

# RUGGED HIGH-SPEED STRIPS

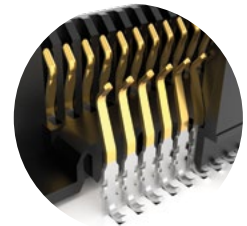


NRZ	PAM4
28 Gbps	56 Gbps

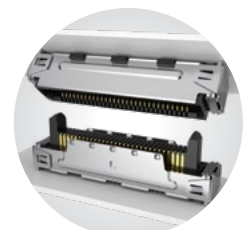
## FEATURES & BENEFITS

Edge Rate® rugged high-speed connector strips are designed for high-speed, high cycle applications, and enabled by Samtec's signal integrity-optimized Edge Rate® contact system.

- Up to 1.5 mm contact wipe for a reliable connection
- 20 to 200 positions
- Choice of 0.50 mm, 0.635 mm or 0.80 mm pitch
- 0.50 mm pitch system offers up to 40% PCB space savings vs. 0.80 mm pitch
- 0.635 mm pitch system with extremely slim 2.5 mm body width
- Rugged latching, extended guide posts and 360° shielding
- Severe Environment Testing qualified (ERM8/ERF8); aligns with MIL-DTL-55302. Visit [samtec.com/set](http://samtec.com/set)



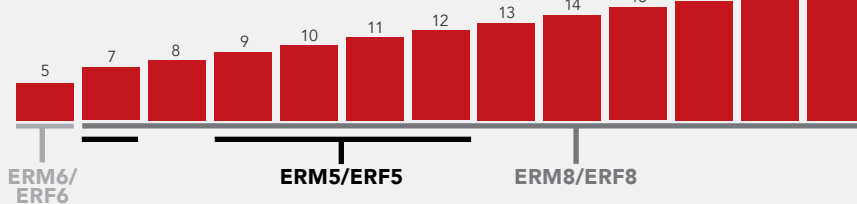
Signal integrity-optimized Edge Rate® contact system reduces broadside coupling



Rugged 360° shielding reduces EMI

### EDGE RATE® STACK HEIGHT FLEXIBILITY

(shown in mm)



## KEY SPECIFICATIONS

SERIES	PITCH	INSULATOR MATERIAL	TERMINAL MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
ERM5 / ERF5	0.50 mm	Black LCP	Phosphor Bronze or BeCu (ERM5), BeCu (ERF5)	Au or Sn over 50 μm (1.27 μm) Ni	-55 °C to +125 °C	1.5 A	190 VAC	Yes
ERM6 / ERF6	0.635 mm		Copper Alloy			1.4 A	155 VAC	
ERM8 / ERF8	0.80 mm		Phosphor Bronze or BeCu (ERM8), BeCu (ERF8)			1.4 A	225 VAC	

**(0.80 mm) .0315" PITCH • RIGHT-ANGLE & EDGE MOUNT HIGH-SPEED SOCKETS**

ERF8	POSITIONS PER ROW	01	PLATING OPTION	D	RA	OPTIONS	"X"R
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Right-Angle Socket

-010, -013, -020,  
-025, -030, -040,  
-049, -050, -060,  
-070, -075

-L  
= 10 μ" (0.25 μm)  
Gold on contact  
area, Matte Tin  
on tail

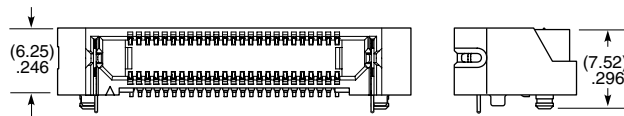
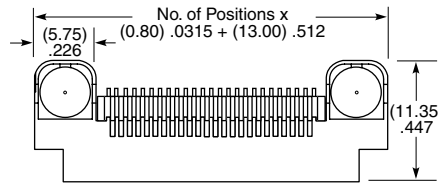
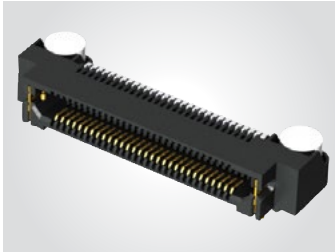
-L  
= Latching  
(N/A with -EGP Option)

-EGP  
= Extended Guide Post  
(N/A with -L Option)

-TR  
= Tape & Reel

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

**ERF8-RA**  
Board Mates:  
ERM8  
Cable Mates:  
ERCD, ERDP



View complete specifications at: [samtec.com?ERF8-RA](http://samtec.com?ERF8-RA)

ERF8	POSITIONS PER ROW	01	PLATING OPTION	D	EM2	OPTIONS	"X"R
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Edge Mount Socket

-010, -013,  
-020, -025,  
-030, -040,  
-049, -050,  
-060, -070,  
-075

-L  
= 10 μ" (0.25 μm)  
Gold on contact  
area, Matte Tin  
on tail

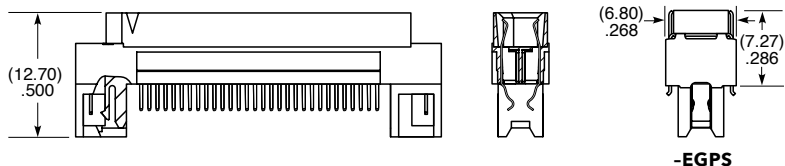
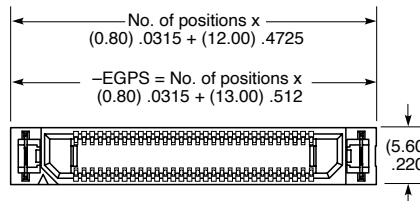
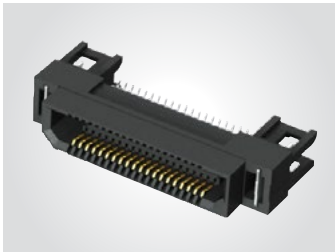
= (1.60 mm)  
.062" Thick  
PCB

-EGPS  
= Extended Guide Post Shield  
(-010, -020, -025, -030 Pos. only)

-TR  
= Tape & Reel

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

**ERF8-EM**  
Board Mates:  
ERM8



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

View complete specifications at: [samtec.com?ERF8-EM](http://samtec.com?ERF8-EM)