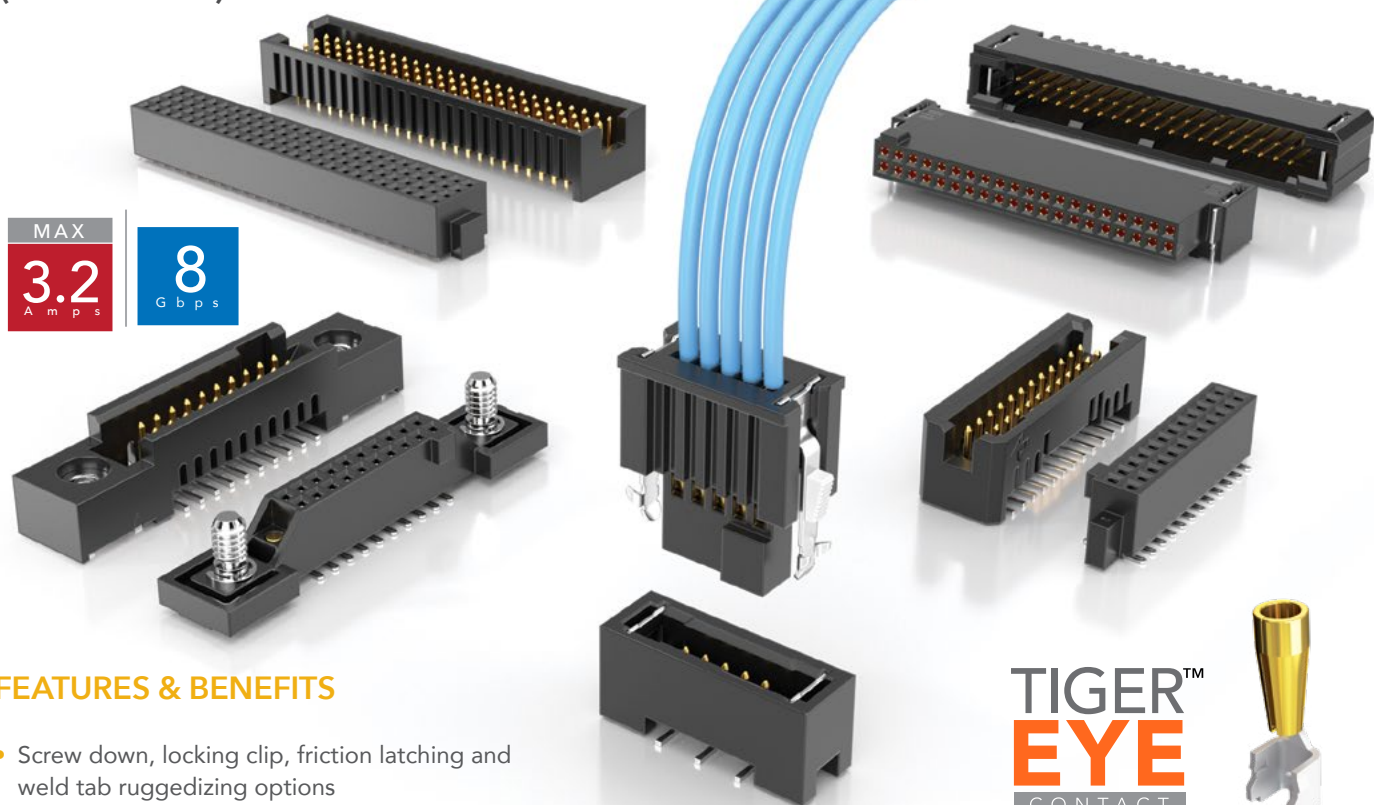


# RUGGED TIGER EYE™ SYSTEMS

(1.27 mm) .050" PITCH



## 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

**TIGER™  
EYE**  
CONTACT



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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" (1.27 μm) Ni | -55 °C to +125 °C    | 3.2 A per pin (2 pins powered) | 250 VAC        | 10,000 with 30 μ" (0.76 μm) Au<br>(Call Samtec for E.L.P.™ plating option) |

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

Locking for increased unmating force (SFML/TFML)

| 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) <b>-02</b><br>= Tiger Eye™ Contact (BeCu)     | (Through-hole) <b>-01, -03</b><br>= Tiger Eye™ Contact (BeCu)      | <b>-L</b><br>= 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail (Call Samtec for E.L.P.™ plating option) | Specify only -A, -LC or -DS (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>-L2</b><br>= Low Insertion Force Tiger Eye™ Contact (BeCu) | <b>-L1, -L3</b><br>= Low Insertion Force Tiger Eye™ Contact (BeCu) | <b>-D</b><br>= Double Row                                                                                  | Specify only -K or -P (Lead styles -02, -L2, -T2 only)                                                                                                                                                                                        |
|                          |   |                                                                       | <b>-T2</b><br>= Tiger Eye™ LITE Contact (Phosphor Bronze)     | <b>-T1</b><br>= Tiger Eye™ LITE Contact (Phosphor Bronze)          | <b>-SH</b><br>= Single Horizontal (05 thru 30 positions only) (SFM only) (Lead style -02 only)             | <b>-A</b><br>= Alignment Pin                                                                                                                                                                                                                  |
|                          |   |                                                                       |                                                               |                                                                    | <b>-DH</b><br>= Double Horizontal (05 thru 30 positions only) (SFM only) (Lead style -02 only)             | <b>-LC</b><br>= Locking Clip (Manual placement required)                                                                                                                                                                                      |
|                          |   |                                                                       |                                                               |                                                                    |                                                                                                            | <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>-K</b><br>= Polyimide film Pick & Place Pad (Not available with -DH, -SH)                                                                                                                                                                  |
|                          |   |                                                                       |                                                               |                                                                    |                                                                                                            | <b>-P</b><br>= Plastic Pick & Place Pad (Not available with -DH, -SH)                                                                                                                                                                         |
|                          |   |                                                                       |                                                               |                                                                    |                                                                                                            | Specify -TR or -FR last; Required for -DH & -SH. (Lead styles -02, -L2 & -T2 only)                                                                                                                                                            |
|                          |   |                                                                       |                                                               |                                                                    |                                                                                                            | <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)                                                                                                                                 |

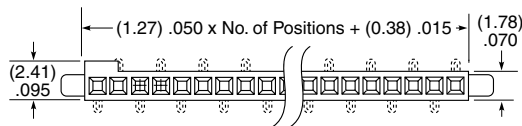
## SFM

Board Mates:  
TFM

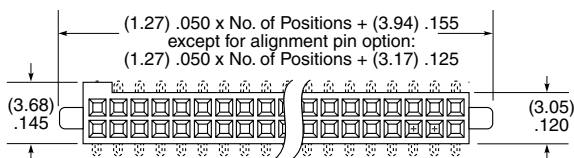
Cable Mates:  
TFSD, TFSS

## SFML

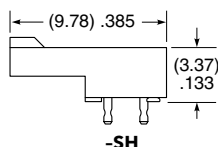
Board Mates:  
TFML



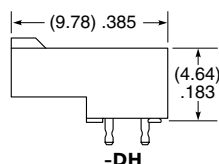
SINGLE ROW



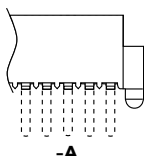
DOUBLE ROW



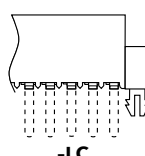
-SH



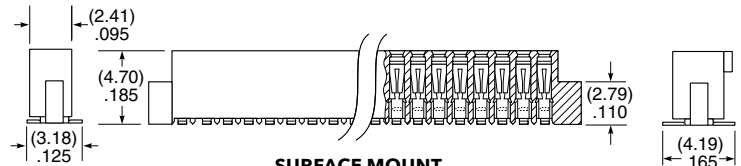
-DH



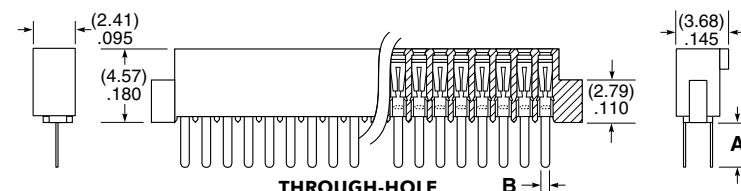
-A



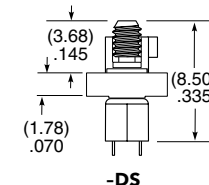
-LC



SURFACE MOUNT



THROUGH-HOLE



-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)