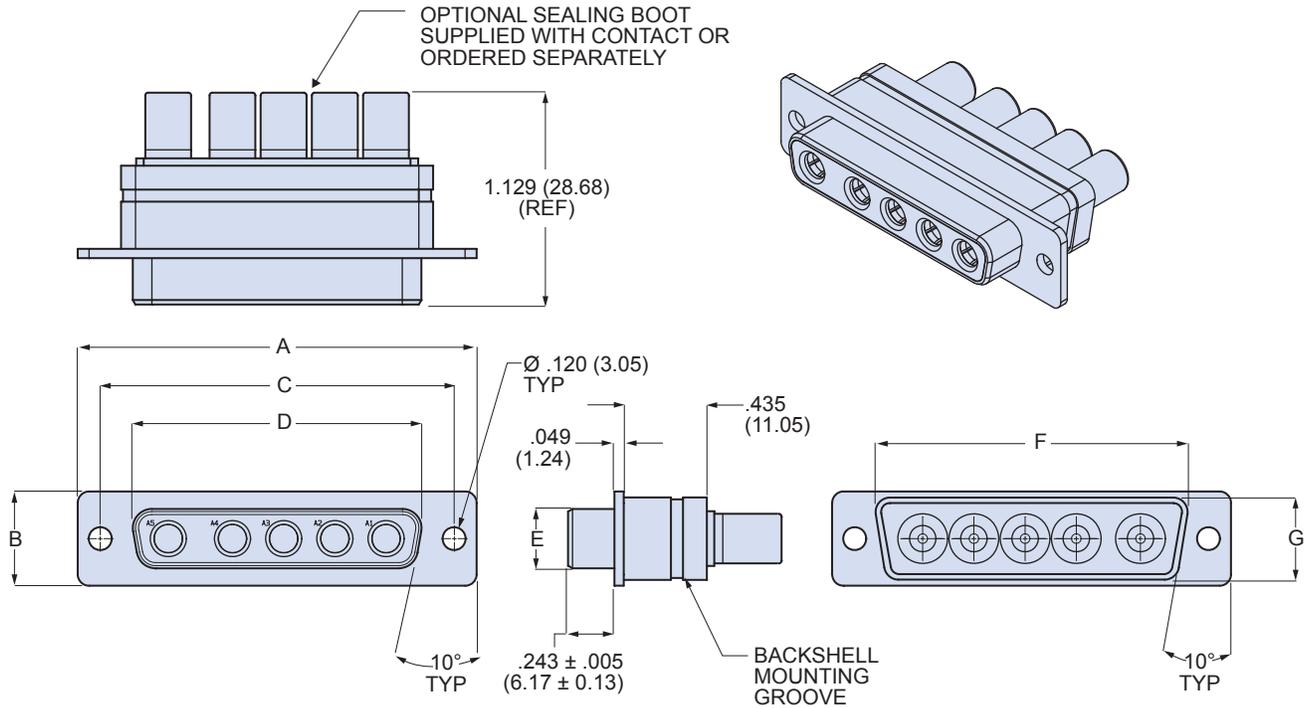
| Mating Hardware | |
|---|---|
| N Thru-Hole No Hardware | P Female Jackpost |
| S Captive Screwlock, Hex Head | L Captive Jackscrew, Hex Head |
| K Slot-Head Extended Jackscrew | T Slot-Head Extended Captive Screwlock |

| Specifications | |
|-----------------------|--------------------------|
| Current Rating | #20 7.5 AMPS, #8 40 AMPS |
| Test Voltage | 1000 VAC RMS |
| Insulation Resistance | 5000 megohms minimum |
| Operating Temperature | -65° C. to +200° C. |
| Ingress Protection | IP 67 |
| Shock | 300 g. |
| Vibration, Random | 43.92 g. |

| Materials and Finishes | |
|------------------------|-----------------------------------|
| Shell | Aluminum alloy |
| Contacts | Copper alloy, 50 microinches gold |
| Insulators | Thermoset epoxy |
| Retention Clips | Copper alloy |
| Grommet | Fluorosilicone rubber |
| Hardware | 300 series stainless steel |

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280-047S DIMENSIONS



| | | Dimensions | | | | | | | | | | | | | |
|------------|-----------|------------|-----------|-----------|---------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Shell Size | A | | B | | C Basic | | D | | E | | F | | G | | |
| | in ± .015 | mm ± 0.38 | in ± .015 | mm ± 0.38 | in. | mm | in ± .005 | mm ± 0.13 | |
| 1 | 1.213 | 30.81 | .494 | 12.55 | .984 | 24.99 | .643 | 16.33 | .311 | 7.90 | .769 | 19.53 | .432 | 10.97 | |
| 2 | 1.541 | 39.14 | .494 | 12.55 | 1.312 | 33.32 | .971 | 24.66 | .311 | 7.90 | 1.093 | 27.76 | .432 | 10.97 | |
| 3 | 2.088 | 53.04 | .494 | 12.55 | 1.852 | 47.04 | 1.511 | 38.38 | .311 | 7.90 | 1.635 | 41.53 | .432 | 10.97 | |
| 4 | 2.729 | 69.32 | .494 | 12.55 | 2.500 | 63.50 | 2.159 | 54.84 | .311 | 7.90 | 2.282 | 57.96 | .432 | 10.97 | |
| 5 | 2.635 | 66.93 | .605 | 15.37 | 2.406 | 61.11 | 2.054 | 52.17 | .423 | 10.74 | 2.188 | 55.58 | .544 | 13.82 | |

NOTES

- See [About Series 28 HiPer-D® Shell Plating Options](#) for additional shell material and finish options. Glenair offers the industry's widest selection of plating options with no minimum order quantities or setup charges.
- For panel cutouts, refer to [Panel Cutouts and Printed Circuit Board Footprints](#).
- Connectors are supplied with size #20 crimp contacts per M39029. Contacts are not installed. Refer to [HiPer-D® Contacts and Tools](#) section for contact part numbers, specifications, crimp tool information, and insertion/extraction tools.
- Size 8 contacts are ordered separately.** Refer to [HiPer-D® Contacts and Tools](#) section for contact ordering information, specifications, crimp tool information, and insertion/extraction tools.
- Combo HiPer-D® connectors meet the applicable requirements of MIL-DTL-24308 and are intermateable with standard non-environmental D Subminiature connectors with corresponding contact arrangements and type. **Size 8 contacts from other manufacturers cannot be installed in HiPer-D® connectors.**
- Additional electrical, mechanical and environmental specifications are listed in [HiPer-D® Product Specification](#).

Mouser Electronics

Authorized Distributor

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