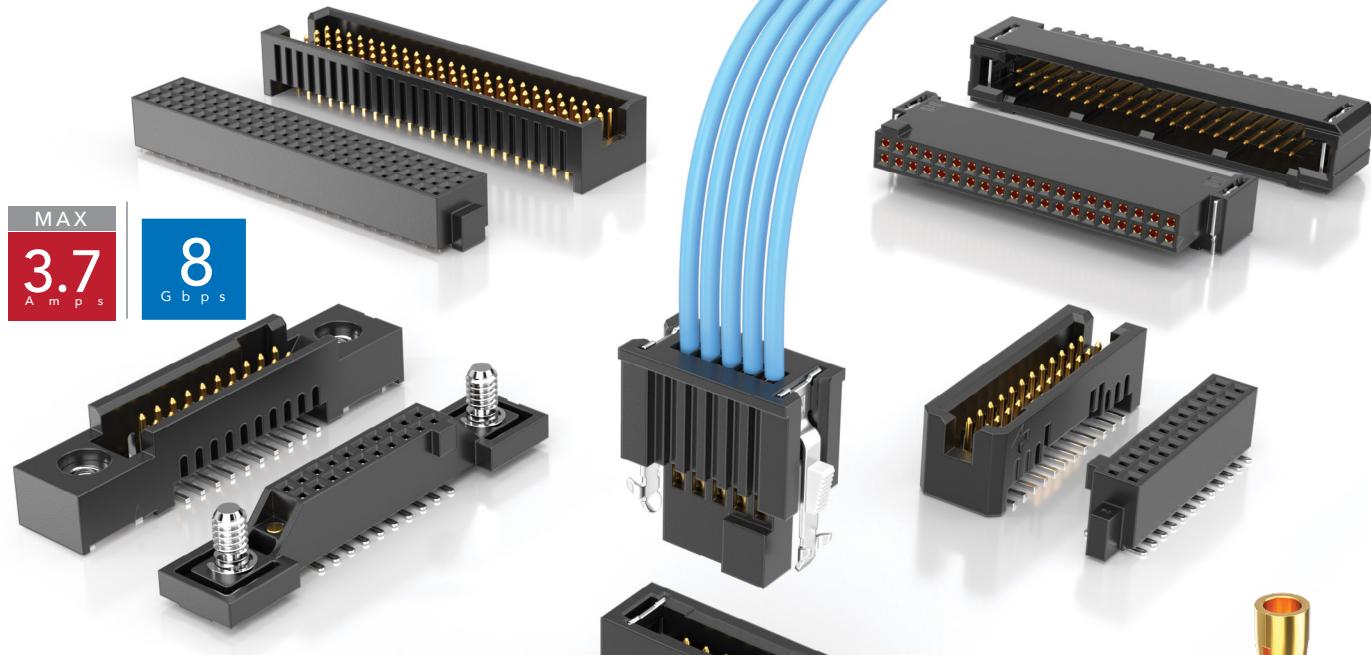


RUGGED TIGER EYE™ SYSTEMS

(1.27 mm) .050" PITCH



FEATURES & BENEFITS

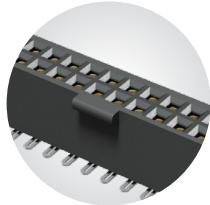
- Screw down, locking clip, friction latching and weld tab ruggedizing options
- Shrouded, polarized and keyed
- Surface mount or through-hole tails
- High-density, four row design (FOLC/MOLC Series)
- Wire to board assemblies available in single or double row, 28 and 30 AWG PVC or *Teflon™ Fluoropolymer (See pages 254-255). Contact asp@samtec.com for custom solutions.
- Cable components (ISDF/CC03) and tooling available: samtec.com/tooling
- Severe Environment Testing qualified (SFM/TFM); aligns with MIL-DTL-55302. Visit samtec.com/set

*Teflon™ is a trademark of The Chemours Company FC, LLC used under license by Samtec.

**TIGER™
EYE
CONTACT**



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



Locking for increased unmating force (SFM/TFM)

KEY SPECIFICATIONS

Series	Stack Heights	Insulator Material	Contact Material	Plating	Operating Temp Range	Current Rating	Voltage Rating	Max. Cycles	Lead-Free Solderable
SFM/TFM	6 to 12 mm	Black LCP	BeCu (SFM) Phosphor Bronze (TFM)	Au or Sn over 50 μ " (1.27 μ m) Ni	-55 °C to +125 °C	3.7 A per pin (2 pins powered)	250 VAC/ 354 VDC	10,000 with 30 μ " (0.76 μ m) Au	Yes
SFC/TFC	6 to 12 mm	Black LCP	Phosphor Bronze	Au or Sn over 50 μ " (1.27 μ m) Ni	-55 °C to +125 °C	2.9 A per pin (2 pins powered)	275 VAC/ 389 VDC	(Call Samtec for E.L.P.™ plating option)	Yes

SERIES	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OPTIONS
TFM = Standard		03, 04, 06, 08 (TFM -01 & -02 only)	Specify LEAD STYLE from chart	-F = Gold flash on contact, Matte Tin on tail	-S = Single Row (TFM only)	Specify only -RA, -RE1 or -RE2
TFML = Locking (-01 & -02 lead style only)		05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Standard sizes)		-L = 15 μ " (0.38 μ m) Gold on post, Matte Tin on tail (Call Samtec for E.L.P.™ plating option)	-D = Double Row	Specify only -A, -LC, -DS or -WT Not available with -RA, -RE1 and -RE2 unless otherwise noted.
TFM Board Mates: SFM, SFMC Cable Mates: SFSD, SFSS				-DH* = Double Horizontal (TFM lead style -02 only) (05 thru 50 positions only) (-TR or -FR option only available)	-RE1 = Right-angle Elevated for (1.60 mm) .062" PCB (Requires TFM lead style -01, -D row and -WT)	SMT lead styles only Specify only -K or -P
TFML Board Mates: SFML Cable Mates: SFSD, TFSD (-T end option)				-RE2 = Right-angle Elevated for (2.36 mm) .093" PCB (Requires TFM lead style -01, -D row and -WT)	-A = Alignment Pin	-K = Polyimide Film Pick & Place Pad
					-LC = Locking Clip (Manual Placement required)	-P = Plastic Pick & Place Pad (5 positions min.) (Not available with 5 position with -WT)
					-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)	-TR = Tape & Reel
					-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)	-FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)
MATED HEIGHTS*						
LEAD STYLE (SMT)		MATED HEIGHT*				
TFM	SFM					
-02			(6.35) .250			
-12		-02	(8.13) .320			
-22			(9.91) .390			
-32			(11.81) .465			
LEAD STYLE (T/H)		MATED HEIGHT*				
TFM	SFM					
-01			(5.97) .235			
-03			(5.97) .235			
-11		-01	(7.75) .305			
-13			(7.75) .305			
-21			(9.53) .375			
-23			(9.53) .375			
-31			(11.43) .450			

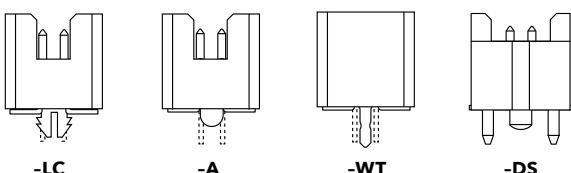
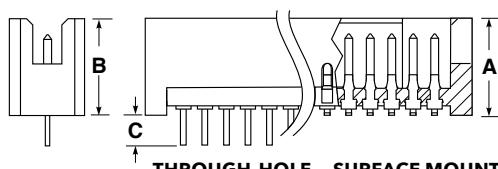
*Processing conditions will affect mated height.

LEAD STYLE (SMT)	A
-02	(5.72) .225
-12*	(7.49) .295
-22*	(9.27) .365
-32*	(11.18) .440

* N/A with 07, -DH or -S row option

LEAD STYLE (T/H)	B	C
-01	(5.59) .220	(1.97) .078
-03*	(5.59) .220	(2.77) .109
-11*	(7.37) .290	(1.97) .078
-13*	(7.37) .290	(2.77) .109
-21*	(9.14) .360	(1.97) .078
-23*	(9.14) .360	(2.77) .109
-31*	(11.05) .435	(1.97) .078

* Not Available with 07 or -S row option



Notes:
Severe Environment Testing qualified
(TFM); aligns with MIL-DTL-55302.
Visit samtec.com/set

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

View complete specifications at: samtec.com?TFM & samtec.com?TFML