

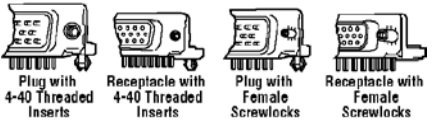
AMPLIMITE PCB Connectors

HD-20 Front Metal-Shell Right-Angle Stacked, Series II with Boardlocks and Threaded Inserts

Housings: 94V-0 thermoplastic, black. Front Metal Shells and Brackets: Steel, tin plated. Contacts: Pins — Brass; Sockets — Phosphor bronze.

| Stock No. | Mfr.'s Type | No. of Pos. | Description | EACH  |         |         |
|-----------|-------------|-------------|-------------|-------|---------|---------|
|           |             |             |             | 1-99  | 100-499 | 500-999 |
| 512-0124  | 750593-4    | 18          | Plug        | 8.52  | 7.67    | 6.95    |
| 512-0195  | 750585-4    | 18          | Receptacle  | 8.52  | 7.67    | 6.39    |
| 512-0127  | 750597-4    | 25          | Plug        | 12.31 | 11.08   | 9.23    |
| 512-0196  | 750589-4    | 25          | Receptacle  | 12.08 | 10.87   | 9.06    |

AMPLIMITE III, HD-20 Front Metal-Shell Right Angle 0.318" PCB Footprint



Housing: Thermoplastic, 94V-0 rated, compatible with standard wave solder, vapor phase, and infra red reflow (SMT), black. Shell: Steel, tin plated. Contacts: Plugs — Brass; Receptacles — Phosphor bronze.

Plugs with Threaded Inserts

| Stock No. | Mfr.'s Type | No. of Pos. | Plating Code* | EACH |         |         |
|-----------|-------------|-------------|---------------|------|---------|---------|
|           |             |             |               | 1-99 | 100-499 | 500-999 |
| 512-0228  | 748879-2    | 9           | B             | .87  | .78     | .65     |

Plugs with Fixed Female Screwlocks

|          |          |   |   |      |      |      |
|----------|----------|---|---|------|------|------|
| 512-0231 | 748959-2 | 9 | B | 4.42 | 3.98 | 3.32 |
|----------|----------|---|---|------|------|------|

Receptacles with Threaded Inserts

|          |          |    |   |      |      |      |
|----------|----------|----|---|------|------|------|
| 512-0239 | 748875-2 | 9  | B | 2.17 | 1.95 | 1.63 |
| 512-0250 | 748877-2 | 25 | B | 2.76 | 2.49 | 2.07 |

Receptacles with Fixed Female Screwlocks

|          |          |    |   |      |      |      |
|----------|----------|----|---|------|------|------|
| 512-0237 | 748955-1 | 9  | A | 2.58 | 2.32 | 1.93 |
| 512-0245 | 748956-1 | 15 | A | 1.80 | 1.62 | 1.35 |

\*Plating Code: A — Duplex plated .00003" min. gold on the mating end, tin-lead on solder end, all over nickel underplating; B — Duplex plated gold flash on the mating end, tin-lead on solder end, all over nickel underplating.

HD-22 Front Metal-Shell Straight Posted with 4-40 Threaded Inserts

Shell: Steel, tin-plated. Insert: Thermoplastic, 94V-0, black. Contacts: Pins — Brass; Sockets — Phosphor Bronze, all plated.

| Stock No. | Mfr.'s Type | No. of Pos. | Description | EACH  |         |         |
|-----------|-------------|-------------|-------------|-------|---------|---------|
|           |             |             |             | 1-99  | 100-499 | 500-999 |
| 512-0299  | 749798-1    | 9           | Plug        | 8.70  | 7.83    | 6.53    |
| 512-0301  | 747786-6*   | 37          | Receptacle  | 30.28 | 27.25   | 22.71   |

\*0.125" post length for PCB 0.062-0.093" max.

Unshielded Cable Clamps with Slide-On Back Covers

Material and Finish: Black thermoplastic. Each kit includes two identical cover halves which snap together over the connector.

| Stock No. | Mfr.'s Type | No. of Pos. | EACH |         |         |
|-----------|-------------|-------------|------|---------|---------|
|           |             |             | 1-99 | 100-499 | 500-999 |
| 512-8917  | 745530-1    | 9           | 1.16 | 1.05    | .87     |
| 512-0359  | 745530-2    | 15          | 4.14 | 3.72    | 3.10    |
| 512-0361  | 745530-3    | 25          | 4.20 | 3.78    | 3.15    |

HD-20 Solder Cup Shielding Hardware Enclosure Kits

Connector Shell: Steel, tin plated. Connector Insert: 94V-0 rated thermoplastic, black. Shields: Steel, tin plated. Contacts: Phosphor bronze, duplex plated with gold flash on mating end, tin-lead on solder cup, with entire contact nickel underplated.

| Stock No.   | Mfr.'s Type | No. of Pos. | EACH |         |         |
|-------------|-------------|-------------|------|---------|---------|
|             |             |             | 1-99 | 100-499 | 500-999 |
| 512-0309    | 748046-1    | 9           | 6.48 | 5.83    | 4.86    |
| 512-0313    | 748048-1    | 15          | 7.21 | 6.49    | 5.41    |
| 512-0319    | 748050-1    | 25          | 8.18 | 7.36    | 6.14    |
| Receptacles |             |             |      |         |         |
| 512-0311    | 748047-1    | 9           | 7.00 | 6.30    | 5.25    |
| 512-0317    | 748049-1    | 15          | 7.87 | 7.08    | 5.90    |
| 512-0320    | 748051-1    | 25          | 8.95 | 8.06    | 6.71    |

AMPLIMITE 0.050 Series Panel Connectors



AMPLIMITE 0.050 Series III, Cable Plug Connectors, Shielded and Unshielded Assembled Covers

Housing and Covers: Thermoplastic, 94V-0, black. Shell: Steel, plated tin-nickel alloy over nickel over copper (shielded only). Contacts: Phosphor bronze, plated gold on mating end, tin-lead on termination end, all nickel underplated. Shielded connectors require backshell kits (shown below) for complete assembly.

| Stock No. | Mfr.'s Type | No. of Pos. | Description | EACH  |         |         |
|-----------|-------------|-------------|-------------|-------|---------|---------|
|           |             |             |             | 1-99  | 100-499 | 500-999 |
| 512-0382  | 749111-4    | 50          | Shielded    | 4.83  | 4.40    | 4.03    |
| 512-0393  | 749925-3    | 50          | Unshielded  | 5.87  | 5.10    | 4.25    |
| 512-0385  | 749111-6    | 68          | Shielded    | 7.50  | 6.75    | 5.63    |
| 512-0395  | 749925-5    | 68          | Unshielded  | 1.48  | 1.33    | 1.11    |
| 512-0387  | 749111-7    | 80          | Shielded    | 16.82 | 15.14   | 12.61   |
| 512-0390  | 749111-8    | 100         | Shielded    | 20.72 | 18.65   | 15.54   |

AMPLIMITE 0.050 Series III, Backshell Kits

Backshell Kits with Jackscrews

Jackscrews: Steel, plated black zinc. 2-56 Screws: Stainless steel. Backshell: Zinc, plated nickel over copper. Strain Relief Staple: Steel, plated tin-over nickel.

| Stock No. | Mfr.'s Type | No. of Pos. | Style | EACH  |         |         |
|-----------|-------------|-------------|-------|-------|---------|---------|
|           |             |             |       | 1-99  | 100-499 | 500-999 |
| 512-0414  | 749080-1    | 50          | —     | 10.63 | 9.57    | 7.97    |
| 512-0418  | 749081-1    | 100         | —     | 17.23 | 15.50   | 12.92   |
| 512-0441  | 749854-1*   | 100         | —     | 17.23 | 15.50   | 12.92   |

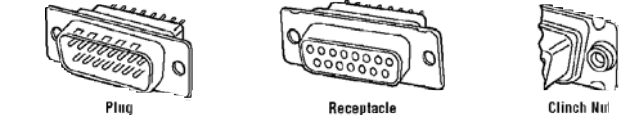
\*749854-1 slightly larger than 749081-1.

Backshell Kits with Spring Latches

Spring Latches: Stainless steel. 2-56 Screws: Stainless steel. Backshell: Zinc, plated nickel over copper. Strain Relief Staple: Steel, plated tin-over nickel.

|          |          |     |                  |       |       |       |
|----------|----------|-----|------------------|-------|-------|-------|
| 512-0445 | 749889-3 | 50  | Straight Style B | 5.64  | 5.08  | 4.23  |
| 512-0447 | 749196-2 | 80  | Straight Style A | 10.25 | 9.22  | 7.68  |
| 512-0448 | 749197-1 | 100 | Straight Style A | 15.08 | 13.87 | 11.56 |

HD-20 Full Metal-Shell Straight Posted Connectors



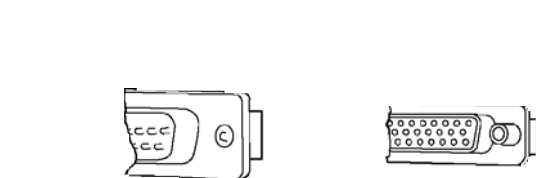
- All Plugs and Receptacles Are Preloaded with Size 200F Posted Contacts
- Mates with HD-20 Metal-Shell IDC Connectors; HDF-20 Low Profile Metal-Shell Connectors; HD-20 Crimp Snap-in Contact Connectors

Shell: Steel, tin-plated. Insert: Thermoplastic 94V-0, black. Contacts: Pins — Brass; Sockets — Phosphor bronze, all plated.

| Stock No. | Mfr.'s Type | No. of Pos. | Plating Code* | Description | Type                   | EACH  |         |         |
|-----------|-------------|-------------|---------------|-------------|------------------------|-------|---------|---------|
|           |             |             |               |             |                        | 1-99  | 100-499 | 500-999 |
| 512-2489  | 745410-1    | 9           | A             | Plug        | With grounding indents | 4.07  | 3.66    | 3.05    |
| 512-2491  | 745183-1    | 9           | A             | Receptacle  | With mounting holes    | 5.30  | 4.77    | 3.98    |
| 512-2493  | 747190-2    | 9           | A             | Receptacle  | With clinch nuts       | 5.24  | 4.71    | 3.93    |
| 512-2495  | 745183-2    | 9           | B             | Receptacle  | With mounting holes    | 5.05  | 4.55    | 3.79    |
| 512-2497  | 747190-1    | 9           | B             | Receptacle  | With clinch nuts       | 7.19  | 6.47    | 5.39    |
| 512-2499  | 745410-7    | 9           | A             | Plug        | With grounding indents | 5.19  | 4.67    | 3.89    |
| 512-0604  | 745183-7    | 9           | A             | Receptacle  | With mounting holes    | 5.30  | 4.77    | 3.98    |
| 512-2500  | 745411-1    | 15          | A             | Plug        | With grounding indents | 6.41  | 5.77    | 4.81    |
| 512-2506  | 745185-1    | 15          | A             | Receptacle  | With mounting holes    | 6.64  | 5.98    | 4.98    |
| 512-2512  | 745820-1    | 15          | A             | Receptacle  | With clinch nuts       | 8.73  | 7.85    | 6.54    |
| 512-2518  | 745820-2    | 15          | B             | Receptacle  | With clinch nuts       | 8.32  | 7.49    | 6.24    |
| 512-2522  | 745185-7    | 15          | A             | Receptacle  | With mounting holes    | 4.68  | 4.25    | 3.90    |
| 512-2523  | 745412-1    | 25          | A             | Plug        | With grounding indents | 8.45  | 7.61    | 6.34    |
| 512-2527  | 745187-1    | 25          | A             | Receptacle  | With mounting holes    | 6.32  | 5.69    | 4.74    |
| 512-2529  | 745886-1    | 25          | A             | Receptacle  | With clinch nuts       | 7.28  | 6.55    | 5.46    |
| 512-2530  | 745886-2    | 25          | B             | Receptacle  | With clinch nuts       | 10.22 | 9.20    | 7.67    |
| 512-2531  | 745412-7    | 25          | A             | Plug        | With grounding indents | 8.45  | 7.61    | 6.34    |
| 512-2533  | 745187-7    | 25          | A             | Receptacle  | With mounting holes    | 8.82  | 7.94    | 6.61    |
| 512-2535  | 745187-8    | 25          | B             | Receptacle  | With mounting holes    | 8.09  | 7.28    | 6.07    |
| 512-2537  | 745189-1    | 37          | A             | Receptacle  | With mounting holes    | 12.87 | 11.59   | 9.66    |
| 512-2539  | 745189-7    | 37          | A             | Receptacle  | With mounting holes    | 13.99 | 12.59   | 10.49   |
| 512-2541  | 745414-1    | 50          | A             | Plug        | With grounding indents | 16.52 | 14.87   | 12.39   |
| 512-2543  | 745191-1    | 50          | A             | Receptacle  | With mounting holes    | 16.41 | 14.77   | 12.31   |
| 512-1950  | 747302-1    | 50          | A             | Receptacle  | With clinch nuts       | 16.85 | 15.32   | 14.04   |

\*Plating Code: A — 0.000030" (0.00076 mm) min. gold on mating end, tin-lead on termination end, all over 0.000050" (0.00127 mm) min. nickel underplating; B — 0.000030" (0.00076 mm) min. gold flash on mating end, tin-lead on termination end, all over 0.000050" (0.00127 mm) min. nickel underplating.

HD-20 Front Metal Shell Straight Posted Connector with ACTION PIN Contacts



Housings: 94V-0 thermoplastic, black. Threaded Inserts: Brass unplated. Female Screwlocks: Zinc. ACTION PIN Contacts: Copper alloy.

| Stock No. | Mfr.'s Type | No. of Pos. | Plating Code* | Description | Type                    | EACH  |         |         |
|-----------|-------------|-------------|---------------|-------------|-------------------------|-------|---------|---------|
|           |             |             |               |             |                         | 1-99  | 100-499 | 500-999 |
| 512-2463  | 786830-1    | 9           | A             | Plug        | Threaded Inserts        | 9.84  | 8.85    | 7.38    |
| 512-2465  | 787176-1    | 9           | A             | Plug        | Fixed Female Screwlocks | 10.38 | 9.34    | 7.79    |
| 512-0199  | 747099-2    | 9           | A             | Receptacle  | Threaded Inserts        | 5.35  | 3.85    | 2.92    |
| 512-2467  | 747089-2    | 9           | A             | Receptacle  | Standard Mounting Holes | 8.73  | 7.85    | 6.54    |
| 512-2469  | 787177-1    | 15          | A             | Plug        | Fixed Female Screwlocks | 12.74 | 11.46   | 9.55    |
| 512-2471  | 747140-2    | 15          | A             | Receptacle  | Standard Mounting Holes | 9.97  | 8.98    | 7.48    |
| 512-2473  | 748146-4    | 25          | A             | Plug        | Threaded Inserts        | 12.97 | 11.67   | 9.72    |
| 512-2475  | 748146-6    | 25          | A             | Plug        | Fixed Female Screwlocks | 11.65 | 10.49   | 8.74    |
| 512-2477  | 745922-2    | 25          | A             | Receptacle  | Standard Mounting Holes | 10.29 | 9.26    | 7.72    |
| 512-2479  | 745928-1    | 25          | B             | Receptacle  | Fixed Female Screwlocks | 10.36 | 9.32    | 7.77    |
| 512-2481  | 786534-1    | 37          | A             | Plug        | Threaded Inserts        | 17.23 | 15.50   | 12.92   |
| 512-2483  | 747714-2    | 37          | A             | Receptacle  | Threaded Inserts        | 10.68 | 9.51    | 8.01    |
| 512-2485  | 747715-2    | 37          | A             | Receptacle  | Fixed Female Screwlocks | 10.49 | 9.45    | 7.87    |
| 512-0213  | 747144-2    | 50          | A             | Receptacle  | Threaded Inserts        | 16.16 | 11.96   | 9.12    |
| 512-2487  | 747143-2    | 50          | A             | Receptacle  | Standard Mounting Holes | 17.63 | 15.87   | 13.23   |

\*Plating Code: A — 0.000030" (0.00076 mm) gold on mating end, tin-lead on ACTION PIN post surface, with entire contact 0.000050" (0.00127 mm) min. nickel underplated; B — Gold flash on mating end, tin-lead on ACTION PIN post surface, with entire contact 0.000050" (0.00127 mm) min. nickel underplated.