

# .8mm Free Height (FH) Connector System

***Now offering 30u" Gold Plating Options  
and Right Angle Plugs***

## DESCRIPTION

The popular .8mm FH connector system is now available with 30u" Gold Plating. In addition, a right angle plug in 60 and 80 positions is also available. The right angle plug product is a thru-hole, while the balance of the product line remains surface mount.

## APPLICATION

The 30u" Gold product is intended for stacking applications in high end Computer, Telecommunications, Industrial, and Mil/Aero applications. The right angle plug is ideal for test cards and card extenders, and mates to standard vertical receptacles.



## KEY FEATURES

- Available Position Sizes: 40 thru 200 positions in increments of 20 positions
- Stack Height Options: 5mm thru 16mm in increments of 1mm
- Tube, Tube with Pickup Cap, and Tape and Reel Packaging Options
- Polarized locating posts
- 8u" Gold, and 30u" Gold plating options
- RoHS Compliant numbers available now
- Optional Solder Peg (holddown)
- Right Angle Plugs in 60 and 80 positions

# .8mm Free Height (FH) Connector System

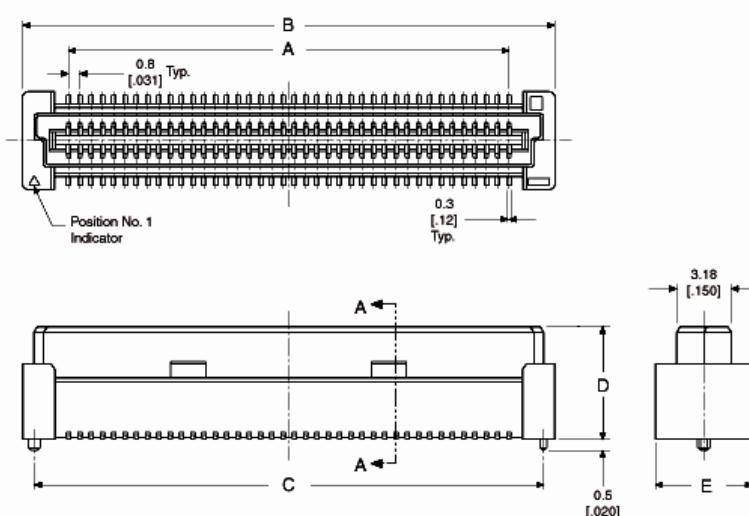
Page 2

## RECEPTACLE PART NUMBERS

Height	Plating Au Thickness	Package Type	Pickup Cap	40pos	60pos	80pos	100pos	120pos	140pos	160pos	180pos	200pos
5H	8u"	Tube	no	177983-1	177983-2	177983-3	177983-4	177983-5	177983-6	177983-8	177983-9	1-177983-0
		Tube	yes	179229-1	179229-2	179229-3	179229-4	179229-5	179229-6	179229-8	179229-9	1-179229-0
		Tape and Reel	yes	177985-1	177985-2	177985-3	177985-4	177985-5	177985-6	177985-8		
	30u"	Tube	no	1123000-1	1123000-2	1123000-3	1123000-4	1123000-5	1123000-6	1123000-8	1123000-9	1-1123000-0
		Tube	yes									
		Tape and Reel	yes	353999-1	353999-2	353999-3	353999-4	353999-5	353999-6	353999-8		
9H	8u"	Tube	no	5-179009-1	5-179009-2	5-179009-3	5-179009-4	5-179009-5	5-179009-6	5-179009-8	5-179009-9	6-179009-0
		Tube	yes		5-179232-2	5-179232-3	5-179232-4	5-179232-5	5-179232-6	5-179232-8	5-179232-9	6-179232-0
		Tape and Reel	yes	5-179180-1	5-179180-2	5-179180-3	5-179180-4	5-179180-5	5-179180-6			
	30u"	Tube	no	84613-1	84613-2	84613-3	84613-4	84613-5	84613-6	84613-8	84613-9	1-84613-0
		Tube	yes									
		Tape and Reel	yes	7-179180-1	7-179180-2	7-179180-3	7-179180-4	7-179180-5	7-179180-6			
13H	8u"	Tube	no	5-179010-1	5-179010-2	5-179010-3	5-179010-4	5-179010-5	5-179010-6	5-179010-8	5-179010-9	6-179010-0
		Tube	yes	5-179233-1	5-179233-2	5-179233-3	5-179233-4	5-179233-5	5-179233-6	5-179233-8	5-179233-9	6-179233-0
		Tape and Reel	yes	84616-1	84616-2	84616-3	84616-4	84616-5	84616-6	84616-8	84616-9	
	30u"	Tube	no	5-1123212-1	5-1123212-2	5-1123212-3	5-1123212-4	5-1123212-5	5-1123212-6	5-1123212-8	5-1123212-9	6-1123212-0
		Tube	yes									7-1123212-0
		Tape and Reel	yes	84618-1	84618-2	84618-3	84618-4	84618-5	84618-6	84618-8	84618-9	

Stack Height = ((Rcpt Height + Plug Height) - 5)

example: ((13H Rcpt + 6H Plug) - 5) = ((13 + 6) - 5) = 14mm stack height



No. of Positions	Dimensions			Height	5H	9H	13H
	A	B	C				
40	15.20 .598	21.80 .858	20.20 .795				
60	23.20 .913	29.80 1.173	26.20 1.110				
80	31.20 1.228	37.80 1.488	36.20 1.425				
100	39.20 1.543	45.80 1.803	44.20 1.740				
120	47.20 1.858	53.80 2.118	52.20 2.056				
140	55.20 2.173	61.80 2.433	60.20 2.370				
160	63.20 2.488	69.80 2.748	68.20 2.685				
180	71.20 2.803	77.80 3.063	76.20 3.000				
200	79.20 3.118	85.80 3.378	84.20 3.315				

# .8mm Free Height (FH) Connector System

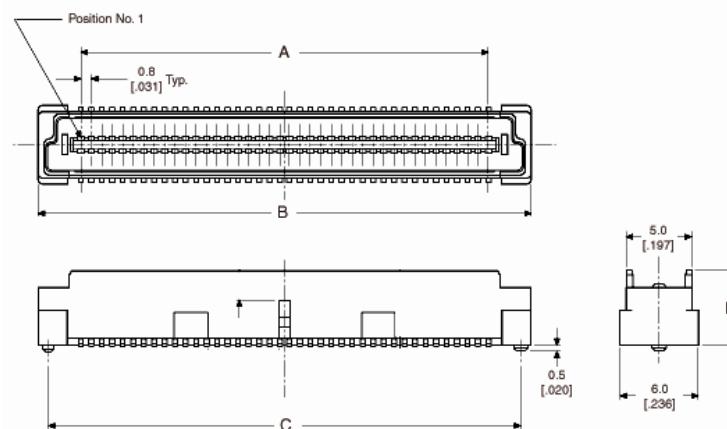
Page 3

## PLUG PART NUMBERS

Height	Plating Au Thickness	Package Type	Pickup Cap	40pos	60pos	80pos	100pos	120pos	140pos	160pos	180pos	200pos
5H	8u"	Tube	no	177984-1	177984-2	177984-3	177984-4	177984-5	177984-6	177984-8	177984-9	1-177984-0
		Tube	yes	179230-1	179230-2	179230-3	179230-4	179230-5	179230-6	179230-8	179230-9	1-179230-0
		Tape and Reel	yes	177986-1	177986-2	177986-3	177986-4	177986-5	177986-6	177986-8		
	30u"	Tube	no	84614-1	84614-2	84614-3	84614-4	84614-5	84614-6	84614-8	84614-9	1-84614-0
		Tube	yes									
		Tape and Reel	yes	5-177986-1	5-177986-2	5-177986-3	5-177986-4	5-177986-5	5-177986-6	5-177986-8		
6H	8u"	Tube	no	179029-1	179029-2	179029-3	179029-4	179029-5	179029-6	179029-8	179029-9	1-179029-0
		Tube	yes	2-179230-1	2-179230-2	2-179230-3	2-179230-4	2-179230-5	2-179230-6	2-179230-8	2-179230-9	3-179230-0
		Tape and Reel	yes	1-177986-1	1-177986-2	1-177986-3	1-177986-4	1-177986-5	1-177986-6			
	30u"	Tube	no	84615-1	84615-2	84615-3	84615-4	84615-5	84615-6	84615-8	84615-9	1-84615-0
		Tube	yes							1-84615-8	1-84615-9	2-84615-0
		Tape and Reel	yes	6-177986-1	6-177986-2	6-177986-3	6-177986-4	6-177986-5	6-177986-6			
7H	8u"	Tube	no	179030-1	179030-2	179030-3	179030-4	179030-5	179030-6	179030-8	179030-9	1-179030-0
		Tube	yes	4-179230-1	4-179230-2	4-179230-3	4-179230-4	4-179230-5	4-179230-6	4-179230-8	4-179230-9	5-179230-0
		Tape and Reel	yes	2-177986-1	2-177986-2	2-177986-3	2-177986-4	2-177986-5	2-177986-6			
	30u"	Tube	no	1-179030-1	1-179030-2	1-179030-3	1-179030-4	1-179030-5	1-179030-6	1-179030-8	1-179030-9	2-179030-0
		Tube	yes	2-179030-1	2-179030-2	2-179030-3	2-179030-4	2-179030-5	2-179030-6	2-179030-8	2-179030-9	3-179030-0
		Tape and Reel	yes									
8H	8u"	Tube	no	179031-1	179031-2	179031-3	179031-4	179031-5	179031-6	179031-8	179031-9	1-179031-0
		Tube	yes	6-179230-1	6-179230-2	6-179230-3	6-179230-4	6-179230-5	6-179230-6	6-179230-8	6-179230-9	7-179230-0
		Tape and Reel	yes	3-177986-1	3-177986-2	3-177986-3	3-177986-4	3-177986-5	3-177986-6	3-177986-8	3-177986-9	
	30u"	Tube	no	1123002-1	1123002-2	1123002-3	1123002-4	1123002-5	1123002-6	1123002-8	1123002-9	1-1123002-0
		Tube	yes									
		Tape and Reel	yes	1123001-1	1123001-2	1123001-3	1123001-4	1123001-5	1123001-6	1123001-8	1123001-9	
R/A	8u"	Tube	no		316229-3	316229-2						

Stack Height = (Recept Height + Plug Height) - 5

example: ((13H Recept + 6H Plug) - 5) = ((13 + 6) - 5) = 14mm stack height

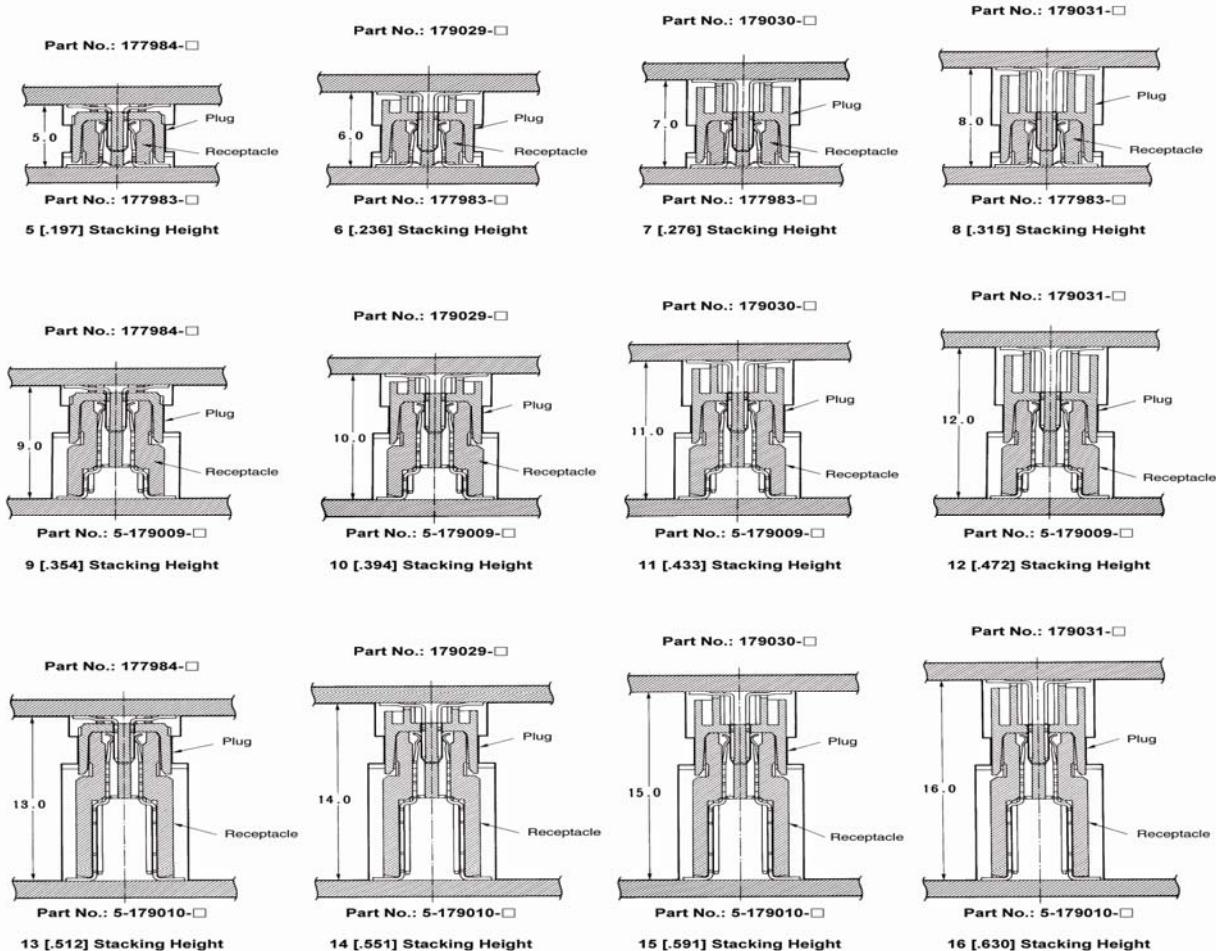


No. of Positions	Dimensions			Height	5H	6H	7H	8H
	A	B	C					
40	15.20 .598	21.80 .858	20.20 .795					
60	23.20 .913	29.80 1.173	28.20 1.110					
80	31.20 1.228	37.80 1.488	36.20 1.425					
100	39.20 1.543	45.80 1.803	44.20 1.740					
120	47.20 1.858	53.80 2.118	52.20 2.055					
140	55.20 2.173	61.80 2.433	60.20 2.370					
160	63.20 2.488	69.80 2.748	68.20 2.685					
180	71.20 2.803	77.80 3.063	76.20 3.000					
200	79.20 3.118	85.80 3.378	84.20 3.315					

# .8mm Free Height (FH) Connector System

Page 4

## BOARD-TO-BOARD STACKING HEIGHTS (By Plug/Receptacle Combinations)



**Note:** See charts for specific dash nos. of sizes 40 to 200 positions (in 20-position increments).

## FOR MORE INFORMATION

Product Specification: 108-5390

Technical Support

Internet: <http://www.tycoelectronics.com>

USA: 1-800-522-6752

John Larkin, Product Manager

Phone: 1-717-592-2074

E-mail: [jtarkin@tycoelectronics.com](mailto:jtarkin@tycoelectronics.com)

### Disclaimer

White Tyco Electronics Corporation and its affiliates referenced herein ("Tyco Electronics") have made every reasonable effort to ensure the accuracy of the information in this catalog. Tyco Electronics does not guarantee that it is error free, nor does Tyco Electronics make any other representation, warranty or guarantee that the information is accurate, correct reliable or current.

Tyco Electronics reserves the right to make any adjustments to the information contained herein at any time without notice. Tyco Electronics expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. Tyco Electronics' only obligations are those in the Tyco Electronics Standard Terms and Conditions of Sale, and in no case will Tyco Electronics be responsible for any incidental, indirect, or consequential damages arising from the sale, resale, or misuse of its products. Users should independently evaluate the suitability of, and test each product for, their application.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[5-179009-2](#)