

**Input/Output (I/O) Connectors**

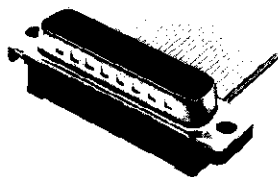
**Subminiature D Connectors**  
**HDF-20 for Flat Ribbon**  
**Cable (AMPLIMITE)**



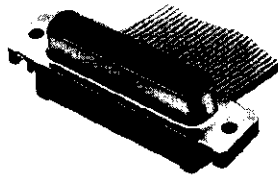
**Material:**

**Front Shell** – Steel, tin plated  
**Housing, Cover & Cable Stabilizer**– Thermoplastic, 94V-0, black  
**Threaded Inserts** – Brass, unplated  
**Contacts** – Phosphor bronze, duplex plated .00030 [0.00076] min. gold on mating end, .000100-.000200 [0.00254-.0.00508] or ght tin-lead on termination end with entire contact underplatec .000650 [0.00127] min. nickle

**Plug — Low Profile Metal Shell**



**Receptacle — Low Profile Metal Shell**



**Product Facts:**

- Available in all 5 standard shell sizes
- Visual inspection of termination possible
- Fluted cover provides positive alignment of cable prior to termination
- Wide range of application tooling
- Patented insulation displacement contact latches into the connector cover
- Contact design provides a “gas-tight” termination
- Contacts accept 28 AWG [0.08mm<sup>2</sup>] solid and stranded, and 26 AWG [0.15mm<sup>2</sup>] solid and stranded round conductor flat ribbon cable on .050 [1.27] centers
- Qualified to Battelle Level III environment

No. of Pos. & (Shell Size)	Cable Stabilizer	Plug Part Nos.	
		With Standard Mounting Holes	With Threaded Inserts
9 (1)	747275-4	747306-4	747043-4
15 (2)	747275-3	747306-3	747043-3
25 (3)	747275-2	747306-2	747043-2
37 (4)	747275-1	747306-1	747043-1
50 (5)	—	—	746790-1

**Note:** All assemblies are supplied with housing and cover pre-assembled. Optional cable stabilizer must be ordered separately.

No. of Pos. & (Shell Size)	Cable Stabilizer	Receptacle Part Nos.	
		With Standard Mounting Holes	With Threaded Inserts
9 (1)	747275-4	747303-4	747052-4
15 (2)	747275-3	747303-3	747052-3
25 (3)	747275-2	747303-2	747052-2
37 (4)	747275-1	747303-1	747052-1
50 (5)	—	—	746789-1

**Note:** All assemblies are supplied with housing and cover pre-assembled. Optional cable stabilizer must be ordered separately.



**Subminiature D Connectors**  
**Right Angle Posted**  
**(AMPLIMITE)**

**Material:**

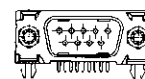
**Housing** – Thermoplastic, 94V-0, black  
**Front Metal-Shell** – Steel, plated .000150 [0.00381] min. tin over .000100 [0.00254] min. copper  
**Contacts** – Pins: Brass, Sockets: Phosphor bronze  
**Plating:**  
**A.** [.000015] [0.00038] gold on mating end, tin-lead on solder end, all nickel underplated  
**B.** Gold flash on mating end, tin-lead on solder end, all nickel underplated  
**Boardlocks and 4-40 Threads** – Steel, integral part of front metal-shell  
**Female Screwlocks** – Zinc, clear chromate

**AMPLIMITE 2000 .318 [8.08] PCB Footprint**

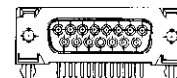
No. of Pos	Plating Code	Part Numbers	
		With 4-40 Inserts <sup>1</sup>	With Female Screwlocks <sup>1</sup>
9 Plug	A	787203-2	—
	B	787203-3 <sup>2</sup>	—
15 Receptacle	A	787201-2	787650-4 <sup>2</sup>
	B	787201-1	—
25 Receptacle	A	787201-4 <sup>2</sup>	—
	A	787202-2	787652-2
	B	—	787652-3 <sup>2</sup>
	B	787202-1	—
	A	787202-4 <sup>2</sup>	787652-4 <sup>2</sup>

<sup>1</sup> Solder tail length is .125 [3.18] unless otherwise noted.

<sup>2</sup> Solder tail length is .085 [2.16].



9 Position Plug



15 Position Receptacle



25 Position Receptacle



**Note:** BLUE part numbers indicate 2D geometry and 3D CAD models that are included on CD-ROM.