

RUGGED TIGER EYE™ SYSTEMS

(1.27 mm) .050" PITCH

MAX
3.7
A m p s

8
G b p s

FEATURES & BENEFITS

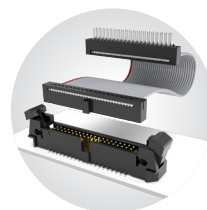
- Screw down, locking clip, friction latching and weld tab ruggedizing options
- Shrouded, polarized and keyed
- Surface mount or through-hole tails
- High-density, four row design (FOLC/MOLC Series)
- Discrete wire assemblies available in single or double row, 28 and 30 AWG PVC or *Teflon™ Fluoropolymer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

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	3.7 A per pin (2 pins powered)	250 VAC/ 354 VDC	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	2.9 A per pin (2 pins powered)	275 VAC/ 389 VDC	(Call Samtec for E.L.P.™ plating option)	Yes

**TIGER™
EYE**
CONTACT



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
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TFM
= Standard

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

TFM

Board Mates:

SFM, SFMC

Cable Mates:

SFSD, SFSS

TFML

Board Mates:

SFML

Cable Mates:

SFSD,

TFSD (-T end option)

**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**

-F
= Gold flash
on contact,
Matte Tin on tail

-L
= 15 µ"
(0.38 µm)
Gold on post,
Matte Tin on tail
(Call Samtec
for E.L.P.™
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

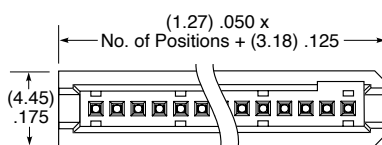
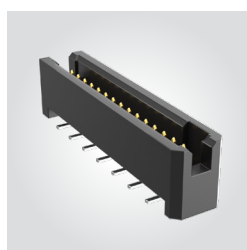
-K
= Polyimide Film
Pick & Place Pad

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

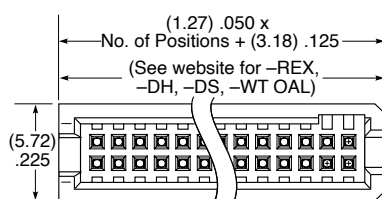
Specify -TR or -FR last
(Not available with -DS)

-TR
= Tape & Reel

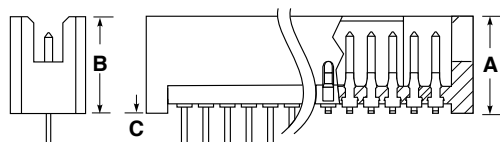
-FR
= Full Reel
Tape & Reel
(must order max.
quantity per reel;
contact Samtec for
quantity breaks)



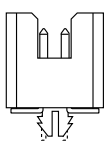
SINGLE ROW



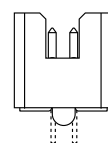
DOUBLE ROW



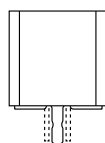
THROUGH-HOLE SURFACE MOUNT



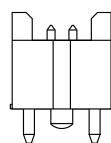
-LC



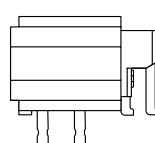
-A



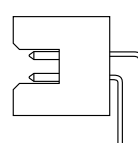
-WT



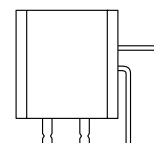
-DS



-DH*



-RA



-RE1 & -RE2

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

MATED HEIGHTS*			
LEAD STYLE (SMT)		MATED HEIGHT*	
TFM	SFM		
-02	-02		(6.35) .250
-12			(8.13) .320
-22			(9.91) .390
-32		(11.81) .465	
LEAD STYLE (T/H)		MATED HEIGHT*	
TFM	SFM		
-01	-01		(5.97) .235
-03			(5.97) .235
-11			(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