RUGGED TIGER EYE™ SYSTEMS

HIGH-RELIABILITY • MULTI-FINGER BeCu CONTACT • HIGH MATING CYCLES

2.00 mm PITCH TIGER EYE™

- Tiger Eye™ is Samtec’s most rugged contact system rated to 1,000+ mating cycles
- Wide range of stack heights
- Right-angle mating headers available
- Optional screw downs, weld tabs and locking clips
- Discrete wire assemblies available in 24-30 AWG PVC or Teflon® wire; contact asp@samtec.com for custom solutions

Components (ISD2/CC81) & tooling available: samtec.com/tooling

Optional strain relief and variety of wiring options
TIGER EYE™ CONTACT SYSTEM
• Multi-finger design with several points of contact for high-reliability
• Smooth, flat mating area increases mating cycles and lowers contact resistance
• Heat-treated BeCu for the best combination of mechanical and electrical properties
• Surface mount, micro slot tail increases solder surface area for higher joint strength

1.27 mm PITCH TIGER EYE™
• Screw down, locking clip, friction latching and weld tab ruggedizing options
• 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

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RUGGED TIGER EYE™ SYSTEMS

HIGH-RELIABILITY • MULTI-FINGER BeCu CONTACT • HIGH MATING CYCLES

0.80 mm PITCH TIGER EYE™

- Micro pitch and slim body for space-savings
- 6 mm, 7 mm and 10 mm stack heights
- Locking clip, alignment pins and weld tab ruggedizing features
- Discrete wire assembly available with 32 AWG Teflon® wire; contact asp@samtec.com for custom solutions
- Extended Life Product™ testing available

Vertical and right-angle mating headers

Locking for increased unmating force (SEML)
Components (ISDE/CC396) and tooling available: samtec.com/tooling
Compatible with UMPT/UMPS for power/signal flexibility
RUGGED MICRO MATE™ SYSTEMS

SPACE-SAVING • DESIGN FLEXIBILITY • HIGH-RELIABILITY

MICROMATE™

1.00 mm PITCH MICRO MATE™ SYSTEMS

- Crimp-style dual leaf contact system for reliable wire-to-board connection
- 28 and 30 AWG wire options in PVC or Teflon®
- Rugged positive latching for increased retention
- Socket or terminal, single or double row assemblies
- Vertical and right-angle mating headers

Components (ISS1, ISD1/CC09; IST1, IDT1, ISP1, IDP1/TC37) and tooling available: samtec.com/tooling

Custom solutions available (twisted pair cable shown); contact asp@samtec.com

samtec.com/micromate
RUGGED EDGE RATE® SYSTEMS

OPTIMIZED FOR SI PERFORMANCE • INCREASED CONTACT WIPE • HIGH CYCLES

0.50 mm PITCH EDGE RATE®
- 1.00 mm contact wipe for a reliable connection
- Rugged friction locks and weld tabs available
- Up to 40% PCB savings vs. ERM8/ERF8
- Compatible with UMPT/UMPS for flexible power/signal solutions

Stack Height Flexibility (in mm)

0.635 mm PITCH EDGE RATE®
- Extremely slim 2.5 mm body width
- Up to 120 positions in a 2-row design
- 5 mm stack height with others in development
- Compatible with UMPT/UMPS for flexible power/signal solutions

ERM6/ERF6
J lead for ease of processing

ERM5/ERF5
Right-angle available

Signal/power combination with UMPT/UMPS

Stack Height Flexibility (in mm)

samtec.com/edgerate
**EDGE RATE® CONTACT SYSTEM**

- Smooth milled mating surface reduces wear and increases durability
- Lower insertion and withdrawal forces
- Robust when “zippered” during unmating
- Minimized parallel surface area reduces broadside coupling and crosstalk
- Designed, simulated and optimized for 50 Ω and 100 Ω systems

**0.80 mm PITCH EDGE RATE®**

- 1.50 mm extended wipe
- Rugged metal latching for increased retention force
- 360° shielding option reduces EMI
- Compatible with UMPT/UMPS for flexible power/signal solutions
- Cost-effective metal solder lock in development for a more secure connection to the board

Stack Height Flexibility (in mm):

- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

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