

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.

**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 |

(1.27 mm) .050" PITCH • COST-EFFECTIVE HEADER/SOCKET

| SFC | 1 | NO. PINS PER ROW | LEAD STYLE | PLATING OPTION | D | OPTIONS |
|-----|---|--|---|---|---|---|
| | | 04, 05, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Standard sizes) | -T1 = Through-hole Tiger Eye™ LITE -T2 = Surface Mount Tiger Eye™ LITE | -F = Gold flash on contact, Matte Tin on tail -L = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail | | -A = Alignment Pin -K = (4.00 mm) .157" DIA Polyimide film Pick & Place Pad -TR = Tape & Reel (-T2 only) -FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (-T2 only) |

SFC
Board Mates:
TFC
Cable Mates:
TFS, TFSDT




View complete specifications at: samtec.com?SFC

| TFC | 1 | NO. PINS PER ROW | LEAD STYLE | PLATING OPTION | D | OPTIONS |
|-----|---|--|---|--|---|--|
| | | 03, 04, 06, 08 (Lead Style -01 & -02 only) 05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Standard sizes) | -X1 = Through-hole -X2 = Surface Mount | -F = Gold flash on post, Matte Tin on tail -L = 15 μ" (0.38 μm) Gold on post, Matte Tin on tail | | -RA = Right-angle (-01 only) -A = Alignment Pin -LC = Locking Clip (Manual Placement required) (not available with -RA) -K = (6.75 mm) .266" DIA Polyimide film Pick & Place Pad (not available with -RA) -P = Plastic Pick & Place Pad (5 positions min.) (not available with -RA) -TR = Tape & Reel (-X2 only) (not available with -RA) -FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (-X2 only) (not available with -RA) |

TFC
Board Mates:
SFC
Cable Mates:
SFS, SFSDT





| SMT LEAD STYLE | A | B | TH LEAD STYLE | A | B |
|----------------|--------------|-------------|---------------|--------------|-------------|
| -02 | (5.72) .225 | (3.38) .133 | -01 | (5.59) .220 | (3.38) .133 |
| -12 | (7.49) .295 | | -11 | (7.37) .290 | |
| -22 | (9.27) .365 | (3.30) .130 | -21 | (9.14) .360 | (3.30) .130 |
| -32 | (11.18) .440 | | -31 | (11.05) .435 | |

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

View complete specifications at: samtec.com?TFC

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View SFC-103-T2-L-D-A 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