

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 for custom solutions
- Cable components (ISDF/CC03) and tooling available

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

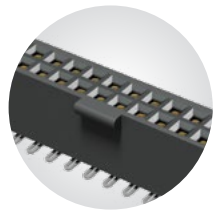
KEY SPECIFICATIONS (TFM/SFM)

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)

**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
SFM = Standard		03, 04, 06, 08 (SFM only)	(Surface Mount) -02 = Tiger Eye™ Contact (BeCu)	(Through-hole) -01, -03 = Tiger Eye™ Contact (BeCu)	-L = 10 μm (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)
SFML = Locking		05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Standard sizes)	-L2 = Low Insertion Force Tiger Eye™ Contact (BeCu)	-L1, -L3 = Low Insertion Force Tiger Eye™ Contact (BeCu)	-D = Double Row	Specify only -K or -P (Lead styles -02, -L2, -T2 only)
			-T2 = Tiger Eye™ LITE Contact (Phosphor Bronze)	-T1 = Tiger Eye™ LITE Contact (Phosphor Bronze)	-SH = Single Horizontal (05 thru 30 positions only) (SFM only) (Lead style -02 only)	-A = Alignment Pin
					-DH = Double Horizontal (05 thru 30 positions only) (SFM only) (Lead style -02 only)	-LC = Locking Clip (Manual placement required)
						-DS = 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)
						-K = Polyimide film Pick & Place Pad (Not available with -DH, -SH)
						-P = Plastic Pick & Place Pad (Not available with -DH, -SH)
						Specify -TR or -FR last; Required for -DH & -SH. (Lead styles -02, -L2 & -T2 only)
						-TR = Tape & Reel
						-FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

SFM

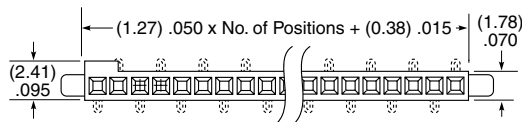
Board Mates:
TFM

Cable Mates:
TFSD, TFFS

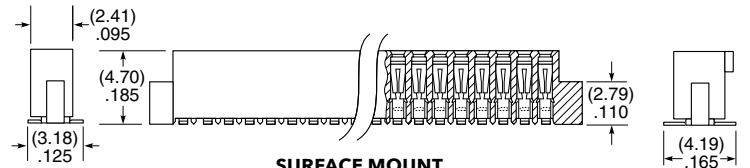


SFML

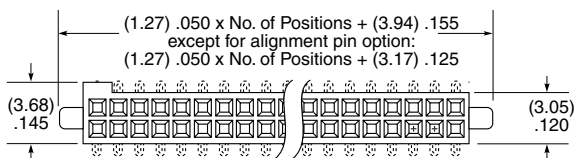
Board Mates:
TFML



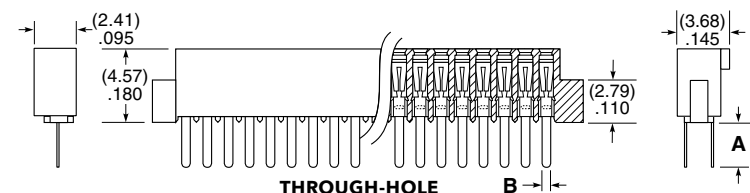
SINGLE ROW



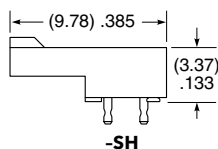
SURFACE MOUNT



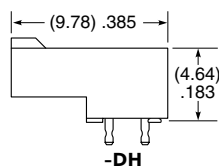
DOUBLE ROW



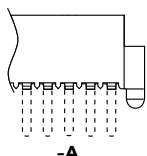
THROUGH-HOLE



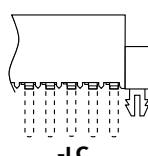
-SH



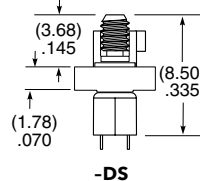
-DH



-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 & samtec.com?SFML

Mouser Electronics

Authorized Distributor

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

Samtec:

[SFM-125-02-S-D-A-P-TR](#) [SFM-135-L2-S-D-A](#) [SFM-105-03-S-D-LC](#) [SFM-105-01-S-D](#) [SFM-110-02-L-D-A](#) [SFM-115-02-S-D](#) [SFM-125-03-S-D](#) [SFM-140-02-S-D-A](#) [SFM-150-02-S-D-A](#) [SFM-130-02-S-D-LC-K-TR](#) [SFM-105-02-S-D-LC](#) [SFM-125-02-S-D-LC](#) [SFM-135-02-S-D-A-P-TR](#) [SFM-115-02-S-D-LC-P-TR](#) [SFM-150-02-S-D-LC](#) [SFM-110-02-S-D-A](#) [SFM-125-02-S-D-A](#) [SFM-140-02-S-D](#) [SFM-110-02-S-D-A-P-TR](#) [SFM-105-02-S-D-A-K-TR](#) [SFM-105-02-S-D-K-TR](#) [SFM-130-02-S-D-LC](#) [SFM-105-02-S-D](#) [SFM-115-02-S-D-K-TR](#) [SFM-140-L2-S-D-LC](#) [SFM-120-02-S-D-A-P-TR](#) [SFM-130-01-S-D-A](#) [SFM-110-02-S-D-LC](#) [SFM-120-02-S-D-A](#) [SFM-115-02-S-D-A](#) [SFM-115-01-S-D-LC](#) [SFM-105-T2-F-D-A-K-TR](#) [SFM-110-02-S-D-A-TR](#) [SFM-105-03-S-D-A](#) [SFM-135-02-S-D-A](#) [SFM-105-02-S-D-A](#) [SFM-130-02-S-D-A](#) [SFM-140-02-L-D-LC](#) [SFM-120-L2-S-D-LC](#) [SFM-125-02-L-D-A](#) [SFM-115-02-L-D-A-K-TR](#) [SFM-130-L2-S-D-LC](#) [SFM-130-02-L-DH-TR](#) [SFM-135-01-S-D](#) [SFM-120-02-L-DH-TR](#) [SFM-105-02-L-D-LC](#) [SFM-125-02-L-D](#) [SFM-110-02-L-D](#) [SFM-120-02-L-D-LC](#) [SFM-105-L2-S-D](#) [SFM-105-02-L-D-A](#) [SFM-115-02-S-D-LC](#) [SFM-125-01-L-D-LC](#) [SFM-110-02-S-D-P-TR](#) [SFM-105-02-S-D-LC-P-TR](#) [SFM-105-03-S-D](#) [SFM-130-02-S-D-A-K-TR](#) [SFM-150-01-S-D-A](#) [SFM-125-02-L-D-LC](#) [SFM-130-02-L-D-LC](#) [SFM-105-L2-S-D-LC](#) [SFM-110-02-S-D-A-P](#) [SFM-110-02-SM-D-A-K-TR](#) [SFM-120-01-L-D](#) [SFM-150-02-S-D](#) [SFM-106-02-L-D](#) [SFM-115-01-S-D-A](#) [SFM-107-02-L-D](#) [SFM-107-02-L-D-K-TR](#) [SFM-130-02-S-D](#) [SFM-106-01-L-D-A](#) [SFM-106-02-L-D-LC](#) [SFM-107-01-L-D](#) [SFM-125-02-S-D-A-K-TR](#) [SFM-125-L2-L-D-A](#) [SFM-140-01-L-D-A](#) [SFM-110-01-S-D-A](#) [SFM-145-L2-S-D-LC](#) [SFM-135-02-S-D-LC](#) [SFM-110-01-S-D-LC](#) [SFM-105-02-L-D-A-K-TR](#) [SFM-125-L2-S-D-A](#) [SFM-115-02-L-DH-TR](#) [SFM-115-02-S-D-A-P](#) [SFM-110-03-S-D](#) [SFM-110-02-S-D](#) [SFM-120-01-S-D](#) [SFM-130-L2-S-D-A](#) [SFM-135-02-L-D-A](#) [SFM-105-02-L-D-K-TR](#) [SFM-115-01-L-D-A](#) [SFM-115-02-L-D](#) [SFM-105-01-S-D-LC](#) [SFM-110-02-S-D-A-K-TR](#) [SFM-120-02-S-D-LC](#) [SFM-120-02-L-D-A](#) [SFM-110-01-S-D](#) [SFM-110-02-S-D-LC-P-TR](#) [SFM-115-02-L-D-A-K](#) [SFM-125-01-S-D](#)