

Quick Reference Guide

0.8mm Free Height Connector

The popular 0.8mm FH connector system saves more than 50% board space compared to conventional 1.27mm centerline connectors. Its product portfolio includes board stacking heights ranging from 5mm through 20mm in increments of 1mm. It is also available in multiple sizes ranging from 40 to 200 positions. In addition, right angle plugs are available which mate to standard receptacles.

FEATURES

- Packaging options include tube, tube with pickup cap, or tape and reel with pickup cap
- Polarized housings for proper mating orientation
- Locating posts for proper positioning
- 8u" and 30u" Gold plating options
- Right angle plugs in 60 and 80 positions

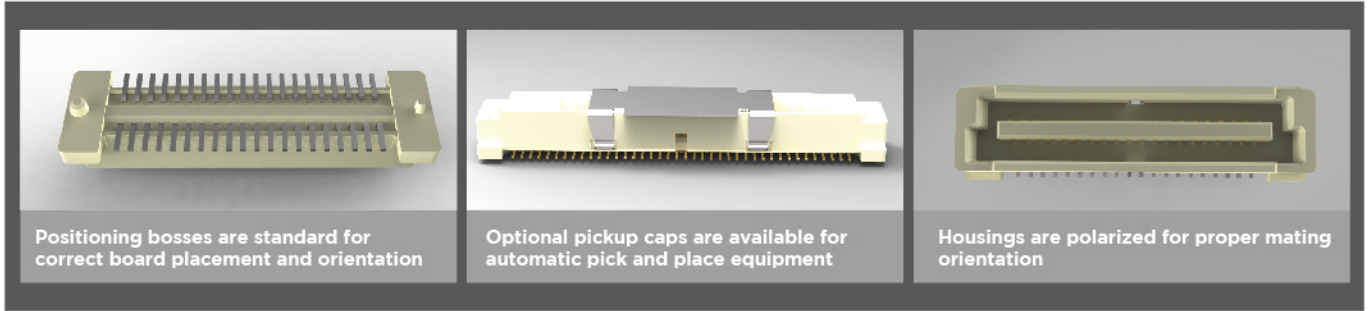
BENEFITS

- Strong signal integrity support
- Broad stacking portfolio
- Reputation for excellent quality and customer support

APPLICATIONS

- Parallel board stacking applications in high-end computer, telecommunications, industrial, and military/aero industries
- Test cards and card extenders
- Communications equipment
- Electronic equipment requiring miniature connector packaging

0.8mm FH Features



<p>Stack Height Combinations</p>	<p>5H plug</p>	<p>6H plug</p>	<p>7H plug</p>	<p>8H plug</p>
<p>5H receptacle</p>	<p>5mm</p>	<p>6mm</p>	<p>7mm</p>	<p>8mm</p>
<p>9H receptacle</p>	<p>9mm</p>	<p>10mm</p>	<p>11mm</p>	<p>12mm</p>
<p>13H receptacle</p>	<p>13mm</p>	<p>14mm</p>	<p>15mm</p>	<p>16mm</p>
<p>17H receptacle</p>	<p>17mm</p>	<p>18mm</p>	<p>19mm</p>	<p>20mm</p>

For specific part numbers of sizes 40-200 positions, in 20 position increments, see part selection chart.

Product Selection Chart

Gender	Height	Plating Au thickness	Package type	Pickup cap	40 Pos.	60 Pos.	80 Pos.	100 Pos.	120 Pos.	140 Pos.	160 Pos.	180 Pos.	200 Pos.
Receptacle	3H	8u"	Tube	No	5177983-1	5177983-2	5177983-3	5177983-4	5177983-5	5177983-6	5177983-8	5177983-9	1-5177983-0
			Tube	Yes	5179229-1	5179229-2	5179229-3	5179229-4	5179229-5	5179229-6	5179229-8	5179229-9	1-5179229-0
			Tape and Reel	Yes	5177985-1	5177985-2	5177985-3	5177985-4	5177985-5	5177985-6	5177985-8	5177985-9	1-5177985-0
		30u"	Tube	No	6123000-1	6123000-2	6123000-3	6123000-4	6123000-5	6123000-6	6123000-8	6123000-9	1-6123000-0
			Tube	Yes	5353999-1	5353999-2	5353999-3	5353999-4	5353999-5	5353999-6	5353999-8	5353999-9	1-5353999-0
			Tape and Reel	Yes	5353999-1	5353999-2	5353999-3	5353999-4	5353999-5	5353999-6	5353999-8	5353999-9	1-5353999-0
	9H	8u"	Tube	No	5-5179009-1	5-5179009-2	5-5179009-3	5-5179009-4	5-5179009-5	5-5179009-6	5-5179009-8	5-5179009-9	6-5179009-0
			Tube	Yes	-	5-5179232-2	5-5179232-3	5-5179232-4	5-5179232-5	5-5179232-6	5-5179232-8	5-5179232-9	6-5179232-0
			Tape and Reel	Yes	5-5179180-1	5-5179180-2	5-5179180-3	5-5179180-4	5-5179180-5	5-5179180-6	-	-	-
		30u"	Tube	No	5084613-1	5084613-2	5084613-3	5084613-4	5084613-5	5084613-6	5084613-8	5084613-9	1-5084613-0
			Tube	Yes	7-5179180-1	7-5179180-2	7-5179180-3	7-5179180-4	7-5179180-5	7-5179180-6	-	-	-
			Tape and Reel	Yes	7-5179180-1	7-5179180-2	7-5179180-3	7-5179180-4	7-5179180-5	7-5179180-6	-	-	-
13H	8u"	Tube	No	5-5179010-1	5-5179010-2	5-5179010-3	5-5179010-4	5-5179010-5	5-5179010-6	5-5179010-8	5-5179010-9	6-5179010-0	
		Tube	Yes	5-5179233-1	5-5179233-2	5-5179233-3	5-5179233-4	5-5179233-5	5-5179233-6	5-5179233-8	5-5179233-9	6-5179233-0	
		Tape and Reel	Yes	5084616-1	5084616-2	5084616-3	5084616-4	5084616-5	5084616-6	5084616-8	5084616-9	1-5084616-0	
	30u"	Tube	No	5-6123212-1	5-6123212-2	5-6123212-3	5-6123212-4	5-6123212-5	5-6123212-6	5-6123212-8	5-6123212-9	6-6123212-0	
		Tube	Yes	5084618-1	5084618-2	5084618-3	5084618-4	5084618-5	5084618-6	5084618-8	5084618-9	-	
		Tape and Reel	Yes	5084618-1	5084618-2	5084618-3	5084618-4	5084618-5	5084618-6	5084618-8	5084618-9	-	
17H	8u"	Tube	No	5-1735480-1	5-1735480-2	5-1735480-3	5-1735480-4	5-1735480-5	5-1735480-6	5-1735480-8	5-1735480-9	6-1735480-0	
		Tube	Yes	1735481-1	1735481-2	1735481-3	1735481-4	1735481-5	1735481-6	1735481-8	1735481-9	1-1735481-0	
		Tape and Reel	Yes	1735482-1	1735482-2	1735482-3	1735482-4	1735482-5	1735482-6	1735482-8	1735482-9	1-1735482-0	
	30u"	Tube	No	7-1735480-1	7-1735480-2	7-1735480-3	7-1735480-4	7-1735480-5	7-1735480-6	7-1735480-8	7-1735480-9	8-1735480-0	
		Tube	Yes	2-1735481-1	2-1735481-2	2-1735481-3	2-1735481-4	2-1735481-5	2-1735481-6	2-1735481-8	2-1735481-9	3-1735481-0	
		Tape and Reel	Yes	2-1735482-1	2-1735482-2	2-1735482-3	2-1735482-4	2-1735482-5	2-1735482-6	2-1735482-8	2-1735482-9	3-1735482-0	
Plug	5H	8u"	Tube	No	5177984-1	5177984-2	5177984-3	5177984-4	5177984-5	5177984-6	5177984-8	5177984-9	1-5177984-0
			Tube	Yes	5179230-1	5179230-2	5179230-3	5179230-4	5179230-5	5179230-6	5179230-8	5179230-9	1-5179230-0
			Tape and Reel	Yes	5177986-1	5177986-2	5177986-3	5177986-4	5177986-5	5177986-6	5177986-8	-	-
		30u"	Tube	No	5084614-1	5084614-2	5084614-3	5084614-4	5084614-5	5084614-6	5084614-8	5084614-9	1-5084614-0
			Tube	Yes	5-5177986-1	5-5177986-2	5-5177986-3	5-5177986-4	5-5177986-5	5-5177986-6	5-5177986-8	-	-
			Tape and Reel	Yes	5-5177986-1	5-5177986-2	5-5177986-3	5-5177986-4	5-5177986-5	5-5177986-6	5-5177986-8	-	-
	6H	8u"	Tube	No	5179029-1	5179029-2	5179029-3	5179029-4	5179029-5	5179029-6	5179029-8	5179029-9	1-5179029-0
			Tube	Yes	2-5179230-1	2-5179230-2	2-5179230-3	2-5179230-4	2-5179230-5	2-5179230-6	2-5179230-8	2-5179230-9	3-5179230-0
			Tape and Reel	Yes	1-5177986-1	1-5177986-2	1-5177986-3	1-5177986-4	1-5177986-5	1-5177986-6	-	-	-
		30u"	Tube	No	5084615-1	5084615-2	5084615-3	5084615-4	5084615-5	5084615-6	5084615-8	5084615-9	1-5084615-0
			Tube	Yes	6-5177986-1	6-5177986-2	6-5177986-3	6-5177986-4	6-5177986-5	6-5177986-6	6-5177986-8	-	-
			Tape and Reel	Yes	6-5177986-1	6-5177986-2	6-5177986-3	6-5177986-4	6-5177986-5	6-5177986-6	6-5177986-8	-	-
	7H	8u"	Tube	No	5179030-1	5179030-2	5179030-3	5179030-4	5179030-5	5179030-6	5179030-8	5179030-9	1-5179030-0
			Tube	Yes	4-5179230-1	4-5179230-2	4-5179230-3	4-5179230-4	4-5179230-5	4-5179230-6	4-5179230-8	4-5179230-9	5-5179230-0
			Tape and Reel	Yes	2-5177986-1	2-5177986-2	2-5177986-3	2-5177986-4	2-5177986-5	2-5177986-6	2-5177986-8	2-5177986-9	3-5177986-0
		30u"	Tube	No	1-5179030-1	1-5179030-2	1-5179030-3	1-5179030-4	1-5179030-5	1-5179030-6	1-5179030-8	1-5179030-9	2-5179030-0
			Tube	Yes	2-5179030-1	2-5179030-2	2-5179030-3	2-5179030-4	2-5179030-5	2-5179030-6	2-5179030-8	2-5179030-9	3-5179030-0
			Tape and Reel	Yes	7-5177986-1	7-5177986-2	7-5177986-3	7-5177986-4	7-5177986-5	7-5177986-6	-	-	8-5177986-0
8H	8u"	Tube	No	5179031-1	5179031-2	5179031-3	5179031-4	5179031-5	5179031-6	5179031-8	5179031-9	1-5179031-0	
		Tube	Yes	6-5179230-1	6-5179230-2	6-5179230-3	6-5179230-4	6-5179230-5	6-5179230-6	6-5179230-8	6-5179230-9	7-5179230-0	
		Tape and Reel	Yes	3-5177986-1	3-5177986-2	3-5177986-3	3-5177986-4	3-5177986-5	3-5177986-6	3-5177986-8	3-5177986-9	4-5177986-0	
	30u"	Tube	No	6123002-1	6123002-2	6123002-3	6123002-4	6123002-5	6123002-6	6123002-8	6123002-9	1-6123002-0	
		Tube	Yes	6123001-1	6123001-2	6123001-3	6123001-4	6123001-5	6123001-6	6123001-8	6123001-9	1-6123001-0	
		Tape and Reel	Yes	6123001-1	6123001-2	6123001-3	6123001-4	6123001-5	6123001-6	6123001-8	6123001-9	1-6123001-0	
RA	8u"	Tube	No	-	316229-2	316229-3	-	-	-	-	-	-	

Stack Height = [(Rcpt. Height + Plug Height) - 5]
 example: [(13H Rcpt. + 6H Plug) - 5] = [(13 + 6) - 5] = 14mm stack height
 Note: Part Numbers are RoHS compliant

Frequently asked questions

How is stack height calculated for 0.8mm FH?

Stack Height = [(Receptacle Height + Plug Height) -5]

Do we offer any versions without locating posts?

No. All 0.8mm FH connectors have locating posts.

Are 0.8mm FH connectors UL approved?

Yes. They are recognized under the component program of Underwriters Laboratories Inc., File No. E28476.

Does 0.8mm FH offer any half millimeter stack heights?

No. Stack heights are available from 5 to 20mm in increments of 1mm.

FOR MORE INFORMATION

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*as defined www.te.com/leadfree

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