



(2,00mm) .0787"

FCT, EMT SERIES

# FLEXCARD™ TERMINAL & SOCKET STRIPS

Mates with:  
EMT

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?FCT](http://www.samtec.com?FCT)

**Insulator Material:**  
Black Liquid Crystal Polymer



**Terminal Material:**  
Phosphor Bronze

**Current Rating:**  
3A @ 80°C ambient

**Operating Temp Range:**  
-55°C to +105°C with Tin;  
-55°C to +125°C with Gold

**Plating:**  
Sn or Au over 50µ" (1,27µm) Ni

**RoHS Compliant:**  
Yes

**Processing:**  
Lead-Free Solderable:  
Wave, or reflow with Matte Sn plating

**Note:** Some lengths, styles and options are non-standard, non-returnable.

<b>FCT</b>	<b>1</b>	<b>NO. PINS PER ROW</b>	<b>LEAD STYLE</b>	<b>PLATING OPTION</b>	<b>D</b>	<b>CARD SLOT</b>	<b>TAIL OPTION</b>	<b>SL</b>									
		<b>20, 30 &amp; 40</b> (Call Samtec for other sizes)	<b>Specify LEAD STYLE from chart</b>	<p><b>-F</b> = Gold flash on post, Matte Tin on tail</p> <p><b>-L</b> = 10µ" (0,25µm) Gold on post, Matte Tin on tail</p> <p><b>-S</b> = 30µ" (0,76µm) Gold on post, Matte Tin on tail</p>		<p><b>-01</b> = Accepts (0,80mm) .031" thick card</p>	<p><b>-RA</b> = Right Angle (Leave blank for vertical version. Style -02 only)</p>										
		<p>No. of positions x (2,00) .0787 + (18,19) .716</p> <p>No. of positions x (2,00) .0787 + (13,87) .546</p>		<p>(2,00) .0787</p> <p>(3,20) .126</p> <p>(2,00) .0787</p> <p>(44,45) 1.750</p>		<p>(2,00) .0787</p> <p>(2,29) .090</p> <p>(38,10) 1.500</p> <p>(1,14) .045</p>		<table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>Y</th> <th>CARD-TO-BOARD SPACE (X)</th> </tr> </thead> <tbody> <tr> <td>-02</td> <td>(6,35) .250</td> <td>(2,60) .1025</td> </tr> <tr> <td>-03</td> <td>(9,53) .375</td> <td>(5,78) .2275</td> </tr> </tbody> </table>	LEAD STYLE	Y	CARD-TO-BOARD SPACE (X)	-02	(6,35) .250	(2,60) .1025	-03	(9,53) .375	(5,78) .2275
LEAD STYLE	Y	CARD-TO-BOARD SPACE (X)															
-02	(6,35) .250	(2,60) .1025															
-03	(9,53) .375	(5,78) .2275															
		<p>(88,10) 1.500</p> <p>(3,20) .126</p> <p>(2,00) .0787</p> <p>(44,45) 1.750</p>		<p>(2,00) .0787</p> <p>(2,29) .090</p> <p>(38,10) 1.500</p> <p>(1,14) .045</p>		<p>(2,29) .090</p> <p>(3,81) .150</p> <p>(2,00) .0787</p> <p>(1,52) .060 TYP</p> <p>(2,54) .100 DIA TYP</p>											
		<p>Style -02</p> <p>Style -03</p>		<p>-RA OPTION</p>													

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?EMT](http://www.samtec.com?EMT)

**Insulator Material:**  
Black LCP



**Contact Material:**  
BeCu

**Current Rating:**  
3A @ 80°C ambient

**Operating Temp Range:**  
-55°C to +125°C

**Plating:**  
Sn or Au over 50µ" (1,27µm) Ni

**Contact Resistance:**  
10 mΩ max

**Insertion Depth:**  
(3,05mm) .120" to (3,30mm) .130"

**Insertion Force:**  
-01=1.5oz (0,44N) average  
-51=2.5oz (0,70N) average

**Withdrawal Force:**  
-01=1.1oz (0,31N) average  
-51=1.5oz (0,44N) average

**Lead-Free Solderable:**  
Yes, with Matte Sn plating

**SMT Lead Coplanarity:**  
(0,10mm) .004" max (20)  
(0,15mm) .006" max (30-40)

**RoHS Compliant:**  
Yes

<b>EMT</b>	<b>1</b>	<b>NO. PINS PER ROW</b>	<b>CARD THICKNESS</b>	<b>PLATING OPTION</b>	<b>D</b>
		<b>20, 30, 40</b> (Call Samtec for other sizes)	<p><b>-01</b> = (0,80mm) .031" thick board (Low Insertion Force)</p> <p><b>-51</b> = (0,80mm) .031" thick board (Standard Insertion Force)</p>	<p><b>-L</b> = 10µ" (0,25µm) Gold on contact, Matte on tail</p> <p><b>-S</b> = 30µ" (0,76µm) Gold on contact, Matte Tin on tail</p>	
		<p>No. of positions x (2,00) .0787 + (3,56) .140</p>		<p>(2,08) .082</p> <p>(2,00) .0787</p> <p>(2,00) .0787</p> <p>(4,00) .158</p>	
		<p>(5,46) .215</p> <p>(0,51) .020</p> <p>(3,56) .140</p>		<p>(2,74) .108</p> <p>(0,81) .032</p>	



Due to technical progress, all designs, specifications and components are subject to change without notice.

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