

# 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



Dupont™ Teflon® is a registered trademark of the E.I. du Pont de Nemours and Company or its affiliates.

## 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) 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 (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
--------	---	------------------	------------	----------------	------------	---------

**TFM**  
= Standard

**TFML**  
= Locking  
(-01 & -02  
lead style  
only)

**03, 04,  
06, 08**  
(TFM -01 &  
-02 only)

**05, 07,  
10, 15, 20,  
25, 30, 35,  
40, 45, 50**  
(Standard sizes)

**Specify  
LEAD  
STYLE  
from  
chart**

**-L**  
= 15 μ"  
(0.38 μm)  
Gold on post,  
Matte Tin on tail  
(Call Samtec  
for E.L.P.<sup>™</sup>  
plating option)

**-S**  
= Single Row  
(TFM only)

**-D**  
= Double Row

**-DH\***  
= Double  
Horizontal  
(TFM lead  
style -02 only)  
(05 thru 50  
positions only)  
(-TR or -FR  
option only  
available)

Specify only -RA,  
-RE1 or -RE2

**-RA**  
= Right-angle  
(Lead style  
-01 only)

**-RE1**  
= Right-angle  
Elevated for  
(1.60 mm) .062" PCB  
(Requires TFM  
lead style -01,  
-D row and -WT)

**-RE2**  
= Right-angle  
Elevated for  
(2.36 mm) .093" PCB  
(Requires TFM lead  
style -01, -D row  
and -WT)

Specify only -A,  
-LC, -DS or -WT  
Not available with -RA,  
-RE1 and -RE2 unless  
otherwise noted.

**-A**  
= Alignment Pin

**-LC**  
= Locking Clip  
(Manual Placement  
required)

**-DS**  
= Dual  
Screw Down  
for (1.60 mm)  
.062" PCB  
(05, 07, 10, 15, 20,  
25, 30, 35, 40  
positions only)  
(TFM lead styles  
-01 and -02 only)  
(Requires -D  
row option)  
(Mates with  
SFM-DS option and  
SFSD/SFSDT -SS and  
-DS option only)  
(Not available with -A,  
-LC, -WT, -K, -P, -XR)

**-WT**  
= Weld Tab  
(TFM lead styles  
-01 and -02 only)  
(Required callout  
for -RE1 & -RE2)  
(Mates to SFSS/SFSD  
-SR and -DR  
option only)  
(05, 07, 10, 15, 20,  
25, 30, 35, 40, 45, 50  
positions only)

SMT lead styles only  
Specify only -K or -P

**-K**  
= Polyimide Film  
Pick & Place Pad

**-P**  
= Plastic Pick  
& Place Pad  
(5 positions min.)  
(Not available with  
5 position with -WT)

Specify -TR or -FR last  
(Not available with -DS)

**-TR**  
= Tape & Reel

**-FR**  
= Full Reel  
Tape & Reel  
(must order max.  
quantity per reel;  
contact Samtec for  
quantity breaks)

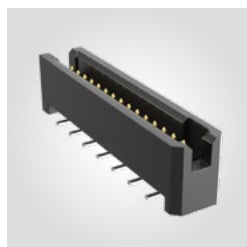
## TFM

**Board Mates:**

SFM, SFMC

**Cable Mates:**

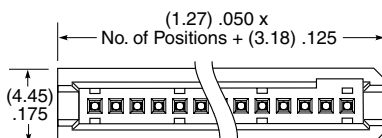
SFSD



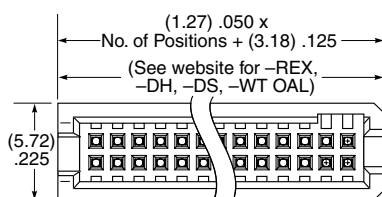
## TFML

**Board Mates:**

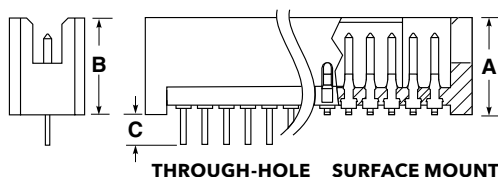
SFML



**SINGLE ROW**



**DOUBLE ROW**



**THROUGH-HOLE SURFACE MOUNT**



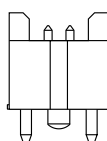
**-LC**



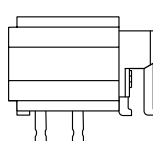
**-A**



**-WT**



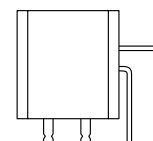
**-DS**



**-DH\***



**-RA**



**-RE1 & -RE2**

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

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

# Mouser Electronics

Authorized Distributor

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

[Samtec:](#)

[TFM-110-01-S-D-RE1-WT](#)