HD-20 Straight Posted Connectors



Product Selection Guide

Connector Density	Туре	Post Style	Style and Shell Finish	No. of Contact Positions	Mating Hardware	Contact Plating (Mating Area/ Solder Tails)	Post Length	Profile
HD-20			Full Metal-Shell With and Without Grounding	9 15 25	.120 [3.05] Dia. Holes	Duplex (.000030 [0.00076] Gold/Tin)	.125 [3.18]	High
			Indents, Tin Plated (pgs. 78 and 79)	37 50	Clinch Nuts	Duplex (Gold Flash/ Tin)	.188 [4.78]	5
			Front Metal-Shell	9	.120 [.318] Dia. Holes	Duplex (.000030 [0.00076]	.125 [3.18]	
	Plugs and Receptacles	Straight	With and Without Grounding Indents (pgs. 80 and 81)	15 25 37	Threaded Inserts Retention Inserts	s Duplex	.170 [4.32]	Medium
	Receptacies				Female Screwlocks	(Gold Flash/ Tin)	.250 [6.35]	
				9	.120 [3.05] Dia. Holes	Duplex (.000030 [0.00076]	.125 [3.18]	
			All-Plastic (pgs. 82-85)	15 25 37 50	Threaded Inserts	Gold/Tin) Duplex (Gold Flash/ Tin)	.170 [4.32]	Medium
				50	Female Screwlocks		.250 [6.35]	
CTION PIN	Plugs		Front Metal-Shell	9 15	.120 [3.05] Dia. Holes	Duplex (.00030 [0.00076] Gold/Tin)	.228	
	and Receptacles		Tin Plated (pgs. 87 and 88)	25 37	Threaded Inserts	Duplex	[5.79]	Medium
					Female Screwlocks .120	(Gold/Tin)		
				9 15	[3.05] Dia. Holes	Duplex (.000030 [0.00076] Gold Flash/Tin)		
	Receptacles		All-Plastic (pg. 89)	25 37 50	Threaded Inserts Female Screwlocks	Duplex (.000010 [0.000254] Gold Flash/Tin)	.228 [5.79]	Low/High
1D-22			Front Metal-Shell	15	.120 [3.05] Dia. Holes	Duplex (.000030 [0.00076] Gold/Tin)		
I	Plugs and Receptacles	Straight	With Grounding Indents, Nickel Plated	26 44 62 78	Threaded Inserts	Duplex (.000015 [0.00038] Gold/Tin)	.125 [3.18]	Medium
			(pg. 86)	10	Female Screwlocks	Duplex (Gold Flash/Tin)		

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HD-20 Straight Posted Connectors (Continued)

Product Facts

- Flame retardant thermoplastic housing material, UL 94V-0 rated
- HD-20 straight posted connectors are available in 9, 15, 25, 37 and 50 positions (Shell Sizes 1 thru 5)
- HD-20 straight posted connectors in Full Metal-Shell, Front Metal-Shell and All-Plastic versions
- HD-20 connectors with ACTION PIN contacts are available in low, medium and high profiles with integral standoffs
- ACTION PIN contact connectors for both .093 [2.36] and .062 [1.58] min. thick pc board application

- Various straight posted connectors offer a choice of through-holes, 4-40 threaded inserts or 4-40 fixed female screwlocks
- Choice of contact platings
- Integral boardlock feature secures connector to pc board prior to soldering
- Connectors are intermateable with any size 20 or 22 subminiature D connectors dimensionally complying with MIL-C-24308
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- CSA Certified, File No. LR 16455 HD-20 Products

Section Contents

Straight Posted Connectors HD-20 Full Metal-Shell	
Straight Posted Connectors	78, 79
HD-20 Front Metal-Shell	
Straight Posted Connectors	80, 81
HD-20 All-Plastic Straight Posted Connectors	82-85
HD-22 Subminiature D Connectors	86
HD-20 Front Metal-Shell Straight Posted	
Connectors with ACTION PIN Contacts	87, 88
HD-20 All-Plastic Straight Posted Connectors	
with ACTION PIN Contacts	

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HD-20 Full Metal-Shell Straight Posted Connectors

Plug

Straight Posted Connectors



Without Grounding Indents



With Grounding Indents

Material and Finish:

Shell—Steel, tin plated

Insert—94V-0 rated thermoplastic, black

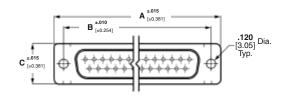
Pin Contacts (Posted)—Brass, plated as follows:

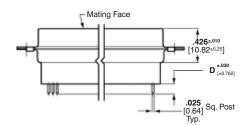
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

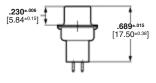
B—Gold flash on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

Technical Documents:

Product Specification—108-40025







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China: +86 (0) 400-820-6015

See customer drawings for pcb layouts.

	No. of					Contact	Plug	g Part Numbe	rs	
Shell Size	Contact Positions	A	Dimen A B		D*	Finish (Plating Code)	Without Grounding Indents	With Grounding Indents	With Clinch Nuts	
					.125	Α	—	5745410-1	5749014-1	
1	9	1.213	.984	.494	3.18	В	5745182-2	_	_	
I	9	30.81	24.99	12.55	.188 4.78	А	—	5745410-7	—	
2	15	1.541 39.14	1.312 33.33	.494 12.55	.125 3.18	А	_	5745411-1	_	
	25	25	25			.125	А	_	5745412-1	5745959-1
3				2.088	1.852	.494	3.18	В	5745186-2	—
5	23	53.04	47.04	12.55	.188 4.78	А	—	5745412-7	_	
4	37	2.729 69.32	2.500 63.50	.494 12.55	.125 3.18	А	—	5745413-1	_	
5	50	2.635	2.406	.605	.125 3.18	А	—	5745414-1	_	
5	50	66.93	61.11	15.37	.188 4.78	А	—	5745414-7	_	

*.125 [3.18] post length is for recommended pc board thickness of .062-.093 [1.58-2.36] max.; .188 [4.78] post length is for recommended pc board thickness of .125 [3.18].

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Notes: 1. All plugs are preloaded with size 20 DF posted pin contacts.

2. Special loading of contacts can be arranged upon request.

3. Longer post lengths available, consult TE.

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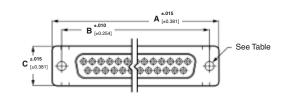
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HD-20 Full Metal-Shell Straight Posted Connectors (Continued)

Receptacle







With Clinch Nuts

Material and Finish:

Shell—Steel, tin plated Insert—94V-0 rated thermoplastic, black

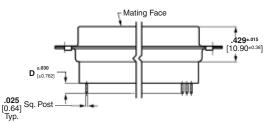
 $\textbf{Clinch Nuts} \\ - \\ \textbf{Steel, zinc plated}$

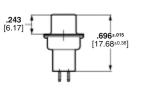
Socket Contacts (Posted)— Phosphor bronze, plated as follows: A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel

underplated **B**—Gold flash on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

Technical Documents:

Product Specification—108-40025





See customer drawings for pcb layouts.

						Contact	Receptacle F	Part Numbers
Shell Size	No. of Contact Positions	A	Dimen B	sions C	D*	Finish (Plating Code)	With .120 [3.05] Mounting	With Clinch Nuts
						,	Holes	
					.125	A	5745183-1	5747190-2
1	9	1.213	.984	.494	3.18	В	5745183-2	5747190-1
	3	30.81	24.99	12.55	.188	A	5745183-7	5747190-4
					4.78	В	—	—
					.125	А	5745185-1	5745820-1
0	45	1.541	1.312	.494	3.18	В	_	5745820-2
2	15	39.14	33.33	12.55	.188 4.78	А	5745185-7	_
					.125	А	5745187-1	5745886-1
0	05	2.088	1.852	.494	3.18	В	_	5745886-2
3	25	53.04	47.04	12.55	.188	А	5745187-7	—
					4.78	В	5745187-8	_
4	37	2.729	2.500	.494	.125 3.18	А	5745189-1	5747315-1
4	57	69.32	63.50	12.55	.188 4.78	А	5745189-7	_
5	50 2.65		2.406	.605	.125 3.18	А	5745191-1	5747302-1
5		66.93	61.11	15.37	.188 4.78	А	5745191-7	—

*.125 [3.18] post length is for recommended pc board thickness of .062-.093 [1.58-2.36] max.; .188 [4.78] post length is for recommended pc board thickness of .093-.125 [2.36-3.18].

Notes: 1. All receptacles are preloaded with size 20 DF posted socket contacts.

2. Special loading of contacts can be arranged upon request.

3. Longer post lengths available, consult TE.

Note: All part numbers are RoHS compliant.

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Straight Posted Connectors

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HD-20 Front Metal-Shell Straight Posted Connectors

Plug

Straight Posted Connectors



With Grounding Indents





With Retention

Material and Finish:

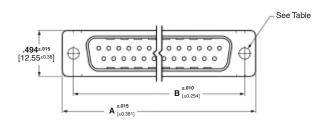
Shell-Steel, tin plated Housing-94V-0 rated thermoplastic, black

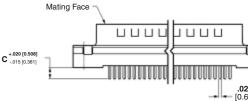
Threaded Inserts—Brass, unplated Female Screwlocks—Zinc

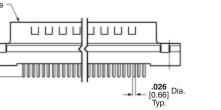
Pin Contacts (Posted)—Brass, plated as follows:

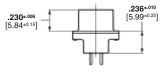
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated B-Gold flash on mating end, tin on

termination end, with entire contact .000050 [0.00127] (min.) nickel underplated









See customer drawings for pcb layouts.

Technical Documents:

Product Specification—108-40025 Application Specification-114-40023

					Contact	Plug Part Numbers										
Shell	No. of		Dimensions			With		With		With						
Size	Contact Positions	Α	В	C*	(Plating Code)	Standard Mounting Holes	With 4-40 Threaded Inserts (f	Retention 4-40 Inserts for .062 [1.58] PCB)	With Fixed Female Screwlocks	Retention 4-40 Screwlocks (for .062 [1.58] PCB)						
				.125	Α	5747871-2	5747871-8	2-5748003-0	1-5747871-4	—						
4	1 9 1.213 30.81		.984	3.18	В	—		—	1-5747871-3	—						
I			24.99	.170 4.32	А	5747871-4	_	_	1-5747871-6	—						
2	15	1.541	1.312	.125 3.18	А	—	5747872-8	—	—	5748026-1						
2	15	39.14	39.14	39.14	39.14	39.14	39.14	39.14	33.33	.170 4.32	А	5747872-4	—	—	1-5747872-6	—
				.125	А	5745968-2	5745968-8	2-5747704-0	1-5745968-4	5748027-1						
3	25	2.090	1.852	3.18	В	_	5745968-7	—	1-5745968-3	_						
3	25	53.09	47.04	.170	А	5745968-4	_	—	1-5745968-6	—						
				4.32	В	—		—	1-5745968-5	—						
4	37	2.732 69.39	2.500 63.50	.125 3.18	А	5747375-2	5747375-8	—	_	5787686-1						

*.125 [3.18] post length is recommended for pc board thickness of .062-.093 [1.58-2.36] max.; .170 [4.32] post length is recommended for pc board thickness of .093-.125 [2.36-3.18]; .250 [6.35] post length is for special applications

Notes: 1. All plugs are preloaded with size 20 DF posted pin contacts.

Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.
PC board hole size is .121^{±002} [3.07^{±0.0508}] for all retention inserts and screwlocks.

Note: All part numbers are RoHS compliant.

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HD-20 Front Metal-Shell Straight Posted Connectors (Continued)

Receptacle





With Threaded Insert



With Fixed Female Screwlock



With Retention

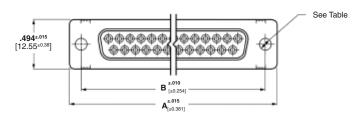
Material and Finish:

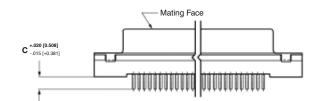
Shell—Steel, tin plated **Housing**—94V-0 rated thermoplastic,

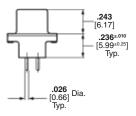
black Threaded Inserts—Brass, unplated

Female Screwlocks—Zinc

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See customer drawings for pcb layouts.

Socket Contacts (Posted)—

Phosphor bronze, plated as follows: **A**—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

B—Gold flash on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

Technical Documents:

Product Specification—108-40025 Application Specification— 114-40023

							Re	eceptacle Part Numb	ers		
Shell Size	No. of Contact Positions	Α	Dimensions A B		Contact Finish (Plating Code)	With Standard Mounting Holes	With 4-40 Threaded Inserts	With Retention 4-40 Inserts (for .062 [1.58] PCB)	With Fixed Female Screwlocks	With Retention 4-40 Screwlocks (for .062 [1.58] PCB)	
				.125	А	5747150-2	5747150-8	2-5747706-0	1-5747150-4	5750678-1	
	0	1.216	.984	3.18	В	_	5747150-7	_	1-5747150-3	_	
I	9	30.89	24.99	.170	А	5747150-4	_	_	1-5747150-6	_	
				4.32	В	—	5747150-9	_	_	_	
				.125	А	5747299-2	5747299-8	2-5747707-0	1-5747299-4	5787683-1	
2	15	1.541 39.14		1.312	3.18	В	—	5747299-7	_	—	—
2	15			39.14	33.33	.170 4.32	А	5747299-4	—	—	1-5747299-6
				.125	А	5745967-2	5745967-8	2-5747708-0	1-5745967-4	5748612-1	
3	25	2.090	1.852	3.18	В	_	5745967-7	1-5745967-0	_	_	
5	25	53.09	47.04	.170	А	5745967-4	1-5745967-0	—	1-5745967-6	—	
				4.32	В	—	—	_	1-5745967-5	_	
				.125	Α	5747301-2	5747301-8	2-5747709-0	1-5747301-4	5787685-1	
4	4 37	2.732	732 2.500	3.18	В	_	5747301-7	_	_	_	
	4 37		63.50	.170 4.32	А	_		_	1-5747301-6	_	

*.125 [3.18] post length is recommended for pc board thickness of .062-.093 [1.58-2.36] max.; .170 [4.32] post length is recommended for pc board thickness of .093-.125 [2.36-3.18]; .250 [6.35] post length is for special applications

Notes: 1. All receptacles are preloaded with size 20 DF posted socket contacts.

2. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.

3. Pc board hole size is .121±.002 [3.07±0.0508] for all retention inserts and screwlocks.

Note: All part numbers are RoHS compliant.

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HD-20 All-Plastic Straight Posted Connectors

Plug

Straight Posted Connectors



With Standard Mounting Hole



With Threaded Insert



With Fixed Female Screwlock

Material and Finish:

Housing-94V-0 rated thermoplastic, black

Threaded Inserts—Brass, unplated Female Screwlocks-Brass, nickel plated

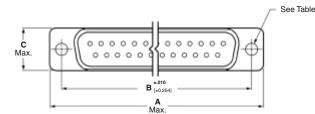
Pin Contacts (Posted)—Brass, plated as follows:

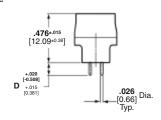
A-.000030 [0.00076] gold on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

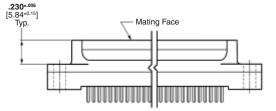
B-Gold flash on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

Technical Documents:

Product Specification—108-40025

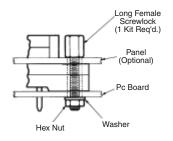




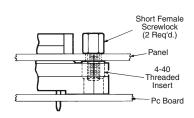


See customer drawings for pcb layouts.

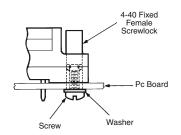
Typical Applications



Application of connector with standard mounting holes using Long Female Screwlock Kit No. 207719



Application of connector with 4-40 Threaded Inserts using Short Female Screwlocks included in Kit No. 207952



Application of connector with 4-40 Fixed Female Screwlocks. (See table on next page.)

Note: Hardware parts in illustrations above are not included with the connectors listed in the table on page 83. They are to be supplied by the Customer or, where applicable, purchased separately from TE using the part nos. specified.

Note: All part numbers are RoHS compliant.

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Dimensions are in inches and

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Plug (Continued)

						Contact	PI	ug Part Numb	ers
Shell Size	No. of Contact Positions	Α	Dimen B	sions C	D*	Finish (Plating Code)	With .120 [3.05] Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks
					.125	А	5208006-2	5745051-2	5745071-2
	0	1.228	.984	.420	3.18	В	5208006-1	5745051-1	5745071-1
1 9	9	32.72	24.99	10.67	.170 4.32	А	_	_	5745071-4
					.125	А	5208007-2	5745052-2	5745072-2
0	15	1.546	1.312	.420	3.18	В	_	5745052-1	_
2	15	39.27	33.33	10.67	.170 4.32	А	_	_	5745072-4
					.125	А	5208008-2	5745053-2	5745073-2
0	25 2.09	2.095	1.852	.420	3.18	В	5208008-1	_	5745073-1
3	25	53.21	47.04	10.67	.170 4.32	В	_	_	5745073-3
					.125	А	_	_	5745074-2
4	37	2.737	2.500	.420	3.18	В	5208009-1	_	5745074-1
4	37	69.52	63.50	10.67	.170	А	_	5745054-4	5745074-4
						В	5208009-3	_	_
5	50	2.643 67.13	2.406 61.11	.527 13.39	.125 3.18	А	5208010-2	_	_

HD-20 All-Plastic Straight Posted Connectors (Continued)

*.125 [3.18] post length is recommended for pc board thickness of .062-.093 [1.58-2.36] max.; .170 [4.32] post length is recommended for pc board thickness of .093-.125 [2.36-3.18]; .250 [6.35] post length is for special applications. **Notes:** 1. All plugs are preloaded with size 20 DF posted pin contacts.

If is recommended that these connectors be secured with appropriate hardware to a pc board and/or panel.

3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.

Dimensions are shown for

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Note: All part numbers are RoHS compliant.

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HD-20 All-Plastic Straight Posted Connectors (Continued)

Receptacle



With Standard Mounting Hole



With Threaded Insert



With Fixed Female Screwlock

Material and Finish:

Straight Posted Connectors

Housing—94V-0 rated thermoplastic, black

Threaded Inserts—Brass, unplated Female Screwlocks—Brass, nickel plated

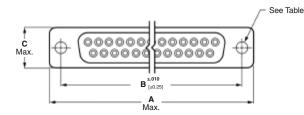
Socket Contacts (Posted)-

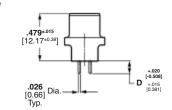
Phosphor bronze, plated as follows: **A**—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

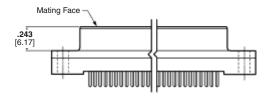
B—Gold flash on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

Technical Documents:

Product Specification—108-40025

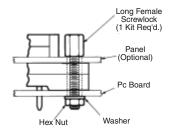




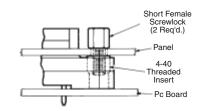


See customer drawings for pcb layouts.

Typical Applications



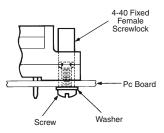
Application of connector with standard mounting holes using Long Female Screwlock Kit No. 207719



Application of connector with 4-40 Threaded Inserts using Short Female Screwlocks included in Kit No. 207952

> UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999

China: +86 (0) 400-820-6015



Application of connector with 4-40 Fixed Female Screwlocks. (See table on next page.)

Note: Hardware parts in illustrations above are not included with the connectors listed in the table on page 85. They are to be supplied by the Customer or, where applicable, purchased separately from TE using the part nos. specified.

Canada: +1 (905) 475-6222 Mexico/C. Am.: +52 (0) 55-1106-0800 Latin/S. Am.: +54 (0) 11-4733-2200

Germany: +49 (0) 6251-133-1999

Note: All part numbers are RoHS compliant.

specified

Dimensions are in inches and

millimeters unless otherwise

USA: +1 (800) 522-6752

Dimensions are shown for

reference purposes only. Specifications subject

to change.

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HD-20 All-Plastic Straight Posted Connectors (Continued)

Receptacle

(Continued)

						Contact	Rece	ptacle Part Nu	umbers
Shell Size	No. of Contact Positions	A	Dimensions A B C			Finish (Plating Code)	With .120 [3.05] Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks
					.125	A	5207826-4	5207841-4	5745076-4
		1.228	.984	.420	3.18	В	5207826-3	5207841-3	5745076-3
1 9	32.72	24.99	10.67	.170 4.32	А	_	_	5745076-6	
					.125	А	5207827-4	5745057-4	5745077-4
2 15		1.546	1.312	.420	3.18	В	5207827-3	5745057-3	5745077-3
2	2 15	39.27	33.33	10.67	.170 4.32	А	_	_	5745077-6
				.420 10.67	.125	А	5207828-4	5745058-4	5745078-4
3	25	2.095	1.852		3.18	В	5207828-3	5745058-3	5745078-3
3	25	53.21	47.04		10.67	.170	А		_
					4.32	В		_	5745078-5
4	07	2.737	2.500	.420	.125 3.18	А	5207829-4	5745059-4	5745079-4
4	4 37	69.52	63.50	10.67	.170 4.32	А	_	_	5745079-6
5	50	2.643	2.406	.527	.125 3.18	А	_	_	5745080-4
5	50	67.13	61.11	13.39	.170 4.32	А	_	_	5745080-6

*.125 [3.18] post length is recommended for pc board thickness of .062-.093 [1.58-2.36] max.; .170 [4.32] post length is recommended for pc board thickness of .093-.125 [2.36-3.18]; .250 [6.35] post length is for special applications. **Notes:** 1. All receptacles are preloaded with size 20 DF posted socket contacts.

It is recommended that these connectors be secured with appropriate hardware to a pc board and/or panel.
Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.

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Dimensions are shown for reference purposes only. Specifications subject to change. Dimensions are in inches and millimeters unless otherwise specified. USA: +1 (800) 522-6752

Note: All part numbers are RoHS compliant.

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HD-22 Straight Subminiature D Connectors

Material and Finish:

Housing-94V-0 rated thermoplastic, black

▲ VESA Std. 15-position Receptacle Housing Material—Thermoplastic 94V-0 blue per VESA Std. Shell-Steel, nickel plated

Contacts

Pins—Brass Sockets—Phosphor bronze

Contact Plating-

Gold flash, .000010 [0.00025] or .000030 [0.00076] on mating end, tin on solder tails with overall nickel underplate Boardlocks—Brass, tin plated

Female Screwlocks—Brass, nickel plated

Threaded Inserts-Brass, tin plated

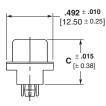
Technical Documents:

Product Specification—108-1092 Application Specification-114-13199

See customer drawings for printed circuit board layouts.

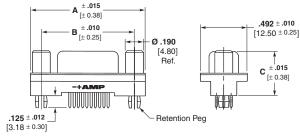
- Recognized under the Component Program of Underwriters Laboratories, Inc., File No. E28476
- Certified by Canadian Standards **SP**[∈] Association, File No. LR 7189

~	A ±.015 [± 0.38] B ±.010 [± 0.25]	
.125 ± .01 [3.18 ± 0.3		



Vertical Plug

No. of	Dimensions			Mounting	PCB	Part Numbers			
Contact Positions	A	В	C	— ° Mounina	Gold Flash	15µ" Gold	30µ" Gold		
15	1.212 30.80	.984 25.00	.476 12.10	4-40 inserts	retention pegs	5750489-4	5750489-3	5750489-1	
15	1.212 30.80	.984 25.00	.476 12.10	4-40 inserts	_	5749798-4	5749798-3	5749798-1	
78	2.640 67.00	2.500 63.50	.476 12.10	4-40 inserts	_	5749019-6	5749019-5	5749019-1	



Vertical Receptacle

No. of	Di	imensio	ns	Mounting	PCB	F	Part Numbers	
Contact Positions	A	В	C	Hardware	Mounting Style	Gold Flash	15µ" Gold	30µ" Gold
	1.212 30.80	.984 25.00	.465 11.80	4-40 inserts	_	_	5749374-7	5749374-1
15	1.212 30.80	.984 25.00	.465 11.80	4-40 screw locks	_	5786356-4	5786356-3	5786356-1
	1.212 30.80	.984 25.00	.465 11.80	4-40 inserts	retention pegs	_	_	5749374-3
	1.212 30.80	.984 25.00	.465 11.80	4-40 screw locks	retention pegs	_	5786382-3	5786382-1
26	1.543 39.20	1.310 33.30	.465 11.80	4-40 inserts	_	5749030-4	5749030-3	5749030-1
20	1.543 39.20	1.310 33.30	.465 11.80	4-40 screw locks	retention pegs	5788623-4	5788623-3	
62	2.732 69.40	2.500 63.50	.465 11.80	4-40 inserts	_	3-5747786-4	_	5747786-6
78	2.638 67.00	2.400 61.00	.476 12.10	4-40 inserts	_	1-5748831-0	5748831-9	5748831-1

Note: All part numbers are RoHS compliant.

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to change.

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Dimensions are in inches and millimeters unless otherwise specified. USA: +1 (800) 522-6752

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HD-20 Front Metal-Shell Straight Posted Connectors With ACTION PIN Contacts

Receptacle



With Standard Mounting Holes



With Threaded Insert



With Fixed Female Screwlock

Material and Finish:

Front Shell—Steel, tin plated Housing—94V-0 rated thermoplastic, black

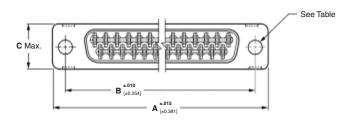
Threaded Inserts—Brass, unplated

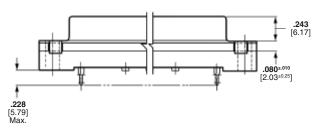
Female Screwlocks—Zinc

ACTION PIN Contacts—Copper alloy, duplex plated as follows: A—.000030 [0.00076] gold on mating end, tin on ACTION PIN post surface, with entire contact .000050 [0.00127] (min.) nickel underplated B—Gold flash on mating end, tin on ACTION PIN post surface, with entire contact .000050 [0.00127] (min.) nickel underplated

Technical Documents:

Product Specification—108-40014 Application Specification— 114-40026





See customer drawings for pcb layouts.

[12

For .062 [1.57] min. Thick Pc Boards

	No. of Contact Positions				Contact				
Shell Size		D 	imensior B	C	Finish (Plating Code)	With .120 [3.05] Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks	Seating Tool Part No.
1	9	1.213 30.81	.984 24.99	.509 12.93	А	_	_	_	91164-2
2	15	1.541 39.14	1.312 33.33	.509 12.93	А	_	_	_	91165-2
3	25	2.088 53.04	1.852 47.04	.509 12.93	В	_	_	5748688-1	91168-2
5	50	2.635 66.93	2.406 61.11	.620 15.75	А	_	5748485-2	_	91167-2

For .093 [2.36] min. Thick Pc Boards

					Contact	umbers	Seating Tool			
Shell	No. of Contact	Dimensions			Finish	With			With	With Fixed
Size	Positions	Α	В	С	(Plating Code)	.120 [3.05] Mounting Holes	Threaded Inserts	Female Screwlocks	Part No.	
1	9	1.213 30.81	.984 24.99	.509 12.93	А	5747089-2	5747090-2	5747091-2	91164-2	
2	15	1.541 39.14	1.312 33.32	.509 12.93	А	5747140-2	5747141-2	5747142-2	91165-2	
3	25	2.088 53.04	1.852 47.04	.509 12.93	А	5745922-2	5745925-2	5745928-2	91168-2	
4	37	2.729	2.500	.509	А	5747713-2	5747714-2	5747715-2	91166-2	
4	37	69.32	63.50	12.93	В		5747714-1	_	91100-2	
5	50	2.635 66.93	2.406 61.11	.620 15.75	А	5747143-2	5747144-2	5747145-2	91167-2	

Notes: 1. All receptacles are preloaded with straight posted ACTION PIN socket contacts.

2. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.

Note: All part numbers are RoHS compliant.

Catalog 82068 Revised 4-12

Dimensions are shown for reference purposes only. Specifications subject to change. Dimensions are in inches and millimeters unless otherwise specified. USA: +1 (800) 522-6752 Canada: +1 (905) 475-6222 Mexico/C. Am.: +52 (0) 55-1106-0800 Latin/S. Am.: +54 (0) 11-4733-2200 Germany: +49 (0) 6251-133-1999 UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 Netherlands: +31 (0) 73-6246-999 China: +86 (0) 400-820-6015 87

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HD-20 Front Metal-Shell Straight Posted Connectors With ACTION PIN Contacts (Continued)

Plug



With Standard Mounting Holes



With Threaded Insert



With Fixed Female Screwlock

Material and Finish:

Front Shell—Steel, tin plated Housing—94V-0 rated thermoplastic, black

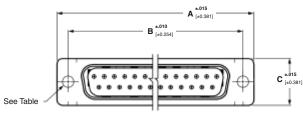
Threaded Inserts—Brass, unplated Female Screwlocks—Zinc

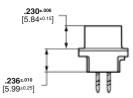
ACTION PIN Contacts—Copper alloy, duplex plated as follows: A—.000030 [0.00076] gold on mating end, tin on ACTION PIN post surface,

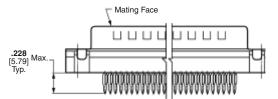
with entire contact .000050 [0.00127] (min.) nickel underplated

Technical Documents:

Product Specification—108-40014 Application Specification— 114-40026







See customer drawings for pcb layouts.

For .093 [2.36] min. Thick Pc Board

	No. of Contact Positions				Contact				
Shell Size		Di A	imensio B	C C	Finish (Plating Code)	With .120 [3.05] Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks	Seating Tool Part No.
1	9	1.213 30.81	.984 24.99	.494 12.55	А	_	5786830-1	5787176-1	58274-3
2	15	1.541 39.14	1.312 33.32	.494 12.55	А	_	_	5787177-1	58274-6
3	25	2.088 53.04	1.852 47.04	.494 12.55	А	5748146-2	5748146-4	5748146-6	58274-1
4	37	2.732 69.39	2.500 63.50	.494 12.55	А	5788458-1	5786534-1	5750060-1	58274-5
5	50	2.635 66.93	2.406 61.11	.605 15.37	А	_	5749892-1	_	58273-1

Notes: 1. All plugs are preloaded with straight posted ACTION PIN pin contacts.

2. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.

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Specifications subject to change.

Dimensions are shown for

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Note: All part numbers are RoHS compliant.

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HD-20 All-Plastic Straight Posted Connectors With ACTION PIN Contacts

Receptacles (Low and High Profile)



With Standard Mounting Holes



With Threaded Insert



With Fixed Female Screwlock

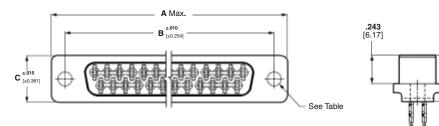
Material and Finish:

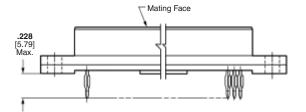
Housing—94V-0 rated thermoplastic, black

Threaded Inserts—Brass, unplated Female Screwlocks—Brass, nickel plated

ACTION PIN Contacts—Copper alloy, duplex plated as follows:

A—.000030 [0.00076] gold on mating end, tin on ACTION PIN post surface, with entire contact .000050 [0.00127] (min.) nickel underplated





See customer drawings for pcb layouts.

B—Gold flash on mating end, tin on ACTION PIN post surface, with entire contact .000050 [0.00127] (min.) nickel underplated

Technical Documents: Product Specification—108-40014

Shell Size								Receptacle Part Numbers														
	No. of Contact Positions		Dimen	nsions		Profile	Contact	For .093 [2.	36] (min.) Thio	k Pc Boards	For .062 [1.57] (min.) Thick PC Boards			Seating								
		Α	B	C	D		Finish (Plating Code)	With .120 [3.05] Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks	With .120 [3.05] Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks	Tool Part No.								
	9	1.221 31.01	.984 24.99	.410 10.41	.395 10.03	Low	А	_	_	5745454-2	_	—	_	91164-1								
I	9				.695 17.65	High	А	_	_	5745455-2	_	_	_	91164-3								
	15	1.546	1.312	.410 10.41	.395 10.03	Low	А	_	_	5745456-2	_	—	—	91165-								
2	2 15	39.27	33.32		.695 17.65	High	А	_	_	_	_	5745612-2	_	91165-3								
				.410	.395 10.03	1	Α	_	_	5745458-2	_	_	_	01100								
3	25	2.095	1.852			Low	В	_	_	5745458-1	—	—	_	91168-								
0 2	25	53.21	53.21	53.21	53.21	53.21	53.21	53.21	53.21	53.21	47.04	10.41	.695 17.65	High	А	—	5745465-2	—	_	—	—	91168-3
4	37	2.737 69.52	2.500 63.50	.410 10.41	.395 10.03	Low	А	_	_	5745459-2	5745589-2	_	_	91166-								
5	50	2.643 67.13	2.406 61.11	.517 13.13	.395 10.03	Low	А	_	_	5745461-2	_	_	_	91167-								

Notes: 1. All receptacles are preloaded with straight posted ACTION PIN socket contacts.

2. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.

Note: All part numbers are RoHS compliant.

Catalog 82068 Revised 4-12 Dimensions are shown for reference purposes only. Specifications subject to change.

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