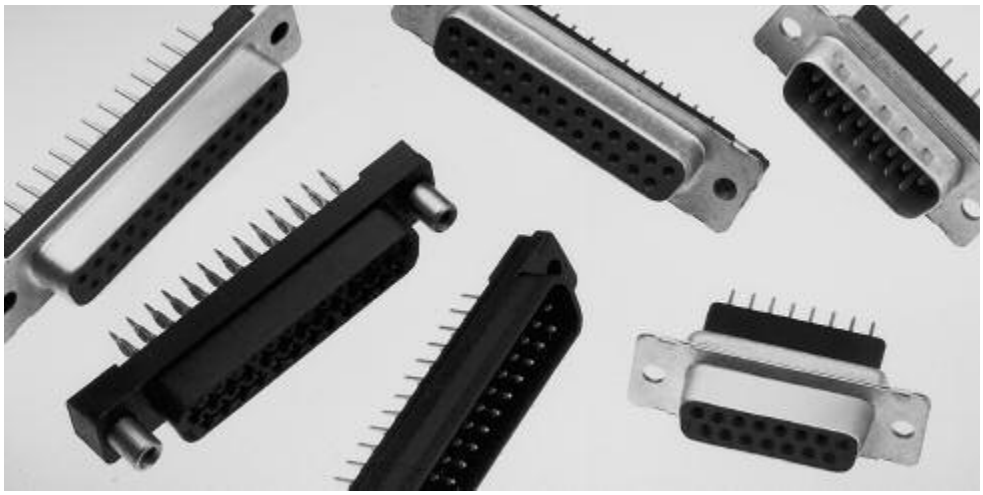
HD-20 Straight Posted Connectors



Product Selection Guide

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

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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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HD-20 All-Plastic Straight Posted Connectors with ACTION PIN Contacts 89

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HD-20 Full Metal-Shell Straight Posted Connectors

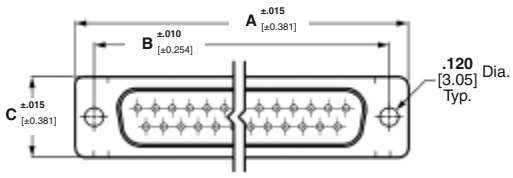
Plug

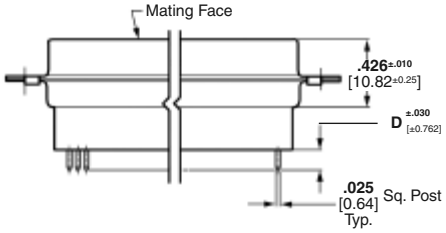


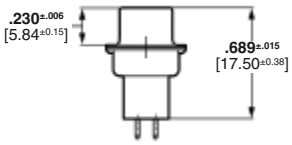
Without Grounding Indents



With Grounding Indents







See customer drawings for pcb layouts.

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

Shell Size	No. of Contact Positions	Dimensions A	Dimensions B	Dimensions C	Dimensions D*	Contact Finish (Plating Code)	Plug Part Numbers: Without Grounding Indents	Plug Part Numbers: With Grounding Indents	Plug Part Numbers: With Clinch Nuts
1	9	**1.213** 30.81	**.984** 24.99	**.494** 12.55	**.125** 3.18	A	—	5745410-1	5749014-1
						B	5745182-2	—	—
					.188 4.78	A	—	5745410-7	—
2	15	**1.541** 39.14	**1.312** 33.33	**.494** 12.55	**.125** 3.18	A	—	5745411-1	—
3	25	**2.088** 53.04	**1.852** 47.04	**.494** 12.55	**.125** 3.18	A	—	5745412-1	5745959-1
						B	5745186-2	—	—
					.188 4.78	A	—	5745412-7	—
4	37	**2.729** 69.32	**2.500** 63.50	**.494** 12.55	**.125** 3.18	A	—	5745413-1	—
5	50	**2.635** 66.93	**2.406** 61.11	**.605** 15.37	**.125** 3.18	A	—	5745414-1	—
					.188 4.78	A	—	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.
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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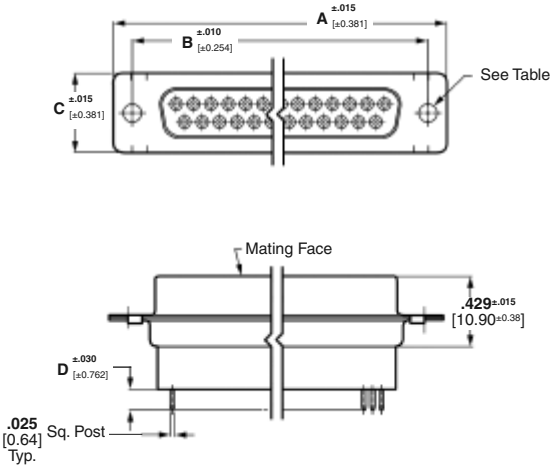
HD-20 Full Metal-Shell Straight Posted Connectors (Continued)

Receptacle





With Clinch Nuts



See customer drawings for pcb layouts.

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

Shell Size	No. of Contact Positions	Dimensions A	Dimensions B	Dimensions C	Dimensions D*	Contact Finish (Plating Code)	Receptacle Part Numbers With .120 [3.05] Mounting Holes	Receptacle Part Numbers With Clinch Nuts
1	9	**1.213** 30.81	**.984** 24.99	**.494** 12.55	**.125** 3.18	A	5745183-1	5747190-2
						B	5745183-2	5747190-1
					.188 4.78	A	5745183-7	5747190-4
						B	—	—
2	15	**1.541** 39.14	**1.312** 33.33	**.494** 12.55	**.125** 3.18	A	5745185-1	5745820-1
						B	—	5745820-2
					.188 4.78	A	5745185-7	—
3	25	**2.088** 53.04	**1.852** 47.04	**.494** 12.55	**.125** 3.18	A	5745187-1	5745886-1
						B	—	5745886-2
					.188 4.78	A	5745187-7	—
						B	5745187-8	—
4	37	**2.729** 69.32	**2.500** 63.50	**.494** 12.55	**.125** 3.18	A	5745189-1	5747315-1
					.188 4.78	A	5745189-7	—
5	50	**2.635** 66.93	**2.406** 61.11	**.605** 15.37	**.125** 3.18	A	5745191-1	5747302-1
					.188 4.78	A	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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HD-20 Front Metal-Shell Straight Posted Connectors

Plug



With Grounding Indents



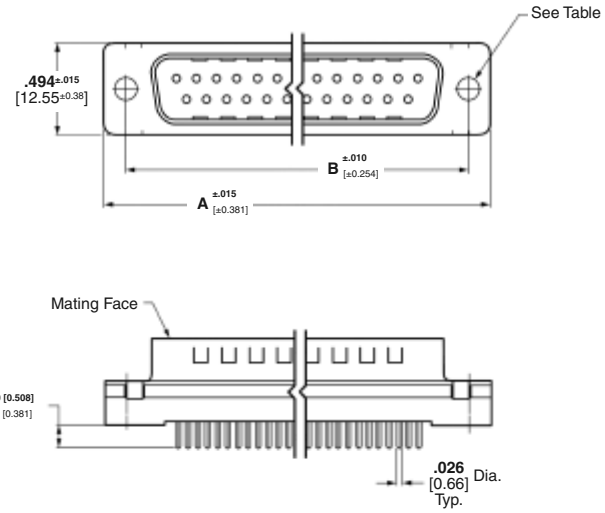
With Threaded Insert



With Fixed Female Screwlock



With Retention



See customer drawings for pcb layouts.

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

Technical Documents:

Product Specification—108-40025

Application Specification—114-40023

Shell Size	No. of Contact Positions	Dimensions A	Dimensions B	Dimensions C*	Contact Finish (Plating Code)	Plug Part Numbers: 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)
1	9	**1.213** 30.81	**.984** 24.99	**.125** 3.18	A	5747871-2	5747871-8	2-5748003-0	1-5747871-4	—
					B	—	—	—	1-5747871-3	—
				.170 4.32	A	5747871-4	—	—	1-5747871-6	—
2	15	**1.541** 39.14	**1.312** 33.33	**.125** 3.18	A	—	5747872-8	—	—	5748026-1
				.170 4.32	A	5747872-4	—	—	1-5747872-6	—
3	25	**2.090** 53.09	**1.852** 47.04	**.125** 3.18	A	5745968-2	5745968-8	2-5747704-0	1-5745968-4	5748027-1
					B	—	5745968-7	—	1-5745968-3	—
				.170 4.32	A	5745968-4	—	—	1-5745968-6	—
					B	—	—	—	1-5745968-5	—
4	37	**2.732** 69.39	**2.500** 63.50	**.125** 3.18	A	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.
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 Front Metal-Shell Straight Posted Connectors (Continued)

Receptacle



With Standard Mounting Holes



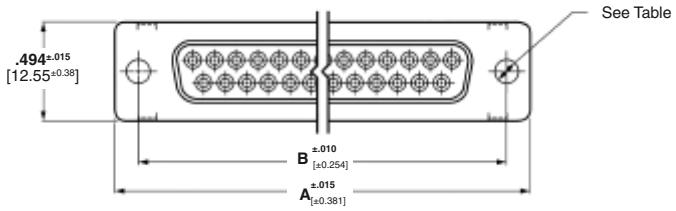
With Threaded Insert

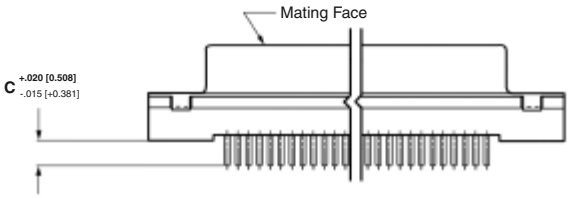


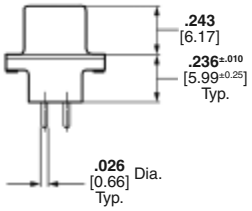
With Fixed Female Screwlock



With Retention







See customer drawings for pcb layouts.

Material and Finish:

Shell—Steel, tin plated

Housing—94V-0 rated thermoplastic, black

Threaded Inserts—Brass, unplated

Female Screwlocks—Zinc

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

Shell Size	No. of Contact Positions	Dimensions A	Dimensions B	Dimensions C*	Contact Finish (Plating Code)	Receptacle Part Numbers: 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)
1	9	**1.216** 30.89	**.984** 24.99	**.125** 3.18	A	5747150-2	5747150-8	2-5747706-0	1-5747150-4	5750678-1
					B	—	5747150-7	—	1-5747150-3	—
				.170 4.32	A	5747150-4	—	—	1-5747150-6	—
					B	—	5747150-9	—	—	—
2	15	**1.541** 39.14	**1.312** 33.33	**.125** 3.18	A	5747299-2	5747299-8	2-5747707-0	1-5747299-4	5787683-1
					B	—	5747299-7	—	—	—
				.170 4.32	A	5747299-4	—	—	1-5747299-6	—
3	25	**2.090** 53.09	**1.852** 47.04	**.125** 3.18	A	5745967-2	5745967-8	2-5747708-0	1-5745967-4	5748612-1
					B	—	5745967-7	1-5745967-0	—	—
				.170 4.32	A	5745967-4	1-5745967-0	—	1-5745967-6	—
					B	—	—	—	1-5745967-5	—
4	37	**2.732** 69.39	**2.500** 63.50	**.125** 3.18	A	5747301-2	5747301-8	2-5747709-0	1-5747301-4	5787685-1
					B	—	5747301-7	—	—	—
				.170 4.32	A	—	—	—	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



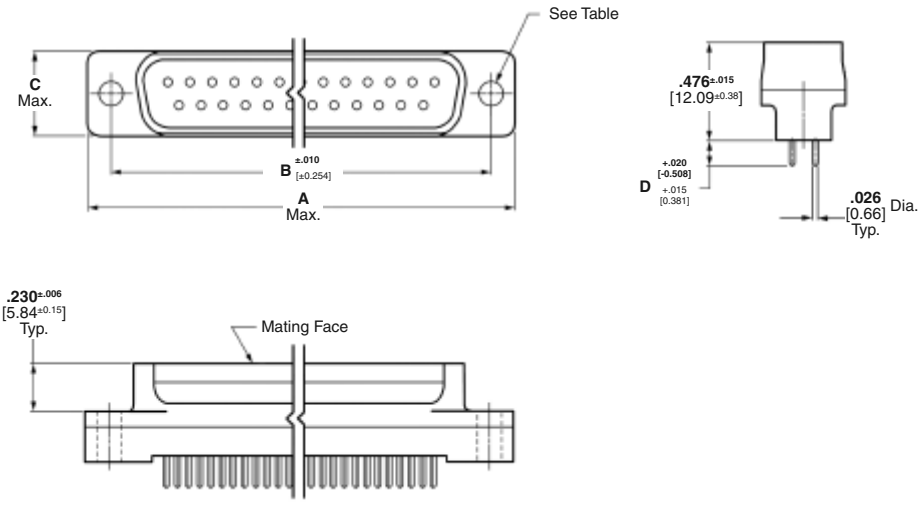
With Standard Mounting Hole



With Threaded Insert



With Fixed Female Screwlock



See customer drawings for pcb layouts.

Material and Finish:

Housing—94V-0 rated thermoplastic, black

Threaded Inserts—Brass, unplated

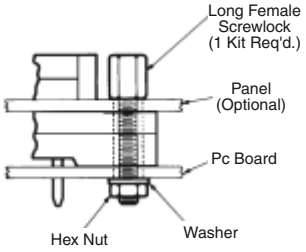
Female Screwlocks—Brass, nickel plated

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

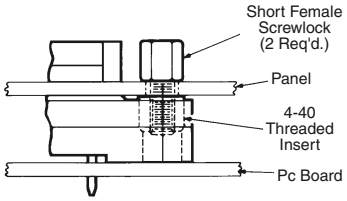
Technical Documents:

Product Specification—108-40025

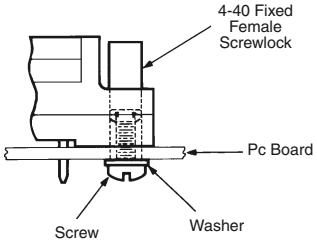
Typical Applications



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

Plug
(Continued)

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

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.

Note: All part numbers are RoHS compliant.

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

Receptacle



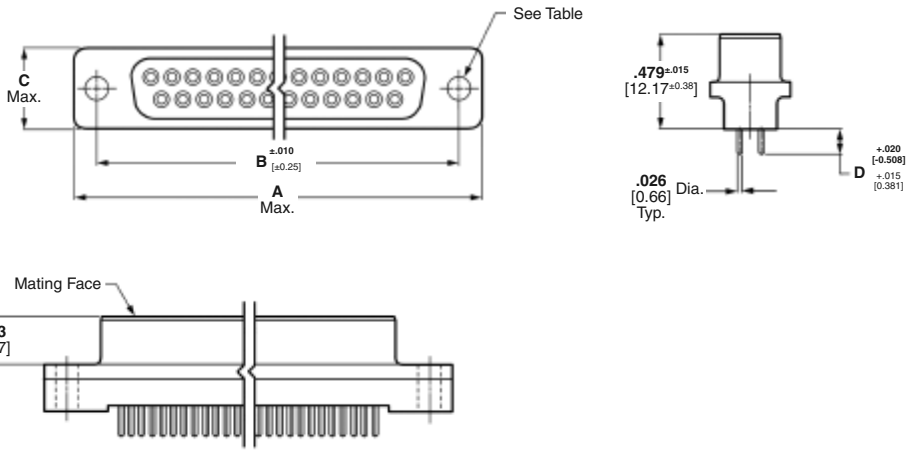
With Standard Mounting Hole



With Threaded Insert



With Fixed Female Screwlock



See customer drawings for pcb layouts.

Material and Finish:

Housing—94V-0 rated thermoplastic, black

Threaded Inserts—Brass, unplated

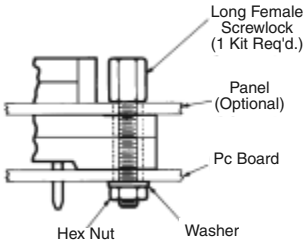
Female Screwlocks—Brass, nickel plated

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

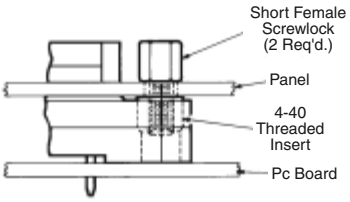
Technical Documents:

Product Specification—108-40025

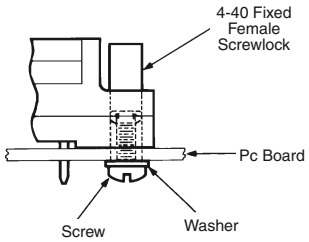
Typical Applications



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 TE using the part nos. specified.

Note: All part numbers are RoHS compliant.

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

Receptacle
(Continued)

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

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

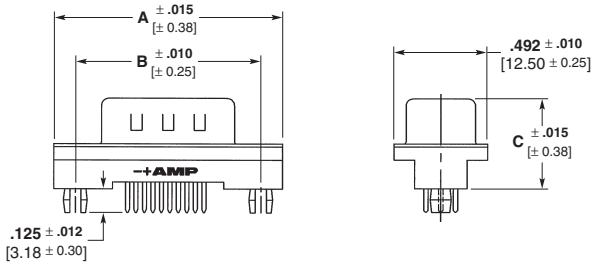
Technical Documents:

Product Specification—108-1092

Application Specification—114-13199

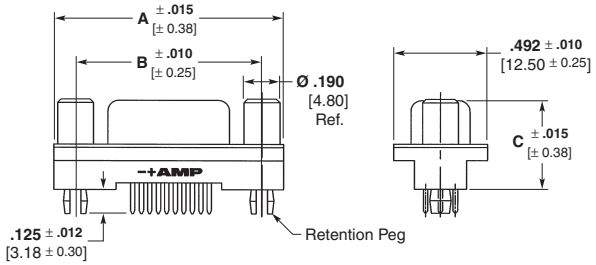
See customer drawings for printed circuit board layouts.

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



Vertical Plug

No. of Contact Positions	Dimensions A	B	C	Mounting Hardware	PCB Mounting Style	Part Numbers 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
	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 Contact Positions	Dimensions A	B	C	Mounting Hardware	PCB Mounting Style	Part Numbers Gold Flash	15µ" Gold	30µ" Gold
15	**1.212** 30.80	**.984** 25.00	**.465** 11.80	4-40 inserts	—	—	5749374-7	5749374-1
	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
	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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HD-20 Front Metal-Shell Straight Posted Connectors With ACTION PIN Contacts

Receptacle



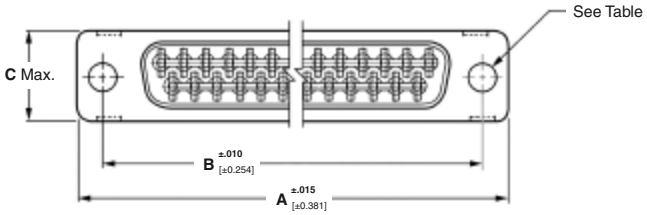
With Standard Mounting Holes

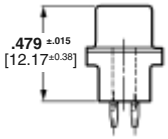


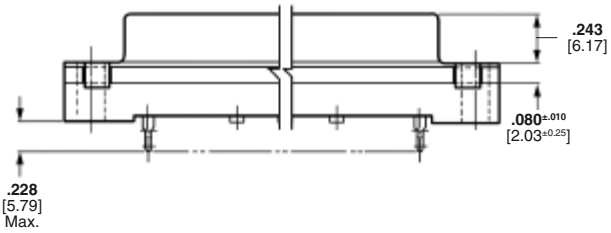
With Threaded Insert



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
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

For .062 [1.57] min. Thick Pc Boards

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

For .093 [2.36] min. Thick Pc Boards

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

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

Plug



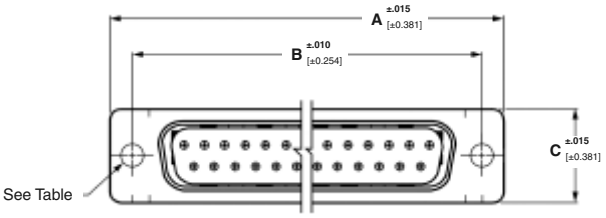
With Standard Mounting Holes

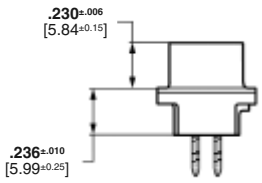


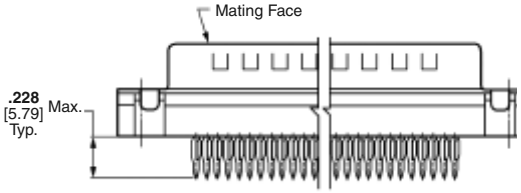
With Threaded Insert



With Fixed Female Screwlock







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

Technical Documents:

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

For .093 [2.36] min. Thick Pc Board

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

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)



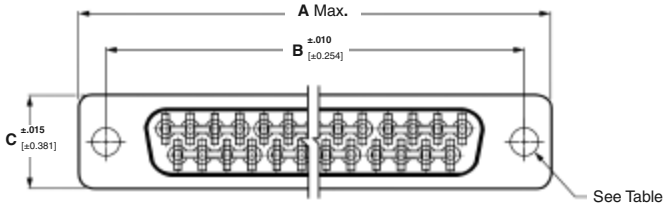
With Standard Mounting Holes

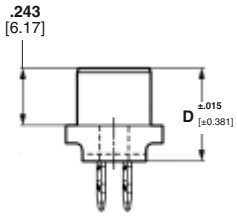


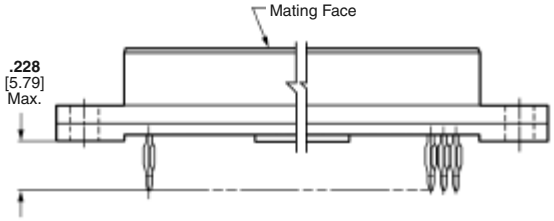
With Threaded Insert



With Fixed Female Screwlock







See customer drawings for pcb layouts.

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

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	No. of Contact Positions	Dimensions A	Dimensions B	Dimensions C	Dimensions D	Profile	Contact Finish (Plating Code)	Receptacle Part Numbers: For .093 [2.36] (min.) Thick Pc Boards: With .120 [3.05] Mounting Holes	For .093 [2.36] (min.) Thick Pc Boards: With Threaded Inserts	For .093 [2.36] (min.) Thick Pc Boards: With Fixed Female Screwlocks	For .062 [1.57] (min.) Thick PC Boards: With .120 [3.05] Mounting Holes	For .062 [1.57] (min.) Thick PC Boards: With Threaded Inserts	For .062 [1.57] (min.) Thick PC Boards: With Fixed Female Screwlocks	Seating Tool Part No.
1	9	**1.221** 31.01	**.984** 24.99	**.410** 10.41	**.395** 10.03	Low	A	—	—	5745454-2	—	—	—	91164-1
					.695 17.65	High	A	—	—	5745455-2	—	—	—	91164-3
2	15	**1.546** 39.27	**1.312** 33.32	**.410** 10.41	**.395** 10.03	Low	A	—	—	5745456-2	—	—	—	91165-1
					.695 17.65	High	A	—	—	—	—	5745612-2	—	91165-3
3	25	**2.095** 53.21	**1.852** 47.04	**.410** 10.41	**.395** 10.03	Low	A	—	—	5745458-2	—	—	—	91168-1
							B	—	—	5745458-1	—	—	—	
					.695 17.65	High	A	—	5745465-2	—	—	—	—	91168-3
4	37	**2.737** 69.52	**2.500** 63.50	**.410** 10.41	**.395** 10.03	Low	A	—	—	5745459-2	5745589-2	—	—	91166-1
5	50	**2.643** 67.13	**2.406** 61.11	**.517** 13.13	**.395** 10.03	Low	A	—	—	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.

Note: All part numbers are RoHS compliant.

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2834055-1 2310537-1 2377783-2 1903112-2 650075-000 SBCHE154R7K SBCHE64R7K 1-962915-1
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