

Right-Angle Posted Connectors



Connector Density	Туре	Style and Shell Finish	No. of Contact Positions	Footprint	Mating Hardware	Board Mounting	Contact Plating (Mating Area/ Solder Tails)	Post Length
HD-22	Plug and	Front Metal-Shell,	15 26 44	.350	Threaded Inserts	Boardlocks	Duplex (0.000030 [0.00076] Gold/Tin)	.125
	Receptacle	Tin Plated (Pg. 52)	44 62 78	[8.89]	Female Screwlocks		Duplex (Gold Flash/Tin)	[3.18]
		Full Metal-Shell With and Without	9 15 25 37	.454 [11.53]	Standard Screws	.120 [3.05]	Duplex (.000030 [0.00076] Gold/Tin)	.125 [3.18]
		Grounding Indents, Tin Plated (Pgs. 71, 139, 155)	37 50	.545 [13.84]	Female Screwlocks	Dia. Holes	Duplex (Gold Flash/Tin)	.220 [5.59]
		Front Metal-Shell With Grounding Indents, Tin Plated	9 15 25	.318 [8.08] .478 [12.14]	.120 [3.05] Dia. Holes Threaded Inserts	.125 [3.18] Dia. Holes	Duplex (.000030 [0.00076] Gold/Tin)	.125 [3.18]
HD-20	Plugs and Receptacles	(Pgs. 55-58, 60-63, 65-67, 131, 134, 138, 143, 150)	37	.590 [14.99]	Female Screwlocks	Boardlocks	Duplex (Gold Flash/Tin)	
					.125 [3.18] Dia. Holes		Duplex	
		All-Plastic (Pgs. 68-70, 132,	9 15	.318 [8.08]	.120 [3.05] Dia. Holes	.125 [3.18] Dia. Holes	(.000030 [0.00076] Gold/Tin)	.125
		133, 135, 136)	25 37	.590 [14.99]	Threaded Inserts	.120 [3.05] Dia. Elliptical Holes	Duplex (Gold Flash/Tin)	[3.18]
					Female Screwlocks	Boardlocks	, ,	

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Right-Angle Posted Connectors (Continued)

Section Contents

Product Facts:

- Flame retardant thermoplastic housing material, UL 94V-0 rated
- HD-20 right-angle connectors are available in 9, 15, 25 and 37 positions (Shell Sizes 1 thru 4) in both plug and receptacle versions; some versions available in 50 position, (Shell Size 5)
- HD-20 stacked connectors are available in 9/9, 15/15, 25/25, and 37/37 positions (Shell Sizes 1 thru 4) in receptacle over receptacle, plug over plug and combination versions
- HD-22 right-angle receptacle connectors are available in 15, 26, 44, 62 and 78 positions (Shell Sizes 1 thru 5)
- Low cost front metal-shell design compatible with full metal-shell connectors
- Integral boardlock versions secure posted connectors to pc boards prior to soldering

HD-20 and HD-22 connector
contacts are available in
plating types to satisfy
different applications

- HD-22 right-angle posted connectors are designed for high temperature applications
- Integral fixed 4-40 threaded inserts and screwlocks are available in both HD-20 and HD-22 connectors
- Connectors are intermateable with any size 20 or 22 subminiature D connectors dimensionally complying with MIL-C-24308

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HD-20 Full Metal-Shell Right-Angle Posted Connectors

HD-20 Front Metal-Shell Right-Angle Posted Connectors

HD-20 All-Plastic Right-Angle Posted Connectors

Right-Angle Stacked Connectors (Centerline-to-centerline height .750 [19.05])

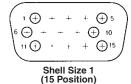
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Connector Density	Туре	Style and Shell Finish	No. of Contact Positions	Footprint	Mating Hardware	Board Mounting	Contact Plating (Mating Area/ Solder Tails)	Post Length
HD-20	Receptacle over Receptacle Plug over Plug Receptacle over Plug Plug Plug over	Front Metal-Shell, Tin Plated (Pgs. 144-149, 151)	9/9 15/15 25/25 37/37 (Std.)	See Customer Drawings	Threaded Inserts Female Screwlocks	.120 [3.05] Dia. Holes Boardlocks	Duplex (.000030 [0.00076] Gold/Tin) (.000010 [0.00025] Gold/Tin) Duplex (Gold Flash/Tin)	. 125 [3.18]
	Receptacle							

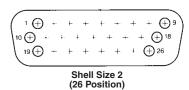


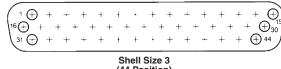
HD-22 and HD-20 Commercial Connectors (AMPLIMITE)

Contact Arrangements

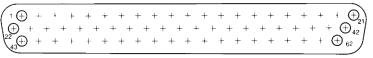
HD-22 Inserts



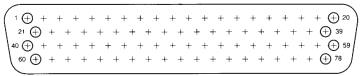




Shell Size 3 (44 Position)

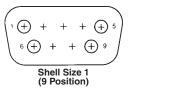


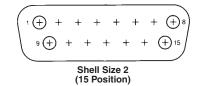
Shell Size 4 (62 Position)



Shell Size 5 (78 Position)

HD-20 Inserts



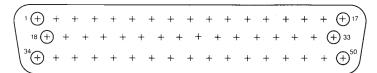




Shell Size 3



Shell Size 4 (37 Position)



Shell Size 5 (50 Position)

Note: Mating face of plug is shown, receptacle is mirror-image.



HD-22 and HD-20 Connectors Performance Characteristics

Cable Connectors

		Connector Type	
	HDP-22	HDE-20	HDP-20
Electrical Characteristics			
Contact Current Rating (One pair of contacts)	22 AWG [0.4mm²] Wire 5.0 amperes	20 AWG [0.6mm²] 3 amperes	20 AWG [0.6mm²] 7.5 amperes
Termination Resistance	15 milliohms (max.)	30 milliohms (max.)	15 milliohms (max.)
Dielectric Withstanding Voltage	1000 VAC min.	1000 VAC min.	1000 VAC min.
Insulation Resistance	5000 megohms min.	5000 megohms min.	5000 megohms min.
Mechanical Characteristics			
Contact Insertion Force	3 lb. max. [13.34 N max.]	N/A	3 lb. max. [13.34 N max.]
Contact Retention	5 lb. min. [22.24 N min.]	7 lb. min. [31.14 N min.]	10 lb. min. [44.48 N min.]
Contact Mating Force (Per contact circuit pair)	8 oz. max. [2.22 N max.]	8 oz. max. [2.22 N max.]	8 oz. max. [2.22 N max.]
Contact Unmating Force (Per contact circuit pair)	.75 oz. min. [0.209 N min.]	.75 oz. min. [0.209 N min.	.75 oz. min. [0.209 N min.]
Tensile Strength	22 AWG—12 lb. [0.4mm²—53.4 N] 24 AWG—8 lb. [0.2mm²—35.6 N] 26 AWG—4.5 lb. [0.15mm²—20.02 N] 28 AWG—2.7 lb. [0.08mm²—12.01 N]	20 AWG—9.5 lb. [0.6mm²—42.3 N] 22 AWG—6 lb. [0.4mm²—26.7 N] 24 AWG—4 lb. [0.2mm²—17.79 N] 26 AWG—2.5 lb. [0.15mm²—11.12 N] 28 AWG—2.5 lb. [0.08mm²—11.12 N] 30 AWG—1 lb. [0.05mm²—4.45 N]	20 AWG—20 lb. [0.6mm²—89 N] 22 AWG—12 lb. [0.4mm²—53.4 N] 24 AWG—8 lb. [0.2mm²—35.6 N] 26 AWG—4.5 lb. [0.15mm²—20.02 N] 28 AWG—2.7 lb. [0.08mm²—12.01 N]
Durability	.000030 [0.00076] gold—500 cycles Gold Flash— 100 cycles	.000030 [0.00076] gold—500 cycles Gold Flash— 100 cycles	.000030 [0.00076] gold—500 cycles Gold Flash— 100 cycles
Environmental Characteristics			
Vibration	Random 20 G's rms max.	Random 20 G's rms max.	Random 20 G's rms max.
Physical Shock	50 G's Duration 11 ms	50 G's Duration 11 ms	50 G's Duration 11 ms

Board Mount Connectors

	Connector Type
	HD-20
Electrical Characteristics	
Single Contact Current Rating (30°C Rise) Duration 11 ms	18 AWG 6.0 amperes 24 AWG 4.3 amperes 28 AWG 2.9 amperes
Termination Resistance	15 milliohms* (max.)
Dielectric Withstanding Voltage	1000 VAC min.**
Insulation Resistance	5000 megohms min.

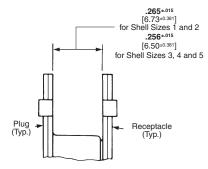
^{*}Stacked Connectors—30 milliohms (max.)
**Stacked Connectors—500 VAC min.

		Connec	tor Type			
		HD-20				
Mechanical Characte	ristics					
Durability		.000030 [0.00076] gold—500 cycles Gold Flash—100 cycles				
	Size	HD-20 Without Grounding Indents	HD-20 With Grounding Indents			
	1	4.5 [20.02]	30.0 [133.5]			
Connector	2	7.5 [33.4]	33.0 [146.8]			
Mating and Unmating Force (lbs. max. over	3	12.5 [55.6]	37.0 [164.6]			
[N max.])	4	18.5 [82.3]	40.0 [177.9]			
	5	25.0 [111.2]	44.0 [195.7]			



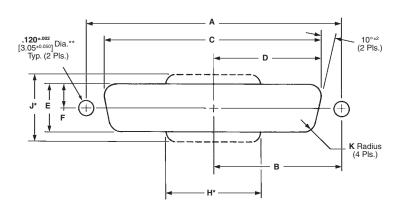
Plug/Receptacle Mating and Panel Mounting Specifications

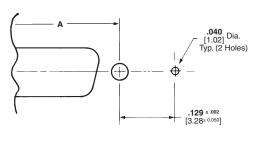
Plug/Receptacle Mating



The .265 [6.73] dimension is required to assure full mating of connector halves. This dimension must be taken into consideration when determining the method of mounting, panel thickness, etc.

Panel Mounting





Cutout for Rear Mount and Short Latching Block

Note: Cutouts are for either plug or receptacle, front or rear panel mount.

Shell Size	Mounting Method		Dimensions							
(Pos.)	Front/Rear Panel	Α	В	С	D	E	F	Н*	J*	K
1	Front	.984 24.99	.492 12.50	.874 22.20	.437 11.10	.513 13.03	.257 6.53	_	_	.083 2.11
(9)	Rear	.984 24.99	.492 12.50	.806 20.47	.403 10.24	.449 11.41	.225 5.72	.550 13.97	.750 19.05	.132 3.35
2 (15)	Front	1.312 33.33	.656 16.66	1.202 30.53	.601 15.27	.513 13.03	.257 6.53	_	_	.083 2.11
	Rear	1.312 33.33	.656 16.66	1.134 28.80	.567 14.40	.449 11.41	.225 5.72	.730 18.54	.750 19.05	.132 3.35
3	Front	1.852 47.04	.926 23.52	1.743 44.27	.872 22.15	.513 13.03	.257 6.53	_	_	.083 2.11
(25)	Rear	1.852 47.04	.926 23.52	1.674 42.52	.837 21.26	.449 11.41	.225 5.72	1.275 32.39	.750 19.05	.132 3.35
4	Front	2.500 63.50	1.250 31.75	2.391 60.73	1.196 30.38	.513 13.03	.257 6.53	_	_	.083 2.11
(37)	Rear	2.500 63.50	1.250 31.75	2.326 59.08	1.163 29.54	.449 11.41	.225 5.72	1.920 46.05	.750 16.13	.132 3.35
5 (50)	Front	2.406 61.11	1.203 30.56	2.297 58.34	1.149 29.19	.623 15.82	.312 7.93	_	_	.083 2.11
	Rear	2.406 61.11	1.203 30.56	2.218 56.34	1.109 28.17	.555 14.10	.278 7.06	1.753 44.52	.750 19.05	.132 3.35

^{*}Panel cutout configuration with H and J dimensions provides clearance for mounting connectors with cable clamps.
**This dimension is .190^{±002} [4.83^{±0.05}] when posted connectors with fixed female screwlocks are rear-panel mounted.

Most plugs and receptacles can be mounted to a panel from either the front or rear, using a variety of accessory hardware. Posted receptacles are rear panel mounted only. Typical examples are shown below.



Typical Front-Panel Mounted Subminiature D Plug



Typical Rear-Panel Mounted Subminiature D Receptacle

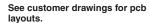
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208



AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors **Hybrid and Mixed Styles**

Product Facts

- Stacked pcb connectors save board real estate
- Wide choice of configurations available
- **■** Front Metal-Shells for EMI/RFI shielding
- Housings made of UL 94V-0 rated thermoplastic
- Plug connectors have builtin grounding indents
- Choice of 4-40 threaded insert or female screwlock mating hardware
- Hybrid styles provide maximum selectivity and permit mixing of signal speeds
- Packaged in plastic trays for ease of handling
- Recognized under the Component Program of the Underwriters Laboratories, Inc. File No. 28476
- **■** Certified by Canadian Standards Association, (SP)® File No. LR 7189





AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors are members of the complete line of AMPLIMITE Subminiature D Connector family which has been accepted by the electronic industry for their rugged design and ease of application.

Stacked connectors add the advantage of reducing overall board real estate normally consumed by individual pcb connectors. The versatility of the AMPLIMITE HD-20 line enables you to select the stacked connector best suited for your specific application.

AMPLIMITE HD-20 Stacked Connectors, Series II offer a high degree of performance and a reduced cost. The line consists of:

■ Receptacle over Receptacle in 9/9, 15/15, 25/25 and 37/37 contact positions

- Plug over Plug in 9/9. 15/15, 25/25 and 37/37 contact positions
- Receptacle over Plug in 9/9, 15/15, 25/25 and 37/37 contact positions
- Plug over Receptacle in a total of 9/9, 15/15, 25/25 and 37/37 contact positions

Configurations are available with a choice of mounting hardware—4-40 threaded inserts and female screwlocks.

Hybrid and Mixed Styles

AMPLIMITE Hybrid and Mixed Stacked Connectors combine a variety of subminiature D connector configurations into a single connector. This permits mixing signal speeds with a substantial reduction in pc board real estate.

All AMPLIMITE Stacked and Mixed PCB Connectors fea-

ture front metal-shells for EMI/RFI shielding, with housings made of UL 94V-0 approved material. The series offers gold plating in 30µ", 10µ" and gold flash on the mating end and tin plating on the termination end, with the entire contact nickel underplated.

Due to the versatility of the AMPLIMITE Hybrid and Mixed lines of connectors any combination with an AMPLIMITE HD-20 Connector as the top connector, HD-22 High Density, and AMPLIMITE .050 Series as the bottom connector can be provided based on your application requirements. Contact Tyco Electronics for additional information.

South America: 55-11-2103-6000



AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors Hybrid and Mixed Styles (Continued)

Material and Finish:

Housing—94V-0 rated thermoplastic, black

Shell—Steel, tin plated

Contacts:

Pins—Brass

Sockets—Phosphor bronze

Contact Plating:

A—Gold flash on mating end, tin on solder tails with overall nickel plating underneath

B—.000010 [0.00025] gold on mating end, tin on solder tails with overall nickel underplate

C—.000030 [0.00076] gold on mating end, tin on solder tails with overall nickel underplate

Boardlocks—Brass, tin plated

Female Screwlocks—Brass, nickel plated

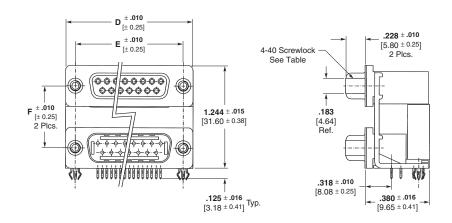
Threaded Inserts—Brass, tin plated Brackets—Zinc

Technical Documents:

Product Specification 108-57517

100-3/31/

See customer drawings for printed circuit board layouts.



Upper		Lower	ı	Dimensions	3	Contact	Mounting	Part		
D-Sub		D-Sub	D	Е	F	Finish	Hardware	Number		
			1.22 30.95	.984 24.99	.750 19.05	Α	4-40 inserts	1734279-1		
			1.22 30.95	.984 24.99	.750 19.05	В	4-40 inserts	1734279-2		
9p Plug	/	9p Plug	1.22 30.95	.984 24.99	.750 19.05	С	4-40 inserts	1734279-3		
9p Flug	/	9p Flug	1.22 30.95	.984 24.99	.750 19.05	А	4-40 fem s/l	1734280-1		
			1.22 30.95	.984 24.99	.750 19.05	С	4-40 fem s/l	1734280-3		
			1.22 30.95	.984 24.99	.750 19.05	Α	4-40 inserts	1734282-1		
9p Plug	/	9p Rcpt.	1.22 30.95	.984 24.99	.750 19.05	В	4-40 inserts	1734282-2		
			1.22 30.95	.984 24.99	.750 19.05	С	4-40 inserts	1734282-3		
			1.22 30.95	.984 24.99	.750 19.05	А	4-40 inserts	1734285-1		
	/				1.22 30.95	.984 24.99	.750 19.05	В	4-40 inserts	1734285-2
On Dont		On Dent	1.22 30.95	.984 24.99	.750 19.05	С	4-40 inserts	1734285-3		
9p Rcpt.		,	,	,	9p Rcpt.	1.22 30.95	.984 24.99	.750 19.05	А	4-40 fem s/l
			1.22 30.95	.984 24.99	.750 19.05	В	4-40 fem s/l	1734286-2		
			1.22 30.95	.984 24.99	.750 19.05	С	4-40 fem s/l	1734286-3		
			1.22 30.95	.984 24.99	.750 19.05	А	4-40 inserts	1734207-1		
9p Rcpt.	/	9p Plug	1.22 30.95	.984 24.99	.750 19.05	В	4-40 inserts	1734207-2		
			1.22 30.95	.984 24.99	.750 19.05	С	4-40 inserts	1734207-3		
			1.55 39.30	1.31 33.30	.750 19.05	А	4-40 inserts	1-1734279-1		
15p Plug	/	15p Plug	1.55 39.30	1.31 33.30	.750 19.05	В	4-40 inserts	1-1734279-2		
			1.55 39.30	1.31 33.30	.750 19.05	С	4-40 inserts	1-1734279-3		
			1.55 39.30	1.31 33.30	.750 19.05	А	4-40 inserts	1-1734282-1		
15p Plug	/	15p Rcpt.	1.55 39.30	1.31 33.30	.750 19.05	В	4-40 inserts	1-1734282-2		
			1.55 39.30	1.31 33.30	.750 19.05	С	4-40 inserts	1-1734282-3		

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AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors Hybrid and Mixed Styles

Upper	Lower		Dimensions	S	Contact	Mounting	Part
D-Sub	D-Sub	D	E	F	Finish	Hardware	Number
		1.55 39.30	1.31 33.30	.750 19.05	Α	4-40 inserts	1-1734285-1
		1.55 39.30	1.31 33.30	.750 19.05	В	4-40 inserts	1-1734285-2
	= = .	1.55 39.30	1.31 33.30	.750 19.05	С	4-40 inserts	1-1734285-3
15p Rcpt.	/ 15p Rcpt.	1.55 39.30	1.31 33.30	.750 19.05	А	4-40 fem s/l	1-1734286-1
		1.55 39.30	1.31 33.30	.750 19.05	В	4-40 fem s/l	1-1734286-2
		1.55 39.30	1.31 33.30	.750 19.05	С	4-40 fem s/l	1-1734286-3
		1.55 39.30	1.31 33.30	.750 19.05	А	4-40 inserts	1-1734207-1
15p Rcpt.	/ 15p Plug	1.55 39.30	1.31 33.30	.750 19.05	В	4-40 inserts	1-1734207-2
		1.55 39.30	1.31 33.30	.750 19.05	С	4-40 inserts	1-1734207-3
		2.09 53.10	1.85 47.04	.750 19.05	А	4-40 inserts	2-1734279-1
25p Plug	/ 25p Plug	2.09 53.10	1.85 47.04	.750 19.05	В	4-40 inserts	2-1734279-2
		2.09 53.10	1.85 47.04	.750 19.05	С	4-40 inserts	2-1734279-3
		2.09 53.10	1.85 47.04	.750 19.05	А	4-40 inserts	2-1734282-1
25p Plug	/ 25p Rcpt.	2.09 53.10	1.85 47.04	.750 19.05	В	4-40 inserts	2-1734282-2
		2.09 53.10	1.85 47.04	.750 19.05	С	4-40 inserts	2-1734282-3
		2.09 53.10	1.85 47.04	.750 19.05	Α	4-40 inserts	2-1734285-1
		2.09 53.10	1.85 47.04	.750 19.05	В	4-40 inserts	2-1734285-2
25p Rcpt.	/ 25p Rcpt.	2.09 53.10	1.85 47.04	.750 19.05	С	4-40 inserts	2-1734285-3
25p Hopt.	/ 25p Hopt.	2.09 53.10	1.85 47.04	.750 19.05	А	4-40 fem s/l	2-1734286-1
		2.09 53.10	1.85 47.04	.750 19.05	В	4-40 fem s/l	2-1734286-2
		2.09 53.10	1.85 47.04	.750 19.05	С	4-40 fem s/l	2-1734286-3
		2.09 53.10	1.85 47.04	.750 19.05	Α	4-40 inserts	2-1734207-1
25p Rcpt.	/ 25p Plug	2.09 53.10	1.85 47.04	.750 19.05	В	4-40 inserts	2-1734207-2
		2.09 53.10	1.85 47.04	.750 19.05	С	4-40 inserts	2-1734207-3
		2.73 69.34	2.500 63.50	.750 19.05	Α	4-40 inserts	3-1734279-1
37p Plug	/ 37p Plug	2.73 69.34	2.500 63.50	.750 19.05	В	4-40 inserts	3-1734279-2
		2.73 69.34	2.500 63.50	.750 19.05	С	4-40 inserts	3-1734279-3
		2.73 69.34	2.500 63.50	.750 19.05	Α	4-40 inserts	3-1734282-1
37p Plug	/ 37p Rcpt.	2.73 69.34	2.500 63.50	.750 19.05	В	4-40 inserts	3-1734282-2
		2.73 69.34	2.500 63.50	.750 19.05	С	4-40 inserts	3-1734282-3

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AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors Hybrid and Mixed Styles (Continued)

Upper	Lower	I	Dimensions	3	Contact	Mounting	Part
D-Sub	D-Sub	D	E	F	Finish	Hardware	Number
		2.73 69.34	2.500 63.50	.750 19.05	А	4-40 inserts	3-1734285-
		2.73 69.34	2.500 63.50	.750 19.05	В	4-40 inserts	3-1734285-
27n Dont	/ OZn Dont	2.73 69.34	2.500 63.50	.750 19.05	С	4-40 inserts	3-1734285-
37p Rcpt.	/ 37p Rcpt.	2.73 69.34	2.500 63.50	.750 19.05	А	4-40 fem s/l	3-1734286-
		2.73 69.34	2.500 63.50	.750 19.05	В	4-40 fem s/l	3-1734286
		2.73 69.34	2.500 63.50	.750 19.05	С	4-40 fem s/l	3-1734286
		2.73 69.34	2.500 63.50	.750 19.05	А	4-40 inserts	3-1734207
37p Rcpt.	/ 37p Plug	2.73 69.34	2.500 63.50	.750 19.05	В	4-40 inserts	3-1734207
		2.73 69.34	2.500 63.50	.750 19.05	С	4-40 inserts	3-1734207

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AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors Hybrid and Mixed Styles

HD-20 Front Metal Shell, Right-Angle AMPLIMITE Connectors

Material and Finish:

Housings and Pin Spacer—94V-0 rated thermoplastic, black

Contacts:

Sockets—Phosphor bronze or brass

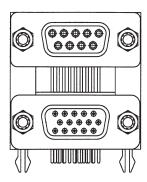
Contact Plating-

Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Shell—Steel, tin plated (1-1734870-1) Steel, nickel plated (1734870-1)

Boardlocks—Copper alloy, plated tin

Bracket—Steel



9 Position HD-20 Receptacle over 15 Position HD-22 Receptacle Part No. 1734870-1 (without Female Screwlocks) Part No. 1-1734870-1 (as shown, with Female Screwlocks)



AMPLIMITE HD-20 Subminiature D Stacked PCB Connectors Hybrid and Mixed Styles (Continued)

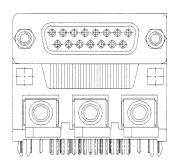
HD-20 Front Metal Shell, Right-Angle Connectors

Material and Finish:

Housing—94V-0 rated PBT, see table Contacts—Phosphor bronze or brass HD22 Receptacle Contact Plating—

Gold flash on contact area, tin on solder tail area, all over nickel underplated

Audio Jack—.000100 [.00254] min. tin over nickel underplate



15 Position HD-20 Receptacle over 3 Position Audio Plug

Description	Part Number
With female screwlocks & color-coded audio ¹	1734287-2
With color-coded audio ¹	1-1734287-2

¹ Color coded audio: Audio line in — light blue Audio line out — lime Microphone — pink

High-Rise Connectors

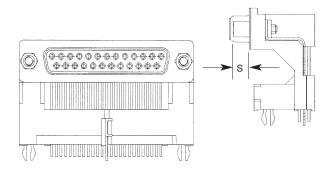
Material and Finish:

Housing—94V-0 rated thermoplastic, burgundy

Contacts—Phosphor bronze

Contact Plating:

A—.000010 [.000254] gold on mating area, tin on solder tails, all over nickel



High-Rise 25 Position HD-20 Receptacle

Dimension S	Plating Code	Part Number	PC 99
.236 6.00	А	_	2-1734024-3



AMPLIMITE 2000 Subminiature D Connectors

Product Facts

- Flame retardant housings, rated up to 105°C
- Front metal-shell design
- Duplex plated gold flash or .000015 [0.00038] min. gold on mating end, tin on solder end, all over nickel underplate
- With boardlocks and 4-40 threads or female screwlocks
- Designed to Office Class II
- 9, 15 & 25 right-angle plugs and receptacles
- Recognized under the Component Program of the Underwriters
 Laboratories, Inc.
 File No. E28476

See customer drawings for circuit board layout.



AMPLIMITE 2000

Subminiature D connectors represent the latest break-through in economical Subminiature D connector design.

Presently available in the more popular sizes — 9-, 15- and 25-receptacles and plugs with a .318 [8.08] printed circuit board footprint, the AMPLIMITE 2000 connector line features front metal-shell RFI/EMI protection, flame retardant housings with integral 4-40 threads, boardlocks, and duplex plated gold-overnickel contacts.



AMPLIMITE 2000 Subminiature Connectors (Continued)

HD-20 Front Metal Shell Right-Angle Connectors

Material and Finish:

Housing—94V-0 rated thermoplastic, black

Shell—Steel, nickel plated

Contacts:

Pins—Brass

Sockets—Phosphor bronze

Contact Plating:

A—Gold flash on mating end, tin on solder tails with overall nickel underplate

B—.000015 [0.00038] gold on mating end, tin on solder tails with overall nickel underplate

Boardlocks-Brass, tin plated

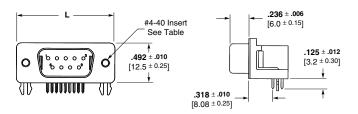
Female Screwlocks—Brass, nickel plated

Threaded Inserts—Brass, nickel plated

Technical Documents:

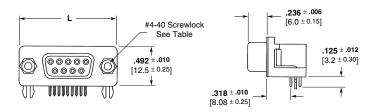
Product Specification

108-57541



Typical Plug

_					
	Shell Size	Contact Finish	Dimension L Ref.	W ith Female Screwlocks	W ith 4—40 Threaded Inserts
-	9	Α	1.210	1734351-1	1734352-1
	9	В	30.80	1734351-2	1734352-2
_	15	Α	1.540	_	1734360-1
		В	39.20		1734360-2



Typical Receptacle

Shell Size	Contact Finish	Dimension L Ref.	W ith Female Screwlocks	W ith 4—40 Threaded Inserts
9	Α	1.210	1734354-1	1734348-1
9	В	30.80	1734354-2	1734348-2
15	Α	1.540	1734357-1	1734355-1
15	В	39.20	1734357-2	1734355-2
25	Α	2.090	1734349-1	1734350-1
25	В	53.10	1734349-2	1734350-2



HD-20 and HD-22 Slimline Connectors

2 Rows of Soldertails

Material and Finish:

Housing—94V-0 rated thermoplastic, black

Shell—Low carbon steel, nickel plated

Contacts—Phosphor bronze or brass

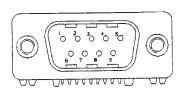
Contact Plating—Gold flash on mating area; .000100 [0.00254] min. tin on solder tail area; overall .000050 [0.00127] min. nickel underplate

Boardlocks—Brass, tin plated over nickel underplate

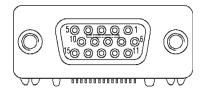
Threaded Inserts—Brass, nickel plated

Technical Documents: Product Specification

108-57541



9 Position Plug Part Number 1734340-1



15 Position VESA Receptacle HD-22 Part Number 1734341-1

1 Row of Soldertails

Material and Finish:

Housing—94V-0 rated thermoplastic, black

Shell—Low carbon steel, nickel plated

Contacts—Brass

Contact Plating—.000015 [0.00038] min. gold on mating area; .000100 [0.00254] min. tin on solder tail area; overall .000050 [0.00127] min. nickel underplate

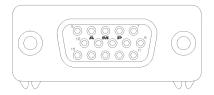
Boardlocks-Brass, tin plated over nickel underplate

Threaded Inserts—Brass, nickel plated

Technical Documents:

Product Specification

108-57541



15 Position VESA Receptacle HD-22 Part Number 1734335-1



HD-22 Right-Angle Posted Subminiature D Connectors

Product Facts

- **■** Flame retardant thermoplastic housing material, UL94V-0 rated
- Low cost front metal shell design compatible with full metal-shell connectors
- Integral boardlock versions secure connectors to pc boards prior to soldering
- Contacts available in platings to satisfy different applications
- Integral threaded inserts and screwlocks available
- Recognized under the Component Program of Underwriters Laboratories, Inc., File No. E28476



HD-22 Front Metal Shell .350 [8.89] PCB Footprint





Receptacle

www.tycoelectronics.com



HD-22 Right-Angle Posted Subminiature D Connectors (Continued)

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, .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 plated

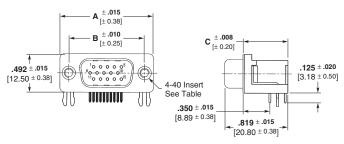
Threaded Inserts—Brass, nickel plated

Technical Documents:

Product Specification—108-1092 **Application Specification**— 114-13198

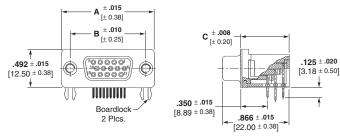
See customer drawings for printed circuit board layouts.

Recognized under the Component Program of Underwriters Laboratories, Inc., File No. E28476



Right-Angle Plug

No. of	D	imensio	ns	Mounting	PCB		Part Numbers	
Contact Positions	A	В	С	Hardware	Mounting Style	Gold Flash	15K" Goĺd	30K" Goĺd
15	1.212 30.81	.984 24.99	.582 14.80	4-40 inserts	board locks	_	5749767-2	5749767-1
15	1.212 30.81	.984 24.99	.582 14.80	4-40 screw locks	board locks	5749768-3	5749768-2	5749768-1
26	1.543 39.20	1.312 33.32	.583 14.81	4-40 inserts	board locks	5749769-3	5749769-2	5749769-1
44	2.089 53.05	1.852 47.04	.593 15.06	4-40 inserts	board locks	5749771-3	5749771-2	5749771-1
62	2.732 69.40	2.500 63.50	.593 15.06	4-40 inserts	board locks	5749639-3	5749639-2	5749639-1
78	2.638 67.00	2.400 61.00	.693 17.60	4-40 screw locks	board locks	5749234-3	5749234-2	_



Right-Angle Receptacle

No. of	Dimensions			Mounting	PCB		Part Numbers			
Contact Positions	A	В	С	Hardware	Mounting Style	Gold Flash	15K" Gold	30K" Gold		
15	1.212 30.81	.984 25.00	.630 16.00	4-40 inserts	board locks	1-1734530-1	1-1734530-2	1-1734530-3		
15	1.212 30.81	.984 25.00	.630 16.00	4-40 screw locks	board locks	1734530-1	1734530-2	1734530-3		
15 VESA	1.212 30.81	.984 25.00	.630 16.00	4-40 inserts	board locks	1734344-1	_	2-1734344-3		
	1.212 30.80	.984 25.00	.630 16.00	4-40 screw locks	board locks	1-1734344-1	_	_		
26	1.543 39.20	1.311 44.32	.593 15.06	4-40 inserts	board locks	2-5748481-3	2-5748481-2	5748481-5		
20	1.543 39.20	1.311 44.32	.593 15.06	4-40 screw locks	board locks	2-5748481-5	2-5748481-4	5748481-6		
44	2.089 53.05	1.852 47.04	.583 14.81	4-40 inserts	board locks	2-5748482-4	2-5748482-3	5748482-5		
44	2.089 53.05	1.852 47.04	.583 14.81	4-40 screw locks	board locks	_	2-5748482-5	_		
62	2.732 69.40	2.500 63.50	.583 14.81	4-40 inserts	board locks	2-5748394-4	2-5748394-3	5748394-5		
02	2.732 69.40	2.500 63.50	.583 14.81	4-40 screw locks	board locks	2-5748394-6	2-5748394-5	5748394-6		
78	2.638 67.00	2.400 61.00	.693 17.60	4-40 inserts	board locks	2-5748483-1	2-5748483-0	5748483-5		
	2.638 67.00	2.400 61.00	.693 17.60	4-40 screw locks	board locks	_	2-5748483-2	5748483-6		



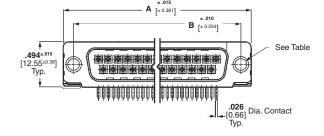
HD-20 Front Metal-Shell Right-Angle Posted Connectors 318 Mount

Post Size—.026 [0.66] Dia.

Plug



With Grounding Indents and Grounding Straps

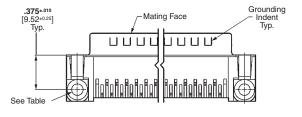


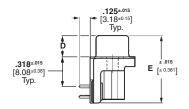


With Threaded Insert



With Fixed Female Screwlock





Material and Finish:

Front Shell—Steel, tin plated

Housing—94V-0 rated thermoplastic,

Eyelets-Brass, tin plated

Threaded Inserts—Zinc

Female Screwlock—Zinc

Boardlocks—Copper alloy, tin plated

Pin Contacts (Posted)—Brass,

duplex plated as follows:

A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025

Application Specification—

114-40010

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

									Plug Par	t Numbers			
01	No. of		Dimen	oiono		Contact	Wi	Without Boardlocks			With Boardlocks		
Shell Size	Contact Positions	Α	В	D	E	Finish (Plating Code)	With Standard Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks	With Standard Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks	
	9	0 1.213 .984 .235	.733	Α	5747250-2	5747250-4	5747250-6	5747840-2	5747840-4	5747840-6			
'	3	30.81	24.99	5.97	18.62	В	_	5747250-3	_	_	5747840-3	5747840-5	
2	15	1.541	1.312	.235	.733	Α	5747236-2	5747236-4	5747236-6	5747841-2	5747841-4	5747841-6	
2	15	39.14 33.33	33.33	5.97	18.62	В	_	5747236-4	_	_	5747841-3	_	
3	25	2.088	1.852	.230	.738	Α	5747238-2	5747238-4	5747238-6	5747842-2	5747842-4	5747842-6	
3	25	53.04	47.04	5.84	18.75	В	5747238-2	5747238-3	_	_	5747842-3	5747842-5	
	37	2.729	2.500	.230	.740	Α	_	5747252-4	_	5747843-2	5747843-4	5747843-6	
4		69.32		18.80	В	_	_	_	_	5747843-3			

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

2. Recommended pc board thickness is .062 [1.58] for connectors with boardlocks and .093 [2.36] max. for all others.

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



HD-20 Front Metal-Shell Right-Angle Posted Connectors 318 Mount (Continued)

Post Size—.026 [0.66] Dia.

Receptacle



With Grounding Straps

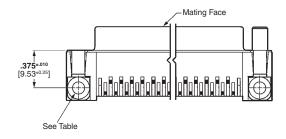


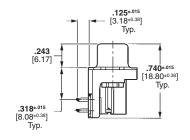
With Threaded Insert



With Fixed Female Screwlock

A [= 0.381] A [= 0.284] B [= 0.254] B [= 0.254] See Table Occion [Occion [Typ.] Dia.





Material and Finish:

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

Eyelets—Brass, tin plated

Threaded Inserts—Zinc

Female Screwlock—Zinc

Boardlocks—Copper alloy, tin plated

Socket Contacts (Posted)-

Phosphor bronze, duplex plated as follows:

A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 Application Specification— 114-40010

						Receptacle Part Numbers								
	No. of	Dimensions		Contact	W	ithout Boardlo	ocks	,	With Boardlocks					
Shell Size	Contact Positions	A	В	Finish (Plating Code)	With Standard Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks	With Standard Mounting Holes	With Threaded Inserts	With Fixed Female Screwlocks				
	1 9		.984	Α	5745781-2	5745781-4	5745781-6	5747844-2	5747844-4	5747844-6				
1	9	30.81	24.99	В	_	5745781-3	_	_	5747844-3	5747844-5				
2	15	1.541	1.312	Α	5745782-2	5745782-4	5745782-6	_	5747845-4	5747845-6				
2	15	39.14	33.33	В	_	_	_	_	5747845-3	5747845-5				
3	25	2.088	1.852	Α	5745783-2	5745783-4	5745783-6	5747846-2	5747846-4	5747846-6				
3	25	53.04	47.04	В	_	5745783-3	5745783-5	_	5747846-3	5747846-5				
4	37	2.729 69.32			5745784-2	5745784-4	5745784-6	_	5747847-4	5747847-6				

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

2. Recommended pc board thickness is .062 [1.58] for connectors with boardlocks and .093 [2.36] max. for all others.

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



HD-20 Front Metal-Shell Right-Angle Posted Connectors 318 Mount (Continued)

Post Size—.026 [0.66] Dia.

Plug



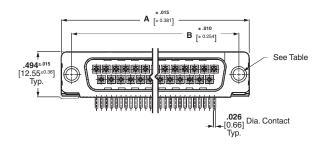
With Grounding Indents and Grounding Straps

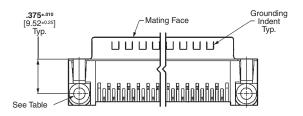


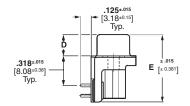
With Threaded Insert



With Fixed Female Screwlock







Material and Finish:

Front Shell—Steel, tin plated

Housing—94V-0 rated thermoplastic, compatible with standard wave, vapor phase, and infra-red reflow (SMT) soldering, black

Eyelets-Brass, tin plated

Threaded Inserts—Zinc

Female Screwlock—Zinc

Boardlocks—Copper alloy, tin plated

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

A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 Application Specification— 114-40010

Shell	No. of Contact Positions		Dimen	sions		Contact Finish	Plug Part Numbers With Boardlocks	
Size		Α	В	D	E	(Plating Code)	With Threaded Inserts	With Fixed Female Screwlocks
	9	1.213	.984	.235	.733	Α	5788792-1	5788793-1
'	9	30.81	24.99	5.97	18.62	В	5788792-2	5788793-2
	3 25	25 2.088 53.04	1.852	.230	.738	Α	5788794-1	5788795-1
3			53.04	47.04	5.84	18.75	В	5788794-2

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

- Recommended pc board thickness is .062 [1.58] for connectors with boardlocks and .093 [2.36] max. for all others.
- 3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.



HD-20 Front Metal-Shell Right-Angle Posted Connectors 318 Mount (Continued)

Post Size—.026 [0.66] Dia.

Receptacle



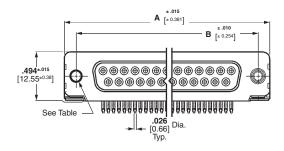
With Grounding Straps

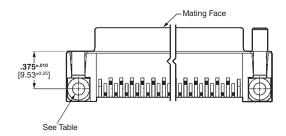


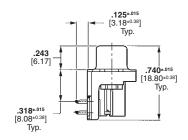
With Threaded Insert



With Fixed Female Screwlock







Material and Finish:

Front Shell—Steel, tin plated

Housing—94V-0 rated thermoplastic, compatible with standard wave, vapor phase, and infra-red reflow (SMT) soldering, black

Eyelets-Brass, tin plated

Threaded Inserts—Zinc

Female Screwlock—Zinc

Boardlocks—Copper alloy, tin plated Socket Contacts (Posted)-

Phosphor bronze, duplex plated as fol-

A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents: Product Specification—108-40025 Application Specification-

114-40010

				Contact	Receptacle Part Numbers			
Shell	No. of	Dime	Dimensions A B		Without Boardlocks	With Boardlocks		
Size	Contact Positions	Α			With Fixed Female Screwlocks	With Threaded Inserts	With Fixed Female Screwlocks	
-1	1 9	1.213	.984	Α	5788803-1	5788796-1	5788797-1	
'		30.81	24.99	В	_	5788796-2	5788797-2	
	4.5	1.541	1.312	Α	_	5788798-1	5788799-1	
2	15	39.14	33.33	В	_	5788798-1	_	
	0.5	2.088	1.852	Α	_	5788800-1	5788801-1	
3	25	53.04	47.04	В	_	5788800-2	5788801-2	
4	37	2.729 69.32	2.500 63.50	Α	_	5788802-1	_	

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

- 2. Recommended pc board thickness is .062 [1.58] for connectors with boardlocks and .093 [2.36] max. for
- 3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.



HD-20 Full Metal-Shell Right-Angle Posted Connectors 454 Mount

Post Size—.025 [0.64] Sq.

Receptacle



Material and Finish:

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

Contacts (Posted):

Pin—Brass

Socket—Phosphor bronze

Contact Plating:

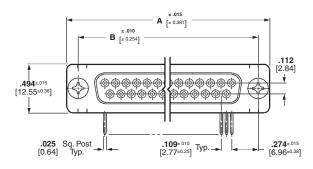
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

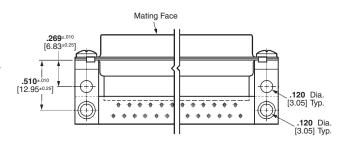
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

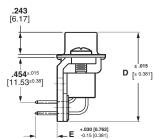
Technical Documents:

Product Specification—108-40025 Application Specification— 114-40013

See customer drawings for printed circuit board layouts.







Shell Size	No. of		Dime		Contact Finish	Part			
Shell Size	Contact Positions	Α	В	D	E	(Plating Code)	Number		
					.125	Α	5745438-4		
4	9	1.213	.984	.915	3.18	В	5745438-3		
'	30.81 24.99 23.24	.220 5.59	В	5745438-1					
0	15	15	15	1.541	1.312	915	.125 3.18	А	5745439-4
2		39.14	33.33	23.24	.220 5.59	А	5745439-2		
3	25	2.088	1.852	.919	.125 3.18	А	5745440-4		
3	25	53.04	47.04	23.34	.220 5.59	В	5745440-1		
4	27	2.729	2.500	.919	.125 3.18	А	5745441-4		
4	37	69.32	63.50	23.34	.220 5.59	В	_		

Notes: 1. All connectors are preloaded with size 20 DF posted contacts; plugs with pin contacts and receptacles with

2. .125 [3.18] post length is recommended for pc board thickness of .093 [2.36] max.; .220 [5.59] post length is recommended for pc board thickness of .125 [3.18] max.

Note: All part numbers are RoHS compliant.

www.tycoelectronics.com



HD-20 Full Metal-Shell Right-Angle Posted Connectors 454 Mount (Continued)

Post Size—.025 [0.64] Sq.

Plug



Without Grounding Indents



With Grounding Indents

Material and Finish:

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

Contacts (Posted):

Pin—Brass

Socket-Phosphor bronze

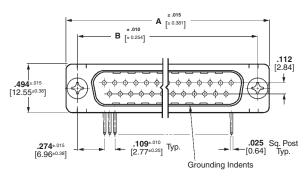
Contact Plating:

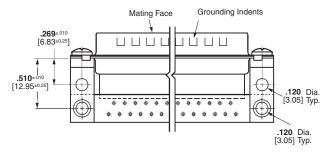
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

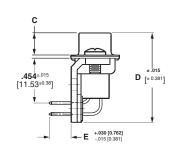
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 Application Specification— 114-40013







Dart Numbers

	No. of			Contact Finish	Part Numbers			
Shell Size	Contact Positions	Α	В	Dimension C	D	E	(Plating Code)	With Grounding Indents
						.125	Α	5745434-8
1	9 1.213 .984 .235 .915 30.81 24.99 5.97 23.24	3.18	В	_				
'		30.81	24.99	5.97	23.24	.220 5.59	В	_
2	15	1.541	1.312	.235	.915	.125 3.18	Α	5745435-8
2		39.14 33.33	33.33	33 5.97	23.24	.220 5.59	Α	_
3	25	2.088	1.852	.230	.919	.125 3.18	Α	_
	25	53.04	47.04	5.84	23.34	.220 5.59	В	5745436-3
4	27	2.729	2.500	.230	.919	.125 3.18	Α	5745437-8
4	37	69.32	63.50 5.84		23.34	.220 5.59	В	5745437-3

Notes: 1. All connectors are preloaded with size 20 DF posted contacts; plugs with pin contacts and receptacles with socket contacts.

2. .125 [3.18] post length is recommended for pc board thickness of .093 [2.36] max.; .220 [5.59] post length is recommended for pc board thickness of .125 [3.18] max.



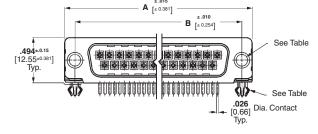
HD-20 Front Metal-Shell Right-Angle Posted Connectors 478 Mount

Post Size—.026 [0.66] Dia.

Plug



With Grounding Indents and Grounding Straps







With Fixed Female Screwlock

Material and Finish:

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

Eyelets-Brass, tin plated

Threaded Inserts—Zinc

Female Screwlock—Zinc

Boardlocks—Copper alloy, tin plated

Pin Contacts (Posted)—Brass,

duplex plated as follows:

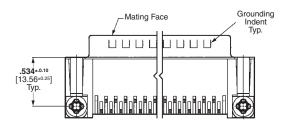
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

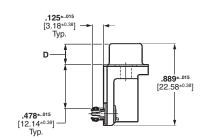
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 Application Specification— 114-40010

See customer drawings for printed circuit board layouts.





						Plug Par	t Number
Shell	No. of	Г	Dimension	ıs	Contact Finish (Plating Code)	With Bo	ardlocks
Size	Contact Positions	Α	В	D		With Threaded Inserts	With Fixed Female Screwlocks
1	9	1.213 30.81	.984 24.99	.235 5.97	А	5747848-4	_
3	25	2.088 53.04	1.852 47.04	.230 5.84	Α	_	5747850-6

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

Recommended pc board thickness is .062 [1.58] for connectors with boardlocks and .093 [2.36] max. for all others.

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



HD-20 Front Metal-Shell Right-Angle Posted Connectors 478 Mount (Continued)

Post Size—.026 [0.66] Dia.

Receptacle



With Grounding Straps



With Threaded Insert



With Fixed Female Screwlock

Material and Finish:

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

Eyelets-Brass, tin plated

Threaded Inserts—Zinc

Female Screwlock—Zinc

Boardlocks—Copper alloy, tin plated

Socket Contacts (Posted)-

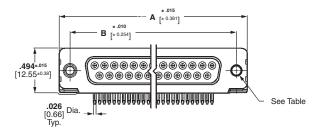
Phosphor bronze, duplex plated as follows:

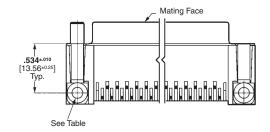
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

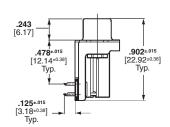
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 Application Specification— 114-40010







				_	Receptacle Part Numbers		
Shell	No. of	Dimensions		Contact Finish	Without Boardlocks	With Boardlocks	
Size	Contact Positions	Α	В	(Plating Code)	With Threaded Inserts	With Threaded Inserts	
1	9	1.213 30.81	.984 24.99	A	5747418-4	5747852-4	

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

- 2. Recommended pc board thickness is .062 [1.58] for connectors with boardlocks and .093 [2.36] max. for all others.
- 3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.



HD-20 Full Metal-Shell Right-Angle Posted Connectors 545 Mount

Post Size—.025 [0.64] Sq.

Plug



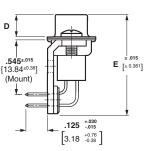
Without Grounding Indents



With Grounding Indents



With 4-40 Female Screwlocks



With Standard Mounting Screws

.125 +.030 -.015

3.18 +0.76 -0.38

With 4-40 Female Screwlocks

[13.84±0.38]

(Mount)

E [± 0.381]

Material and Finish:

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

Female Screwlock—Steel, zinc plated

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

A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 Application Specification— 114-40013

See customer drawings for printed circuit board layouts.

								Plu	Plug Part Numbers			
Shell Size	No. of Contact						Contact Finish (Plating	Without Grounding Indents	With Groundin	With Grounding Indents		
	Pos.	Α	В	С	D	E	(Code)	With Standard Mounting Screws*	With Standard Mounting Screws	With Female Screwlocks		
1	9	1.213 30.81	.984 24.99	.494 12.55	.235 5.99	1.025 26.04	Α	5745351-2	5745351-4	5747197-4		
2	15		1.312	.494	.235	1.025	Α	_	5745352-4	_		
2	15	39.14	33.33	12.55	5.99	26.04	В	5745352-1	_	_		
3	25	2.088 53.04	1.852 47.04	.494 12.55	.230 5.84	1.029 26.14	А	_	_	5747022-2		
4	37		2.500 63.50	.494 12.55	.230 5.84	1.029 26.14	А	_	5745354-4	_		
5	50	2.635 66.93	2.406 61.11	.605 15.37	.230 5.84	1.149 29.19	А	_	5745355-4	5747497-4		

*These plugs can be made available with female screwlocks, consult Tyco Electronics.

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

2. Recommended pc board thickness is .093 [2.36] max.

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

Note: All part numbers are RoHS compliant.

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 Full Metal-Shell Right-Angle Posted Connectors 545 Mount (Continued)

Post Size—.025 [0.64] Sq.

Receptacle





With 4-40 **Female Screwlocks**

Material and Finish:

Shell—Steel, tin plated

Insert—94V-0 rated thermoplastic,

Female Screwlock—Steel, zinc plated

Socket Contacts (Posted)-

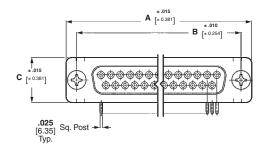
Phosphor bronze, duplex plated as

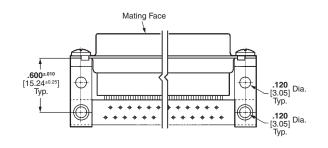
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

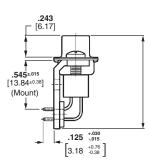
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 Application Specification-114-40013







Shell	No. of		Dimensions				Receptacle Pa	Receptacle Part Numbers	
Size	Contact Positions	Α	В	С	E	(Plating Code)	With Standard Mounting Screws	With Female Screwlocks	
-	9	1.213	.984	.494	1.033	Α	5745112-2	5747020-2	
1	9	30.81	24.99	12.55	26.24	В	_	5747020-1	
2	15	1.541 39.14	1.312 33.33	.494 12.55	1.033 26.24	Α	5745113-2	5747021-2	
3	25	2.088 53.04	1.852 47.04	.494 12.55	1.033 26.24	Α	5745114-2	5745536-2	
4	37	2.729 69.32	2.500 63.50	.494 12.55	1.033 26.24	Α	5745115-2	_	
5	5 50 2.6		2.406	.605	1.153	Α	5745116-2	5747193-2	
5	50	66.93		15.37	29.29	В	5745116-1	5747193-1	

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

- 2. Recommended pc board thickness is .093 [2.36] max.

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



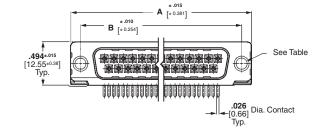
HD-20 Front Metal-Shell Right-Angle Posted Connectors 590 Mount

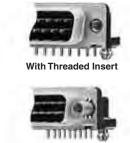
Post Size—.026 [0.66] Dia.

Plug

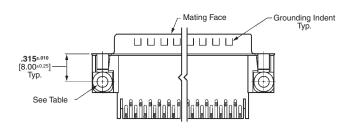


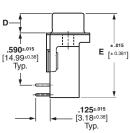
With Grounding Indents and Grounding Straps





With Fixed Female Screwlock





Material and Finish:

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

Eyelets-Brass, tin plated

Threaded Inserts—Zinc

Female Screwlock—Zinc

Boardlocks—Copper alloy, tin plated

Pin Contacts (Posted)—Brass,

duplex plated as follows:

A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

B—Gold flash on mating end, tin on termination end, with entire contact

Technical Documents:

Product Specification—108-40025

Application Specification-

114-40010

							Plug	Part Numbers	Part Numbers	
Shell	No. of	Dimensions				Contact Finish	Without Boardlocks	With Boardlocks		
Size	Contact Positions	A	В	D	Е	(Plating Code)	With Threaded Inserts	With Threaded Inserts	With Fixed Female Screwlocks	
-1	9	1.213	.984	.235	.965	Α	5745990-4	5747832-4	5747832-6	
1	9	30.81	24.99	5.97	24.51	В	5745990-3	5747832-3	_	
2	15	1.541 39.14	1.312 33.33	.235 5.97	.965 24.51	Α	_	5747833-4	5747833-6	
3	25	2.088 53.04	1.852 47.04	.230 5.84	.970 24.64	Α	5745994-4	5747834-4	5747834-6	
4	37	2.729 69.32	2.500 63.50	.230 5.84	.972 24.69	Α	_	5747835-4	5747835-6	

nickel underplated

- Notes: 1. All plug connectors are preloaded with size 20 DF posted pin contacts.
 - 2. Recommended pc board thickness is .062 [1.58] for connectors with boardlocks and .093 [2.36] max. for all others.
 - 3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.



HD-20 Front Metal-Shell Right-Angle Posted Connectors 590 Mount (Continued)

Post Size—.026 [0.66] Dia.

Receptacle



With Grounding Straps



Del

With Fixed Female Screwlock

Material and Finish:

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

Eyelets—Brass, tin plated

Threaded Inserts—Zinc

Female Screwlock—Zinc

Boardlocks—Copper alloy, tin plated

Socket Contacts (Posted)— Phosphor bronze, duplex plated as

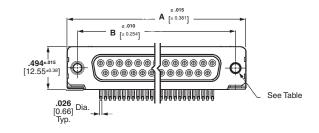
follows: **A**—.000030 [0.00076] gold on mating

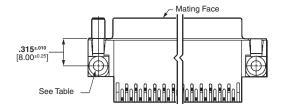
end, tin on termination end, with entire contact nickel underplated

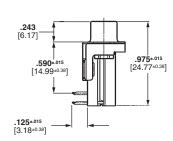
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 **Application Specification**— 114-40010







					Receptacle Part Numbers				
Shell	No. of	Dimensions		Contact Finish	Without I	Without Boardlocks		pardlocks	
Size	Contact Positions	Α	В	(Plating Code)	With Threaded Inserts	With Fixed Female Screwlocks	With Threaded Inserts	With Fixed Female Screwlocks	
1	9	1.213 30.81	.984 24.99	Α	5745988-4	5745988-6	5747836-4	5747836-6	
2	15	1.541 39.14	1.312 33.33	Α	5745984-4	_	5747837-4	_	
0	0.5	2.088	1.852	Α	_	5745992-6	5747838-4	5747838-6	
3	3 25		47.04	В	5745992-3	_	5747838-3	_	
4	37	2.729 69.32	2.500 63.50	Α	5745996-4	_	5747839-4	_	

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

- 2. Recommended pc board thickness is .062 [1.58] for connectors with boardlocks and .093 [2.36] max. for all others.
- 3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.



HD-20 All-Plastic Right-Angle Posted Connectors 318 Mount

Receptacle—With Boardlocks



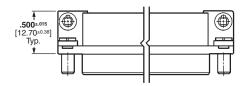
With Threaded Insert

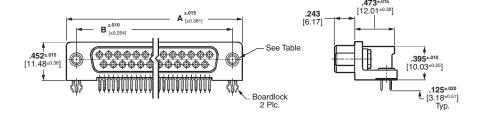


With Threaded Insert



With Fixed Female Screwlock





Material and Finish:

Housing—94V-0 rated thermoplastic, black

Eyelets-Brass, tin plated

Threaded Inserts—Zinc

Female Screwlock—Zinc

Boardlock—Copper alloy, tin plated

Socket Contacts (Posted)-

Phosphor bronze, duplex plated as follows:

A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-1226 Application Specification-114-40027

See customer drawings for printed circuit board layouts.

	Mating Face
.375±.015 [9.52*0.381] — Typ.	Alalalalalala Position 1

	No. of				Part Numbers	
Shell Size	Contact Positions	Dimer	nsions B	Finish (Plating Code)	With Threaded Inserts	With Fixed Female Screwlocks
1	9	1.222 31.04	.984 24.99	А	_	5748979-1
3	25	2.090 53.09	1.852 47.04	Α	5748901-1	5748981-1

Consult Tyco Electronics for availability.

Notes: 1. All receptacle connectors are preloaded with size 20 DF posted socket contacts.2. Recommended pc board thickness is .062 [1.58].

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

HD-20 All-Plastic Right-Angle Posted Connectors 318 Mount (Continued)

Plug





With Threaded Insert

Material and Finish:

Housing—94V-0 rated thermoplastic, black

Eyelets—Brass, tin plated **Threaded Inserts**—Zinc

Boardlock—Copper alloy, tin plated

Pin Contacts (Posted)—Copper alloy, duplex plated as follows:

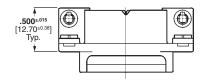
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire

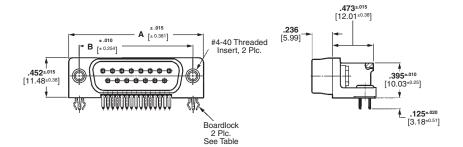
contact nickel underplated **B**—.000010 [0.00025] min. gold on mating end, tin on termination end, with entire contact nickel underplated

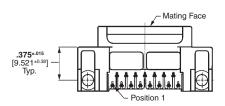
Technical Documents:

Product Specification—108-1226 Application Specification— 114-40027

See customer drawings for printed circuit board layouts.







Shell	No. of Contact	Dimen	sions	Contact Finish	Part Numbers With Threaded Inserts	
Size	Positions	Α	В	(Plating Code)	With Boardlocks	Without Boardlocks
2	15	1.550 39.37	1.312 33.32	Α	5748904-1	_
3	25	2.090 53.09	1.852 47.04	В	_	5748865-3

Consult Tyco Electronics for availability.

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

2. Recommended pc board thickness is .062 [1.58].

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



HD-20 All-Plastic Right-Angle Posted Connectors 318 Mount (Continued)

Post Size—.026 [0.66] Dia.

Receptacle—Without Boardlocks



With Standard Mounting Holes



With Threaded Insert



With Fixed Female Screwlock

Material and Finish:

Housing—94V-0 rated thermoplastic, black

Threaded Inserts—Zinc, chromate coated

Female Screwlocks—Zinc, chromate

Socket Contacts (Posted)-

Phosphor bronze, duplex plated as fol-

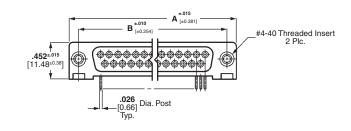
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

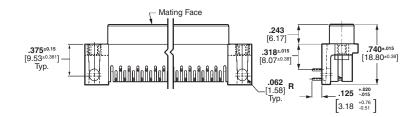
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 Application Specification— 114-40015

See customer drawings for printed circuit board layouts.





				Contact		Part Numbers			
Shell Size	No. of Contact Positions	A Dimer	B (Plating Code)		With Threaded Inserts	With Fixed Female Screwlocks	With .125 [3.18] Mounting Holes		
4	1 9 1.213	1.213	.984	Α	5745394-2	5745395-2	_		
	9	30.81	24.99	В	_	_	5745131-1		
2	15	1.541	1.312	Α	_	5745396-2	5745396-2		
2	15	39.14	33.32	В	_	_	_		
3 25	2.088	1.852	Α	5745392-2	5745397-2	5745132-2			
	25	53.04	47.04	В	_	_	_		

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

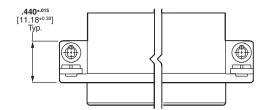
2. Recommended pc board thickness is .093 [2.36].

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

HD-20 All-Plastic Right-Angle Posted Connectors 590 Mount

Receptacle—With Boardlocks



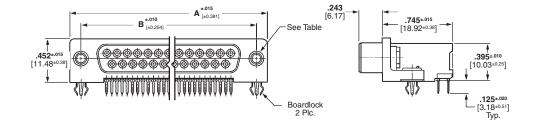




With Threaded Insert



With Fixed Female Screwlock



Material and Finish:

Housing—94V-0 rated thermoplastic,

Evelets—Brass, tin plated

Threaded Inserts—Zinc

Female Screwlock—Zinc

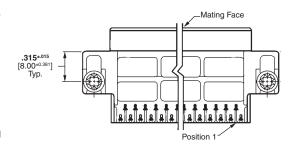
Boardlock—Copper alloy, tin plated

Socket Contacts (Posted)-

Phosphor bronze, duplex plated as follows:

A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated



Technical Documents:

Product Specification—108-1226 Application Specification— 114-40027

See customer drawings for printed circuit board layouts.

	No. of		_	Contact	Part N	Part Numbers	
Shell Size	Contact Positions	A Dimen	B	Finish (Plating Code)	With Threaded Inserts	With Fixed Female Screwlocks	
1	9	1.213 30.81	.984 24.99	В	5748907-2	_	
3	25	2.088 53.04	1.852 47.04	Α	5748909-1	5748989-1	

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

2. Recommended pc board thickness is .062 [1.58].

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



HD-20 All-Plastic Right-Angle Posted Connectors 590 Mount (Continued)

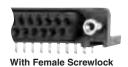
Post Size—.026 [0.66] Dia.

Receptacle—Without Boardlocks





With Threaded Insert



Material and Finish:

Housing—94V-0 rated thermoplastic, black

Threaded Inserts—Zinc, chromate coated

Female Screwlocks—Zinc, chromate coated

Socket Contacts (Posted)—Phosphor bronze, duplex plated as follows:

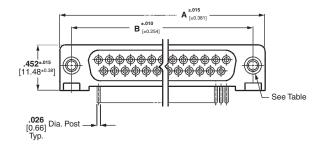
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

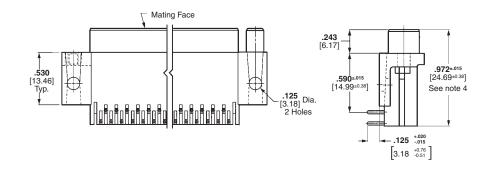
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 **Application Specification**— 114-40015

See customer drawings for printed circuit board layouts.





				Contact		Part Numbers	
Shell Size	No. of Contact Positions	A Dimer	Dimensions A B		With Threaded Inserts	With Fixed Female Screwlocks	With .125 [3.18] Mounting Holes
		1.213	.984	Α	5747459-4	5747459-6	5747459-2
1		30.81	24.99	В	5747459-3	5747459-5	5747459-1
2	0 45	1.541	1.312	Α	5747460-4	5748948-1	5747460-2
2	15	39.14	33.32	В	5747460-3	5747460-5	5747460-1
	0.5	2.088	1.852	Α	5747461-4	5747461-6	5747461-2
3	25	53.04	47.04	В	5747461-3	5747461-5	5747461-1
4	37	2.729 69.32	2.500 63.50	Α	5747462-4	5747462-6	5747462-2
	50	2.635	2.406	Α	_	_	5206973-1
5	50		61.11	В	_	_	5206973-2

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

2. Recommended pc board thickness is .093 [2.36] max.

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

4. Dimension is 1.120 [28.45] for size 5 d-subs.

HD-20 All-Plastic Right-Angle Posted Connectors 590 Mount (Continued)

Post Size—.026 [0.66] Dia.

Plug-Without Boardlocks





.....

With Female Screwlocks

Material and Finish:

Housing—94V-0 rated thermoplastic, black

Threaded Inserts—Zinc, chromate coated

Female Screwlocks—Zinc, chromate coated

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

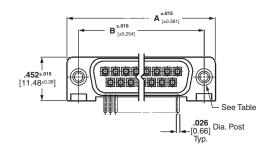
A—.000030 [0.00076] gold on mating end, tin on termination end, with entire contact nickel underplated

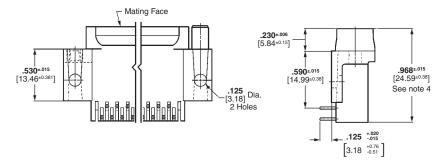
B—Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Technical Documents:

Product Specification—108-40025 **Application Specification**— 114-40015

See customer drawings for printed circuit board layouts.





				Contact		Part Numbers	
Shell Size	No. of Contact Positions	Dimer A	Dimensions Fini		With Threaded Inserts	With Fixed Female Screwlocks	With .125 [3.18] Mounting Holes
4	0	1.213	.984	Α	5747467-4	_	5747467-2
ı	9	30.81	24.99	В	_	_	5747467-1
2	15	1.541 39.14	1.312 33.32	А	5748872-1	5748952-1	5747468-2
	05	2.090	1.852	Α	5748873-1	5748953-1	5748826-1
3	25	53.09	47.04	В	_	_	5748826-2
4	37	2.729 69.32	2.500 63.50	А	_	_	5747470-2
	FO	2.635	2.406	Α	_	_	5206971-1
5	5 50	66.93	66.93 61.11	В	_	_	5206971-2
		00.93	66.93 61.11				5206971-2

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

- 2. Recommended pc board thickness is .093 [2.36] max.
- 3. Male screw retainers are used as mating hardware for connectors with 4-40 female screwlocks.
- 4. Dimension is 1.115 [28.32] for size 5 d-subs, GPL244.



Right-Angle Mounting Connectors — European Standard Footprint



See customer drawings for latest dimensional details

Material and Finish:

Front Shell—Steel, tin plated
Housing—Black glass-filled polyester
Flammability—UL 94V-0
Contact Material—

Pin—Phosphor bronze **Socket**—Phosphor bronze

Contact Area Plating—0.76µm Gold Current Rating—6A max. Insulation Resistance—

5000 $\mbox{M}\Omega$ min. **Dielectric Strength**—1000V AC min.

Temperature Rating— -55°C to +105°C

Plug with Boardlocks — Solder Termination

No of Contact Positions	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	338168-2	1-338168-2	3-338168-2	2-338168-2	4-338168-2
15	338169-2	1-338169-2	3-338169-2	2-338169-2	4-338169-2
25	338170-2	1-338170-2	3-338170-2	2-338170-2	4-338170-2
37	338171-2	1-338171-2	3-338171-2	2-338171-2	4-338171-2

Socket with Boardlocks — Solder Termination

No of Contact Positions	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	106505-2	1-106505-2	3-106505-2	2-106505-2	4-106505-2
15	106506-2	1-106506-2	3-106506-2	2-106506-2	4-106506-2
25	106507-2	1-106507-2	3-106507-2	2-106507-2	4-106507-2
37	106508-2	1-106508-2	3-106508-2	2-106508-2	4-106508-2

Plug without Boardlocks — Solder Termination

No of Contact Positions	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	5-338168-2	6-338168-2	8-338168-2	7-338168-2	9-338168-2
15	5-338169-2	6-338169-2	8-338169-2	7-338169-2	9-338169-2
25	5-338170-2	6-338170-2	8-338170-2	7-338170-2	9-338170-2
37	5-338171-2	6-338171-2	8-338171-2	7-338171-2	9-338171-2

Socket without Boardlocks — Solder Termination

No of Contact Positions	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	5-106505-2	6-106505-2	8-106505-2	7-106505-2	9-106505-2
15	5-106506-2	6-106506-2	8-106506-2	7-106506-2	9-106506-2
25	5-106507-2	6-106507-2	8-106507-2	7-106507-2	9-106507-2
37	5-106508-2	6-106508-2	8-106508-2	7-106508-2	9-106508-2

Right-Angle Mounting Connectors — Eurostyle Footprint



See customer drawings for latest dimensional details

Material and Finish:

Front Shell—Steel, tin plated
Housing—Grey thermoplastic PBTP
Flammability—UL 94V-0
Contact Material—

Pin—Copper alloy
Socket—Copper alloy

Contact Area Plating—Nickel/Gold (>250 mating cycles)

Current Rating—2.2A Insulation Resistance— $5000~\text{M}\Omega$ min.

Dielectric Strength—1000V AC **Temperature Rating**— -55°C to +125°C

Plug with Boardlocks — Solder Termination

No of Contact Positions	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	5-1393480-9	8-1393480-5	1393481-5	7-1393480-4	9-1393480-4
15	6-1393480-0	8-1393480-6	3-1392010-3	7-1393480-5	9-1393480-5
25	On Enquiry	8-1393480-7	1393481-6	7-1393480-6	9-1393480-6
37	On Enquiry	8-1393480-8	3-1392010-4	7-1393480-7	On Enquiry

Socket with Boardlocks — Solder Termination

No of Contact Positions	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	5-1393480-5	8-1393480-1	9-1393480-9	6-1393480-7	9-1393480-0
15	5-1393480-6	8-1393480-2	1393481-1	6-1393480-8	9-1393480-1
25	5-1393480-7	8-1393480-3	1393481-2	6-1393480-9	9-1393480-2
37	On Enquiry	8-1393480-4	3-1392010-7	7-1393480-0	On Enquiry

Plug without Boardlocks — Solder Termination

No of Contact Positions	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	2-1393480-1	4-1393480-0	5-1393480-2	3-1393480-2	On Enquiry
15	2-1393480-2	4-1393480-1	5-1393480-3	3-1393480-3	On Enquiry
25	2-1393480-3	4-1393480-2	5-1393480-4	2-1392010-8	On Enquiry
37	2-1393480-4	4-1393480-3	3-1392010-5	3-1392010-6	On Enquiry

Socket without Boardlocks — Solder Termination

No of Contact Positions	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	1-1393480-7	3-1393480-6	4-1393480-7	2-1393480-8	On Enquiry
15	1-1393480-8	3-1393480-7	4-1393480-8	2-1393480-9	On Enquiry
25	1-1393480-9	3-1393480-8	4-1393480-9	3-1393480-0	On Enquiry
37	2-1393480-0	3-1393480-9	5-1393480-0	3-1392010-8	On Enquiry



Press Fit Termination, Right-Angle Mounting — European Standard Footprint



Material and Finish:

Front Shell—Steel, tin plated **Housing**—Black thermoplastic PBTP/PPS

Flammability—UL 94V-0

Contact Material-

Pin—Copper alloy

Socket—Copper alloy

Contact Area Plating—Nickel/Gold (>250 mating cycles)

Current Rating—2.2A

Insulation Resistance—

 $5000~\text{M}\Omega$ min.

Dielectric Strength—1000V AC

Temperature Rating-

-55°C to +125°C

Plug with Boardlocks — Press Fit Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	_	3-1393481-2	3-1393481-8	2-1393481-5	On Enquiry
15	_	3-1393481-3	3-1393481-9	2-1393481-6	On Enquiry
25	_	3-1393481-4	2-1393497-7	2-1393481-7	On Enquiry
37	_	2-1392010-7	4-1393481-0	2-1393481-8	On Enquiry

Socket with Boardlocks — Press Fit Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	_	2-1393481-9	3-1393481-6	2-1393481-1	On Enquiry
15	_	3-1393481-0	2-1393497-4	2-1393481-2	On Enquiry
25	_	3-1393481-1	2-1393497-5	2-1393481-3	On Enquiry
37	_	2-1392010-6	2-1393497-6	2-1393481-4	On Enquiry

Press Fit Termination, Right-Angle Mounting — Eurostyle Footprint



Material and Finish:

Front Shell—Steel, tin plated **Housing**—Black thermoplastic PBTP/PPS

Flammability—UL 94V-0

Contact Material-

Pin—Copper alloy

Socket—Copper alloy

Contact Area Plating—Nickel/Gold (>250 mating cycles)

Current Rating—2.2A

Insulation Resistance—

5000 $\text{M}\Omega$ min.

Dielectric Strength—1000V AC

Temperature Rating—

−55°C to +125°C

Plug with Boardlocks — Press Fit Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	_	On Enquiry	3-1393482-0	1-1393482-4	2-1393482-1
15	_	On Enquiry	3-1393482-2	3-1393497-0	4-1483489-2
25	_	On Enquiry	3-1393482-4	1-1393482-5	On Enquiry
37	_	On Enquiry	3-1393482-5	3-1393497-1	On Enquiry

Socket with Boardlocks — Press Fit Termination

No of Ways	3mm Hole	4-40 Inserts	4-40 Screwlocks	M3 Inserts	M3 Screwlocks
9	_	1-1393482-6	2-1393482-2	1-1393482-2	2-1393482-0
15	_	1-1393482-8	2-1393482-4	1-1393482-3	On Enquiry
25	_	3-1392010-9	2-1393482-6	9-1393487-2	On Enquiry
37	_	4-1392010-0	2-1393482-8	2-1393497-9	On Enquiry