

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]	9
			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		.170 [4.32]	Medium
	rieceptacies				Female Screwlocks	Tin)	.250 [6.35]	
				9 15	.120 [3.05] Dia. Holes	Duplex (.000030 [0.00076] Gold/Tin)	.125 [3.18]	
			All-Plastic (pgs. 82-85)	25 37 50	Threaded Inserts	Duplex (Gold Flash/	.170 [4.32]	Medium
				50	Female Screwlocks	Tin)	.250 [6.35]	
ACTION PIN	Plugs		Front Metal-Shell	25	. 120 [3.05] Dia. Holes	Duplex (.00030 [0.00076] Gold/Tin)	.228 [5.79]	Medium
	and Receptacles	and	Tin Plated (pgs. 87 and 88)		Threaded Inserts	Duplex		
					Female Screwlocks	(Gold/Tin)		
			AU 21	9 15	. 120 [3.05] Dia. Holes	Duplex (.000030 [0.00076] Gold Flash/Tin)		
	Receptacles		All-Plastic (pg. 89)	25 37 50	Threaded Inserts Female	Duplex (.000010 [0.000254] Gold Flash/Tin)	.228 [5.79]	Low/High
HD-22					.120 [3.05]	Duplex (.000030 [0.00076]		
	Plugs		Front Metal-Shell With	15 26	Dia. Holes	Gold/Tin) Duplex	105	
	and Receptacles		Grounding Indents, Nickel Plated (pg. 86)	26 44 62 78	Threaded Inserts	(.000015 [0.00038] Gold/Tin)	.125 [3.18]	Medium
			(59. 00)		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



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South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: 44-8706-080-208



HD-20 Full Metal-Shell Straight Posted Connectors

Plug



Without Grounding Indents



With Grounding Indents

Material and Finish:

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

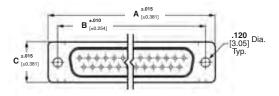
Pin Contacts (Posted)—Brass, plated as follows:

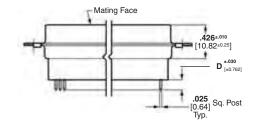
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

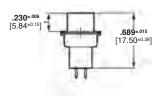
B—Gold flash on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

Technical Documents:

Product Specification—108-40025







See customer drawings for pcb layouts.

	No. of			_		Contact	Plug	Part Numbe	rs
Shell Size	Contact Positions	Α	Dimen B	Sions C	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	_	_
'	9	30.81	24.99	12.55	.188 4.78	Α	_	5745410-7	_
2	15	1.541 39.14	1.312 33.33	.494 12.55	.125 3.18	А	_	5745411-1	_
					.125	Α	_	5745412-1	5745959-1
3	25	2.088	1.852	.494	3.18	В	5745186-2	_	_
	23	53.04	47.04	12.55	.188 4.78	Α	_	5745412-7	_
4	37	2.729 69.32	2.500 63.50	.494 12.55	.125 3.18	Α	_	5745413-1	_
5	50	2.635	2.406	.605	.125 3.18	Α	_	5745414-1	_
5	30	66.93	61.11	15.37	.188 4.78	Α	_	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].

- Notes: 1. All plugs are preloaded with size 20 DF posted pin contacts.
 - Special loading of contacts can be arranged upon request.
 - 3. Longer post lengths available, consult Tyco Electronics.



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

Clinch Nuts—Steel, zinc plated

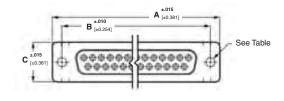
Socket Contacts (Posted)-

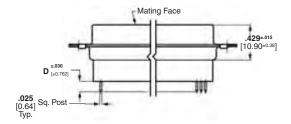
Phosphor bronze, plated as follows: **A**—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

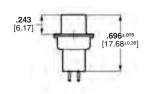
B—Gold flash on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

Technical Documents:

Product Specification—108-40025







See customer drawings for pcb layouts.

						Contact	Receptacle F	art Numbers
Shell Size	No. of Contact Positions	A	Dimen B	Sions	D*	Finish (Plating Code)	With .120 [3.05] Mounting Holes	With Clinch Nuts
					.125	Α	5745183-1	5747190-2
_		1.213	.984	.494	3.18	В	5745183-2	5747190-1
1	9	30.81	24.99	12.55	.188	Α	5745183-7	5747190-4
					4.78	В	_	_
					.125	Α	5745185-1	5745820-1
2	15	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	Α	5745187-1	5745886-1
3	25	2.088	1.852		3.18	В	_	5745886-2
3	25	53.04	47.04		12.55	.188	Α	5745187-7
					4.78	В	5745187-8	_
4	37	2,729	2.500	.494	.125 3.18	Α	5745189-1	5747315-1
4	37	69.32	63.50	12.55	.188 4.78	Α	5745189-7	_
5	50	2.635	2.406	.605	.125 3.18	А	5745191-1	5747302-1
5	50	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 Tyco Electronics.



HD-20 Front Metal-Shell Straight Posted Connectors

Plug



With Grounding Indents



With Threaded Insert



With Fixed Female Screwlock



With Retention

Technical Documents:

Product Specification—108-40025

Application Specification-114-40023

Material and Finish:

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

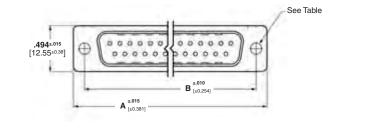
Threaded Inserts—Brass, unplated

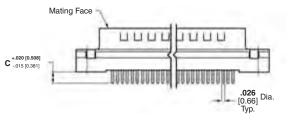
Female Screwlocks—Zinc Pin Contacts (Posted)—Brass,

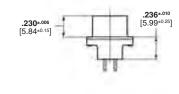
plated as follows:

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.

					Contact			Plug Part Numbers		
Shell	No. of Contact		Dimensions		Finish	With		With		With
Size	Positions	Α	В	C*	(Plating Code)	Standard Mounting Holes	With 4-40 Threaded Inserts (1	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	9	1.213	.984	3.18	В	_	_	_	1-5747871-3	_
'	9	30.81	24.99	.170 4.32	Α	5747871-4	_	_	1-5747871-6	_
2	15	1.541	1.312	.125 3.18	Α	_	5747872-8	_	_	5748026-1
2	15	39.14	33.33	.170 4.32	Α	5747872-4	_	_	1-5747872-6	_
				.125	Α	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	Α	5745968-4	_	_	1-5745968-6	_
				4.32	В	_	_	_	1-5745968-5	_
4	37	2.732 69.39	2.500 63.50	.125 3.18	Α	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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Catalog 82068 Revised 1-08

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208



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

Receptacle



With Standard Mounting Holes



With Threaded Insert



With Fixed Female Screwlock



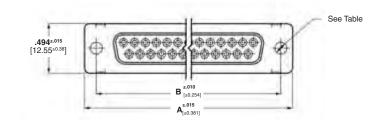
With Retention

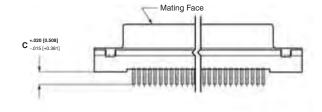
Material and Finish:

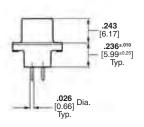
SheII --- Steel, tin plated

Housing—94V-0 rated thermoplastic,

Threaded Inserts—Brass, unplated Female Screwlocks—Zinc







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

					0		Re	eceptacle Part Numb	ers						
Shell Size	No. of Contact Positions	Α	Dimensions B	C*	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	Α	5747150-2	5747150-8	2-5747706-0	1-5747150-4	5750678-1					
4	0	1.216	.984	3.18	В	_	5747150-7	_	1-5747150-3						
ı	9	30.89	24.99	.170	Α	5747150-4	_	_	1-5747150-6	_					
				4.32	В	_	5747150-9	_	_	_					
				.125	Α	5747299-2	5747299-8	2-5747707-0	1-5747299-4	5787683-1					
0	45	1.541	1.312	3.18	В	_	5747299-7	_	_	_					
2	15	39.14	39.14	39.14	39.14	39.14		33.33	.170 4.32	А	5747299-4	_	_	1-5747299-6	_
				.125	Α	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	_	_					
3	25	53.09	47.04	.170	Α	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		2.500	3.18	В	_	5747301-7	_	_	_					
4			63.50	.170 4.32	Α	_	_	_	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.



HD-20 All-Plastic Straight Posted Connectors

Plug



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

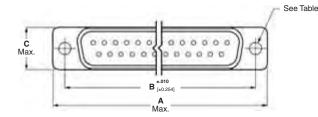
Pin Contacts (Posted)—Brass, plated as follows:

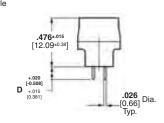
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

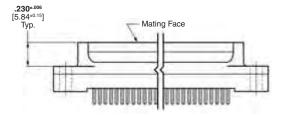
B—Gold flash on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

Technical Documents:

Product Specification—108-40025

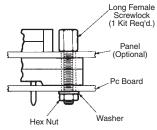


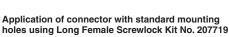


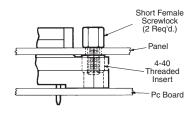


See customer drawings for pcb layouts.

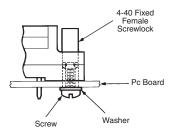
Typical Applications







Application of connector with 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 Tyco Electronics using the part nos. specified.



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

Plug (Continued)

						Contact	PI	ug Part Numb	pers		
Shell	No. of Contact		Dimen	sions		Finish	With .120 [3.05]	With	With Fixed		
Size	Positions	Α	В	С	D*	(Plating Code)	Mounting Holes	Threaded Inserts	Female Screwlocks		
					.125	Α	5208006-2	5745051-2	5745071-2		
1	9	1.228	.984	.420	3.18	В	5208006-1	5745051-1	5745071-1		
'	9	32.72	24.99	10.67	.170 4.32	Α	_	_	5745071-4		
					.125	Α	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	Α	_	_	5745072-4		
							.125	Α	5208008-2	5745053-2	5745073-2
3	25	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	Α	_	_	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	Α	_	5745054-4	5745074-4		
					4.32	В	5208009-3				
5	50	2.643 67.13	2.406 61.11	.527 13.39	.125 3.18	Α	5208010-2	_	_		

^{*.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.

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

^{2.} It 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.



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

Receptacle



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

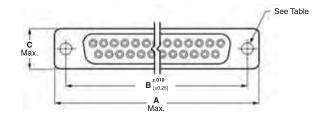
Socket Contacts (Posted)-

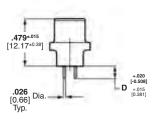
Phosphor bronze, plated as follows:

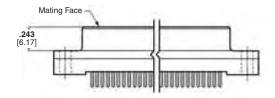
- **A**—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated
- **B**—Gold flash on mating end, tin on termination end, with entire contact .000050 [0.00127] (min.) nickel underplated

Technical Documents:

Product Specification—108-40025

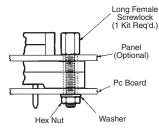




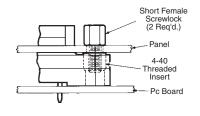


See customer drawings for pcb layouts.

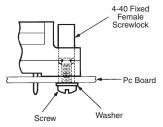
Typical Applications



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



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 Tyco Electronics using the part nos. specified.



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

Receptacle

(Continued)

						Contact	Rece	ptacle Part Nu	ımbers
Shell Size	No. of Contact Positions	Α	Dimen B	sions C	D*	Finish (Plating Code)	With .120 [3.05] Mounting	With Threaded Inserts	With Fixed Female Screwlocks
							Holes		
					.125	A	5207826-4	5207841-4	5745076-4
	0	1.228	.984	.420	3.18	В	5207826-3	5207841-3	5745076-3
1	9	32.72	24.99	10.67	.170 4.32	Α	_	_	5745076-6
					.125	Α	5207827-4	5745057-4	5745077-4
	45	1.546	1.312	.420	3.18	В	5207827-3	5745057-3	5745077-3
2	15	39.27	33.33	10.67	.170 4.32	Α	_	_	5745077-6
				.420 10.67	.125	Α	5207828-4	5745058-4	5745078-4
0	0.5	2.095	1.852		3.18	В	5207828-3	5745058-3	5745078-3
3	25	53.21	47.04		.170	Α	_	_	5745078-6
					4.32	В	_	_	5745078-5
4	37	2.737	2.500	.420	.125 3.18	Α	5207829-4	5745059-4	5745079-4
4	3/	69.52	63.50	10.67	.170 4.32	А	_	_	5745079-6
5	5 50	2.643	2.406	.527	.125 3.18	Α	_	_	5745080-4
5	50	67.13	61.11	13.39	.170 4.32	Α	_	_	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.

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

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

^{2.} It 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.



HD-22 Straight Subminiature D Connectors

Material and Finish:

Housing—94V-0 rated thermoplastic, black

Shell-Steel, nickel plated

Contacts

Pins—Brass

Sockets—Phosphor bronze

Contact Plating—

Gold flash, .000015 [0.00038] or .000030 [0.00076] on mating end, tin on solder tails with overall nickel underplate

Boardlocks—Brass, tin plated **Female Screwlocks**—Brass, nickel

Threaded Inserts—Brass, tin plated

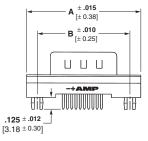
Technical Documents:

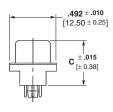
Product Specification—108-1092 **Application Specification**— 114-13199

See customer drawings for printed circuit board layouts.

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

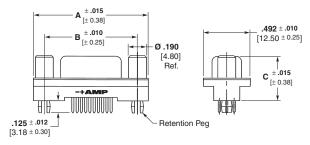






Vertical Plug

No. of	D.	imensio	ns	Mounting	PCB	1	Part Numbers			
Contact Positions	A	В	C	Hardware	Mounting Style	Gold Flash	15K" Goĺd	30K" Goĺd		
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

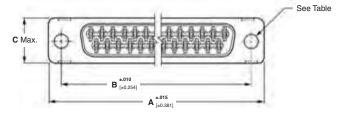
No. of	Di	imensio	ns	Mounting	PCB		Part Numbers	
Contact Positions	A	В	С	Hardware	Mounting Style	Gold Flash	15K" Goĺd	30K" Goĺd
	1.212 30.80	.984 .465 25.00 11.80		4-40 inserts	_	_	5749374-7	5749374-1
45	1.212 30.80	.984 25.00	.465 11.80	4-40 screw locks	_	5786356-4	5786356-3	5786356-1
15	1.212 30.80	.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	78 2.638 2.400 .476 4-40 67.00 61.00 12.10 inserts		_	1-5748831-0	5748831-9	5748831-1		



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

Receptacle







With Standard Mounting Holes



With Threaded Insert



With Fixed Female Screwlock

.228 [5.79] Max.

See customer drawings for pcb layouts.

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:

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

For .062 [1.57] min. Thick Pc Boards

th Fixed	Seating
	Tool
	Part No.
_	91164-2
_	91165-2
'48688-1	91168-2
_	91167-2
	Female rewlocks

Technical Documents:

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

For .093 [2.36] min. Thick Pc Boards

					Contact	Recep	tacle Part N	umbers	Coating	
Shell	No. of Contact		Dimensions		Finish	With	With	With Fixed	Seating Tool	
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	Α	5747089-2	5747090-2	5747091-2	91164-2	
2	15	1.541 39.14	1.312 33.32	.509 12.93	Α	5747140-2	5747141-2	5747142-2	91165-2	
3	25	2.088 53.04	1.852 47.04	.509 12.93	Α	5745922-2	5745925-2	5745928-2	91168-2	
4	37	2.729	2.500	.509	Α	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	Α	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.

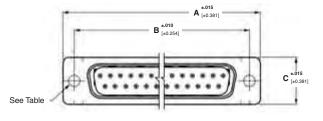


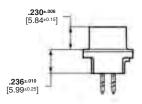
HD-20 Front Metal-Shell Straight Posted Connectors With ACTION PIN Contacts (Continued)

Plug



With Standard Mounting Holes



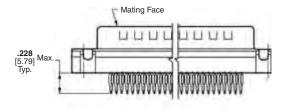




With Threaded Insert



With Fixed Female Screwlock



See customer drawings for pcb layouts.

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

For .093 [2.36] min. Thick Pc Board

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

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

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

Technical Documents:

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



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

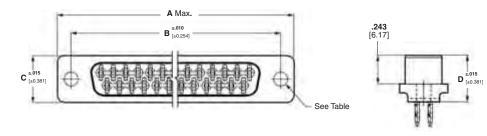
Material and Finish:

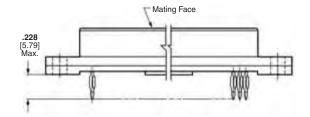
Housing—94V-0 rated thermoplastic, black

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

	No. of Contact Positions							Receptacle Part Numbers						
		Dimensions					Contact	For .093 [2.36] (min.) Thick Pc Boards			For .062 [1.57] (min.) Thick PC Boards			Seating
Shell Size		A	В	C	D	Profile	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.
1	9	1.221 31.01	.984 24.99	.410 10.41	.395 10.03	Low	Α	_	_	5745454-2	_	_	_	91164-1
					.695 17.65	High	Α	_	_	5745455-2	_	_	_	91164-3
•	15	1.546 39.27	1.312 33.32	.410 10.41	.395 10.03	Low	Α	_	_	5745456-2	_	_	_	91165-1
2					.695 17.65	High	Α	_	_	_	_	5745612-2	_	91165-3
	25	2.095 53.21	1.852 47.04	.410 10.41	.395 10.03	Low	Α	_	_	5745458-2	_	_	_	91168-1
3							В	_	_	5745458-1	_	_	_	91100-1
0					.695 17.65	High	Α	_	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	_	_	91166-1
5	50	2.643 67.13	2.406 61.11	.517 13.13	.395 10.03	Low	А	_	_	5745461-2	_	_	_	91167-1

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.