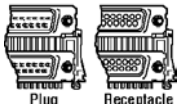


AMPLIMITE PCB Connectors

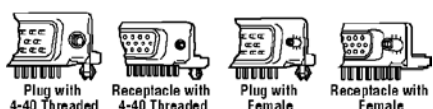
HD-20 Front Metal-Shell Right-Angle Stacked, Series II with Boardlocks and Threaded Inserts



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

| Stock No. | Mfr.'s Type | No. of Pos. | Plating Code* | 1-99 | 100-499 | 500-999 |
|-----------|-------------|-------------|---------------|------|---------|---------|
| 512-0231 | 748959-2 | 9 | B | 4.42 | 3.98 | 3.32 |

Receptacles with Threaded Inserts

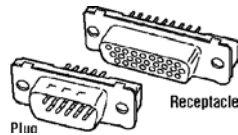
| Stock No. | Mfr.'s Type | No. of Pos. | Plating Code* | 1-99 | 100-499 | 500-999 |
|-----------|-------------|-------------|---------------|------|---------|---------|
| 512-0239 | 748875-2 | 9 | B | 2.17 | 1.95 | 1.63 |
| 512-0250 | 748877-2 | 25 | B | 2.76 | 2.49 | 2.07 |

Receptacles with Fixed Female Screwlocks

| Stock No. | Mfr.'s Type | No. of Pos. | Plating Code* | 1-99 | 100-499 | 500-999 |
|-----------|-------------|-------------|---------------|------|---------|---------|
| 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.

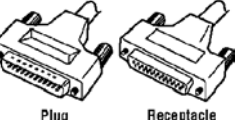
Unshielded Cable Clamps with Side-On Back Covers

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

| Stock No. | Mfr.'s Type | No. of Pos. | 1-99 | 100-499 | 500-999 |
|-----------|-------------|-------------|------|---------|---------|
| 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 |

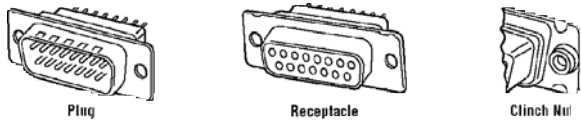
*749854-1 slightly larger than 749081-1.

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.

| Stock No. | Mfr.'s Type | No. of Pos. | Style | 1-99 | 100-499 | 500-999 |
|-----------|-------------|-------------|------------------|-------|---------|---------|
| 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 20DF Posted Contacts
▶ Mates with HDE-20 Metal-Shell IDC Connectors; HDF-20 Low Profile Metal-Shell Connectors; HDP-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 | 3.50 |
| 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 | 747090-2 | 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 | 10.48 | 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 underplating; B — Gold flash on mating end, tin-lead on ACTION PIN post surface, with entire contact 0.000050" (0.00127 mm) min. nickel underplating.