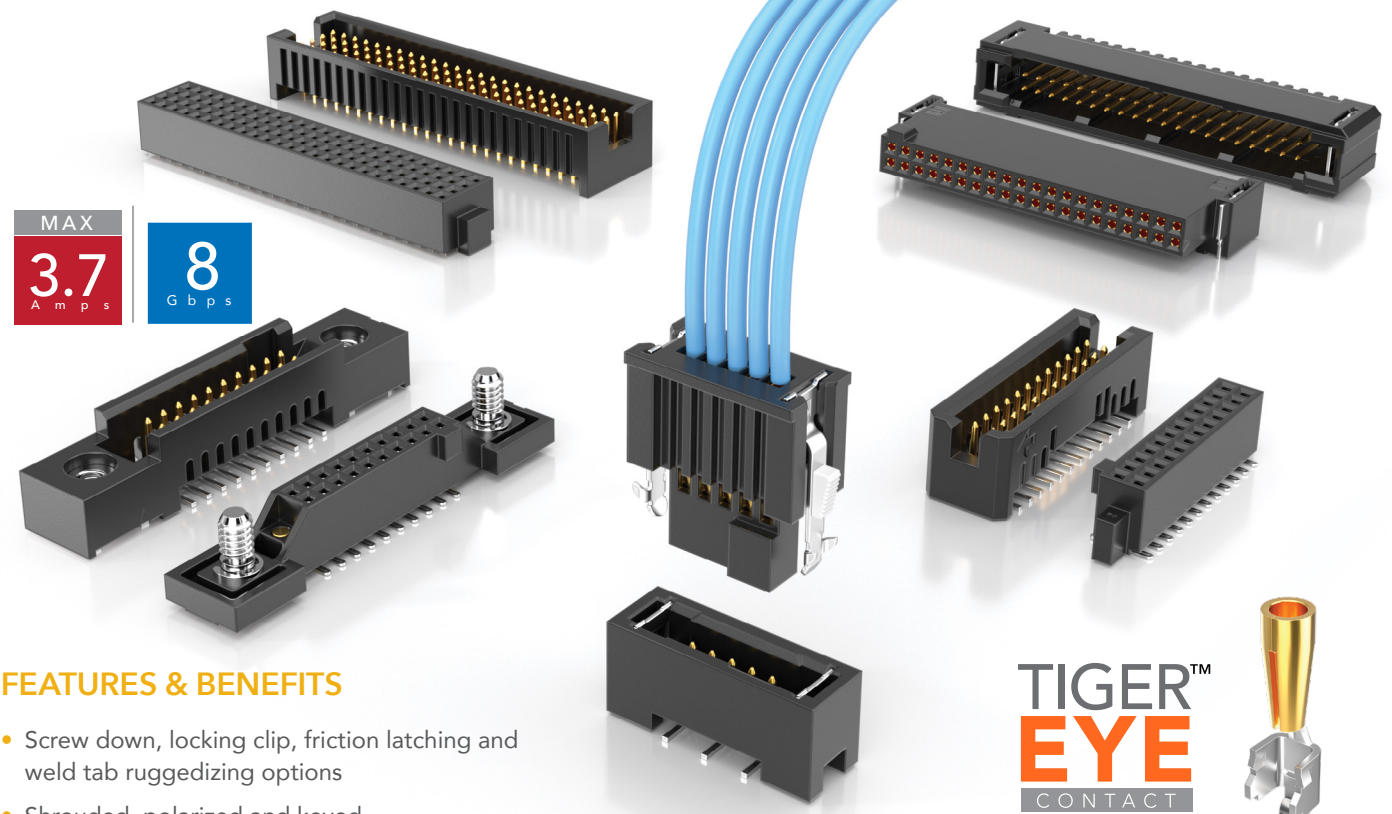
THE DATASHEET OF

SFM-120-L2-L-D-LC

TIGER™ EYE SYSTEM

RUGGED TIGER EYE™ SYSTEMS

(1.27 mm) .050" PITCH

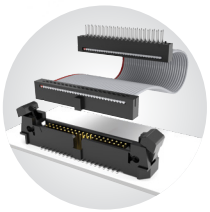


FEATURES & BENEFITS

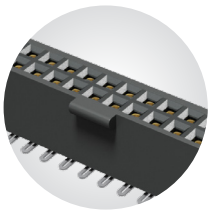
- Screw down, locking clip, friction latching and weld tab ruggedizing options
- Shrouded, polarized and keyed
- Surface mount or through-hole tails
- High-density, four row design (FOLC/MOLC Series)
- Discrete wire assemblies available in single or double row, 28 and 30 AWG PVC or *Teflon™ Fluoropolymer (See pages 238-239). 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 (SFML/TFML)

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 µm) Ni	-55 °C to +125 °C	3.7A per pin (2 pins powered)	275 VAC	10,000 with 30 µ" (0.76 µm) Au	Yes
SFC/TFC	6 to 12 mm	Black LCP	Phosphor Bronze	Au or Sn over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	3.1 A per pin (2 pins powered)	350 VAC	(Call Samtec for E.L.P.™ plating option)	Yes

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

TIGER™ EYE SYSTEM

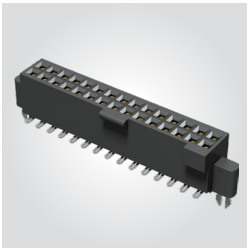
MAX 3.7 Amps | 8 Gbps

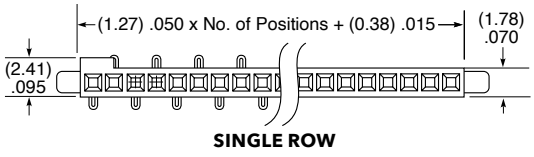
(1.27 mm) .050" PITCH • SMT/THROUGH-HOLE SOCKET

SERIES	1	NO. PINS PER ROW	LEAD STYLE		PLATING OPTION	ROW OPTION	OPTIONS	
			(Surface Mount)	(Through-hole)				
SFM = Standard **SFML** = Locking		**03, 04, 06, 08** (SFM only) **05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50** (Standard sizes)	**–02** = Tiger Eye™ Contact (BeCu) **–L2** = Low Insertion Force Tiger Eye™ Contact (BeCu) **–T2** = Tiger Eye™ LITE Contact (Phosphor Bronze)	**–01, –03** = Tiger Eye™ Contact (BeCu) **–L1, –L3** = Low Insertion Force Tiger Eye™ Contact (BeCu) **–T1** = Tiger Eye™ LITE Contact (Phosphor Bronze)	**–L** = 10 µ" (0.25 µm) Gold on contact, Matte Tin on tail (Call Samtec for E.L.P.™ plating option)	**–S** = Single Row (SFM only) **–D** = Double Row **–SH** = Single Horizontal (05 thru 30 positions only) (SFM only) (Lead style –02 only) **–DH** = Double Horizontal (05 thru 30 positions only) (SFM only) (Lead style –02 only)	Specify only –A, –LC or –DS (Not available with –DH, –SH) **–A** = Alignment Pin **–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)	Specify only –K or –P (Lead styles –02, –L2, –T2 only) **–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)

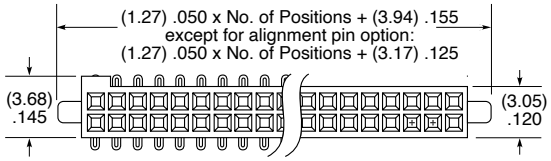
SFM
Board Mates: TFM
Cable Mates: TFSD, TFSS

SFML
Board Mates: TFML
Cable Mates: TFSD



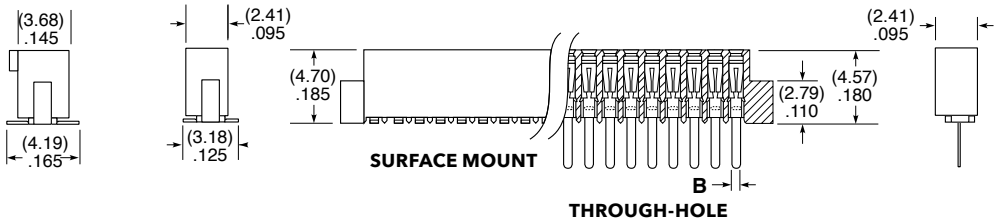


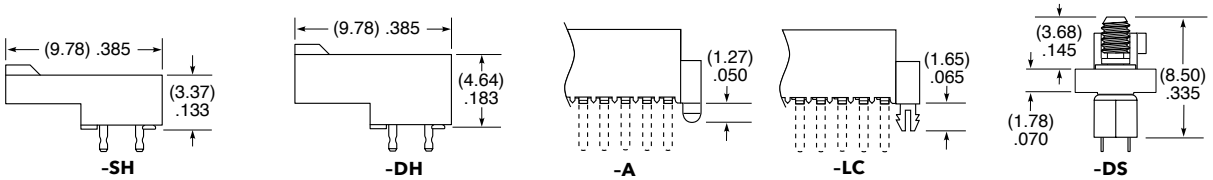
SINGLE ROW



DOUBLE ROW

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





Notes:
Severe Environment Testing qualified (SFM); 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?SFM** & **samtec.com?SFML**

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Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- View SFM-120-L2-L-D-LC on WIN SOURCE
- Samtec Inc. Information

Optimize Your Supply Chain with WIN SOURCE Solutions

- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management