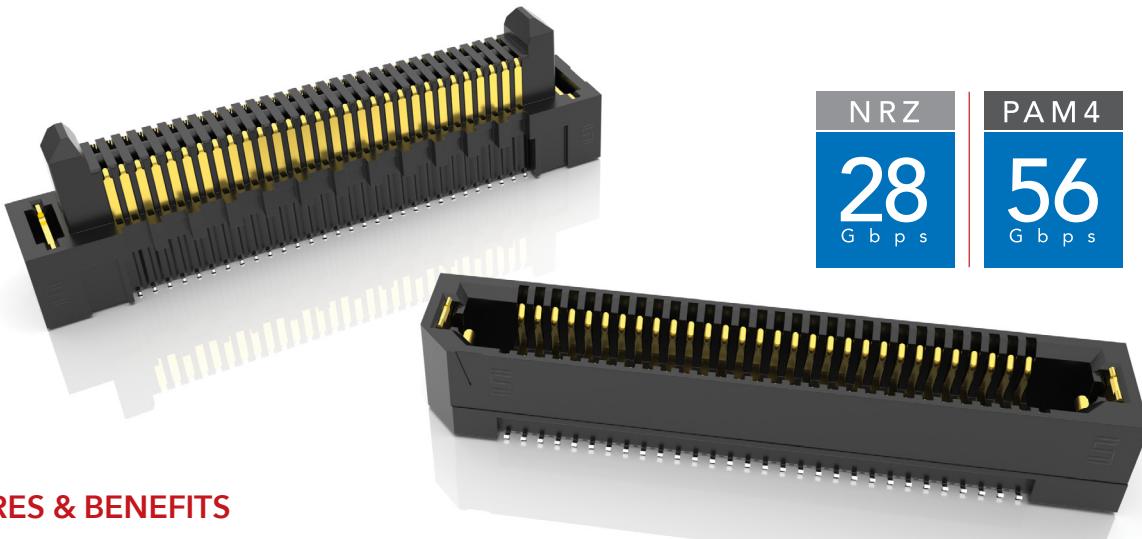


# RUGGED HIGH-SPEED STRIPS



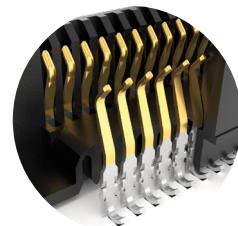
## FEATURES & BENEFITS

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.

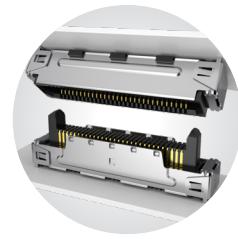
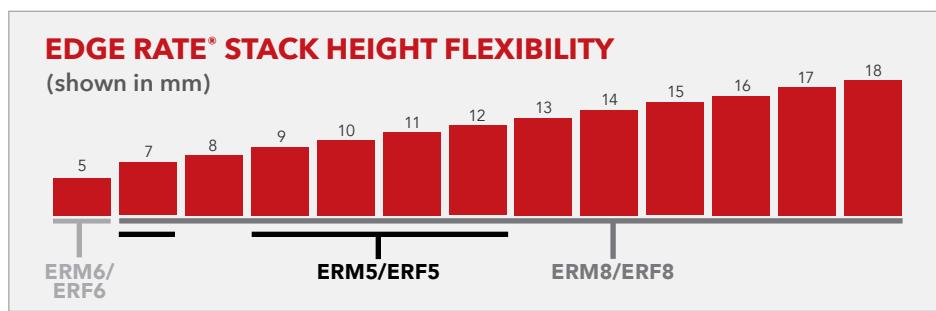
- Up to 1.5 mm contact wipe for a reliable connection
- 20 to 200 positions
- Choice of 0.50 mm, 0.635 mm or 0.80 mm pitch
- 0.50 mm pitch system offers up to 40% PCB space savings vs. 0.80 mm pitch
- 0.635 mm pitch system with extremely slim 2.5 mm body width
- Rugged latching, extended guide posts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

Visit [samtec.com/set](http://samtec.com/set)

**EDGE®**  
RATE  
CONTACT



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



Rugged 360° shielding  
reduces EMI

## KEY SPECIFICATIONS

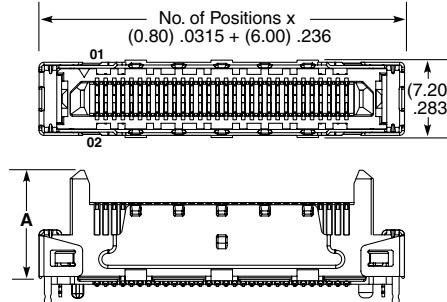
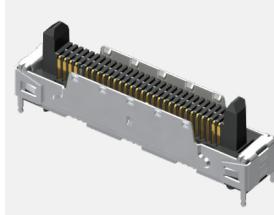
Series	Pitch	Insulator Material	Terminal Material	Plating	Operating Temp Range	Current Rating	Voltage Rating	Lead-Free Solderable
ERM5 / ERF5	0.50 mm	Black LCP	Phosphor Bronze or BeCu (ERM5), BeCu (ERF5)	Au or Sn over 50 $\mu$ " (1.27 $\mu$ m) Ni	-55 °C to +125 °C	1.5 A	190 VAC/ 269 VDC	Yes
ERM6 / ERF6	0.635 mm		Copper Alloy			1.4 A	155 VAC/ 219 VDC	
ERM8 / ERF8	0.80 mm		Phosphor Bronze or BeCu (ERM8), BeCu (ERF8)			2.2 A	225 VAC/ 318 VDC	

## (0.80 mm) .0315" PITCH • SHIELDED HIGH-SPEED HEADERS &amp; SOCKETS

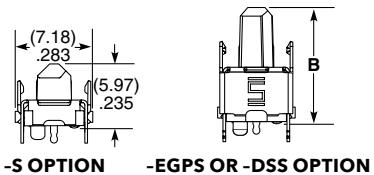
TYPE	POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	DV	OPTIONS	"X"R
<b>ERM8</b> = Shielded Terminal	<b>-010, -020, -025, -030</b>	<b>-02.0</b> = 2 mm (ERM8 with -S only)	<b>-L</b> = 10 $\mu$ " (0.25 $\mu$ m) Gold on contact, Matte Tin on tail	<b>-</b>	<b>-S</b> = Shield (Lead Styles: ERM8 -02.0 only; ERF8 -05.0 only)	<b>-TR</b> = Tape & Reel
<b>ERF8</b> = Shielded Socket	<b>-010, -020, -025, -030</b>	<b>-05.0</b> = 5 mm (ERF8 with -S & ERM8 with -EGPS & -DSS only)		<b>-EGPS</b> = Extended Guide Post Shield (Lead Styles: ERM8 -05.0 & -09.0 only; ERF8 -07.0 only)	<b>-FR</b> = Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks)	

**ERM8-S**  
**Board Mates:**  
 See "Mated Height" Chart

(Note: ERF8-S does not mate with ERM8-EGPS)



LEAD STYLE	A	B
-05.0	(9.87)	.389 (10.81) .425
-09.0	(13.87)	.546 (14.81) .583

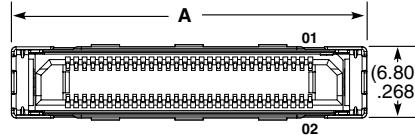

**-S OPTION**      **-EGPS OR -DSS OPTION**

 View complete specifications at: [samtec.com?ERM8](http://samtec.com?ERM8)

MATED HEIGHTS			
7 mm	9 mm	12 mm	16 mm
ERM8-02.0-S to ERF8-05.0-S	ERM8-02.0-S to ERF8-07.0-EGPS	ERM8-05.0-EGPS to ERF8-07.0-EGPS	ERM8-09.0-EGPS to ERF8-07.0-EGPS

**ERF8-S**  
**Board Mates:**  
 See "Mated Height" Chart

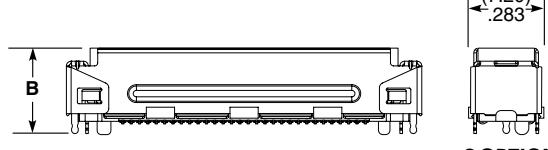
(Note: ERM8-EGPS does not mate with ERF8-S)



POSITIONS PER ROW	A
-010	(18.00) .71
-020	(26.00) 1.02
-025	(30.00) 1.18
-030	(34.00) 1.34

**Notes:**  
 Severe Environment Testing qualified; aligns with MIL-DTL-55302. Visit [samtec.com/set](http://samtec.com/set)

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


**-S OPTION**

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