

# RUGGED TIGER EYE™ SYSTEMS

(1.27 mm) .050" PITCH

MAX  
**3.2**  
A m p s

**8**  
G b p s

## FEATURES & BENEFITS

- Screw down, locking clip, friction latching and weld tab ruggedizing options
- Shrouded, polarized and keyed
- Surface mount or through-hole tails
- High-density, four row design (FOLC/MOLC Series)
- Discrete wire assemblies available in single or double row, 28 and 30 AWG PVC or Teflon® wire; contact [asp@samtec.com](mailto:asp@samtec.com) for custom solutions
- Cable components (ISDF/CC03) and tooling available

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## KEY SPECIFICATIONS (TFM/SFM)

| PITCH   | STACK HEIGHTS | INSULATOR MATERIAL | CONTACT MATERIAL                    | PLATING                             | OPERATING TEMP RANGE | CURRENT RATING                    | VOLTAGE RATING | MAX CYCLES   |
|---------|---------------|--------------------|-------------------------------------|-------------------------------------|----------------------|-----------------------------------|----------------|--|
| 1.27 mm | 6 to 12 mm    | Black LCP          | BeCu (SFM)<br>Phosphor Bronze (TFM) | Au or Sn over 50 μ"<br>(1.27 μm) Ni | -55 °C to +125 °C    | 3.2 A per pin<br>(2 pins powered) | 250 VAC        | 10,000<br>with 30 μ"<br>(0.76 μm) Au<br><br>(Call Samtec for<br>E.L.P.™ plating<br>option) |

**TIGER™  
EYE**  
CONTACT



IDC cable assemblies with rugged strain relief (FFSD/FFMD, FFTP/FMTP)



Locking for increased unmating force (SFML/TFML)

**(1.27 mm) .050" PITCH • SMT/THROUGH-HOLE SOCKET**

| SERIES                   | 1 | NO. PINS PER ROW  | LEAD STYLE  | PLATING OPTION   | ROW OPTION   | OPTIONS   |
|--------------------------|---|---|---|--|--|---|
| <b>SFM</b><br>= Standard |   | <b>03, 04, 06, 08</b><br>(SFM only)                                   | (Surface Mount) (Through-hole)                                | <b>-L</b><br>= 10 μm (0.25 μm) Gold on contact, Matte Tin on tail (Call Samtec for E.L.P.™ plating option) | <b>-S</b><br>= Single Row (SFM only)   | Specify only<br>-A, -LC or -DS<br>(Not available with -DH, -SH)   |
| <b>SFML</b><br>= Locking |   | <b>05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50</b><br>(Standard sizes) | <b>-02</b><br>= Tiger Eye™ Contact (BeCu)                     | <b>-01, -03</b><br>= Tiger Eye™ Contact (BeCu)   | <b>-D</b><br>= Double Row  | <b>-K</b><br>= Polyimide film Pick & Place Pad (Not available with -DH, -SH)  |
|                          |   |   | <b>-L2</b><br>= Low Insertion Force Tiger Eye™ Contact (BeCu) | <b>-L1, -L3</b><br>= Low Insertion Force Tiger Eye™ Contact (BeCu)   | <b>-SH</b><br>= Single Horizontal (05 thru 30 positions only) (SFM only) (Lead style -02 only) | <b>-LC</b><br>= Locking Clip (Manual placement required)  |
|                          |   |   | <b>-T2</b><br>= Tiger Eye™ LITE Contact (Phosphor Bronze)     | <b>-T1</b><br>= Tiger Eye™ LITE Contact (Phosphor Bronze)  | <b>-DH</b><br>= Double Horizontal (05 thru 30 positions only) (SFM only) (Lead style -02 only) | <b>-DS</b><br>= Dual Screw Down for (1.60 mm) .062" PCB (05 thru 40 positions only) (Lead styles -01, -02 & -03 only) (Requires -D row option) (Not available with SFML) (Mates with TFM-DS option) (Not available with -A, -LC, -K, -P, -XR) |
|                          |   |   |   |  |  | <b>-P</b><br>= Plastic Pick & Place Pad (Not available with -DH, -SH)   |
|                          |   |   |   |  |  | <b>-TR</b><br>= Tape & Reel   |
|                          |   |   |   |  |  | <b>-FR</b><br>= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)   |

**SFM**

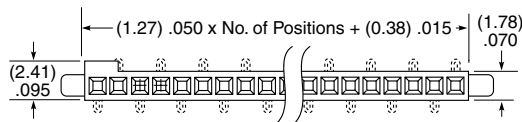
Board Mates:  
TFM

Cable Mates:  
TFSD, TFSS

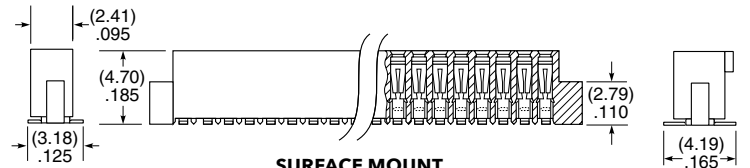


**SFML**

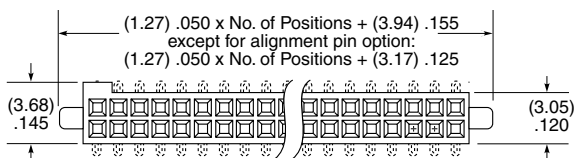
Board Mates:  
TFML



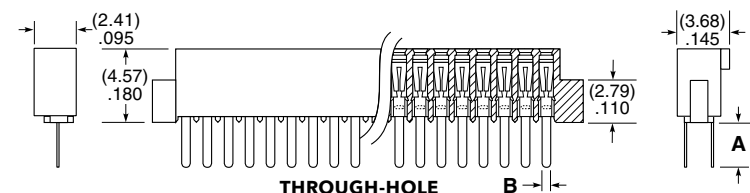
**SINGLE ROW**



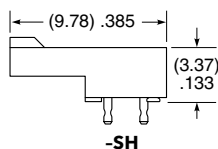
**SURFACE MOUNT**



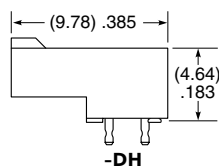
**DOUBLE ROW**



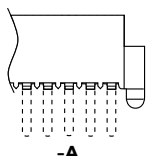
**THROUGH-HOLE**



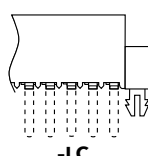
**-SH**



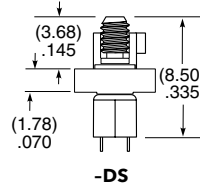
**-DH**



**-A**



**-LC**



**-DS**

| LEAD STYLE    | A           | B           |
|---------------|-------------|-------------|
| -01, -L1, -T1 | (3.05) .120 | (0.51) .020 |
| -03, -L3      | (1.91) .075 | (0.41) .016 |

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

View complete specifications at: [samtec.com?SFM](http://samtec.com?SFM) & [samtec.com?SFML](http://samtec.com?SFML)

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