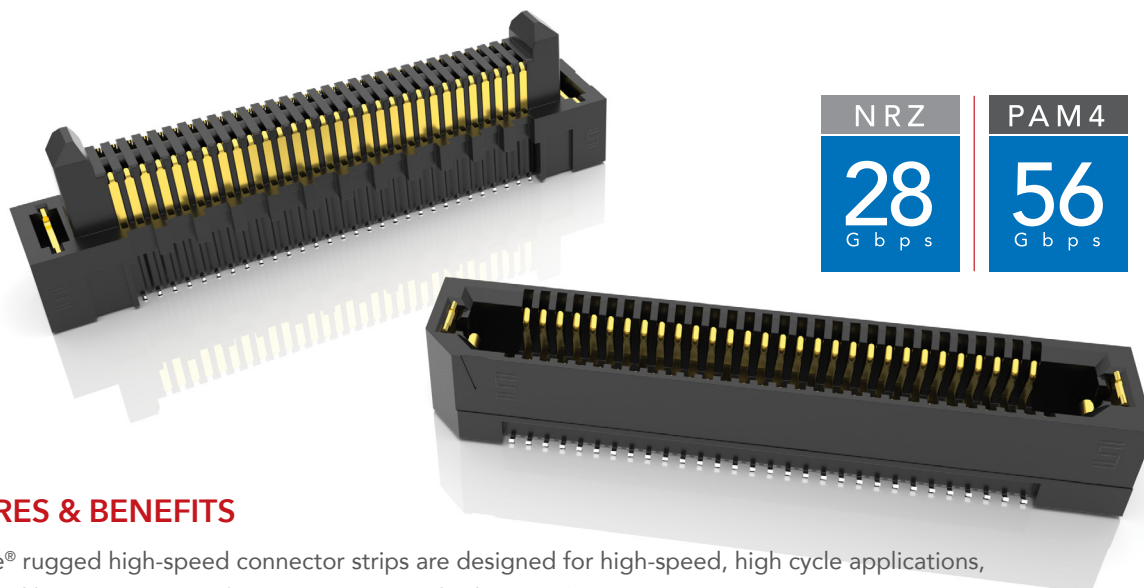


RUGGED HIGH-SPEED STRIPS



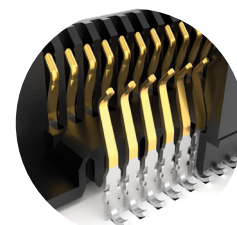
NRZ	PAM 4
28 Gbps	56 Gbps

FEATURES & BENEFITS

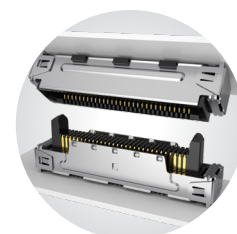
Edge Rate® rugged high-speed connector strips are designed for high-speed, high cycle applications, and enabled by Samtec's signal integrity-optimized Edge Rate® contact system.

- 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



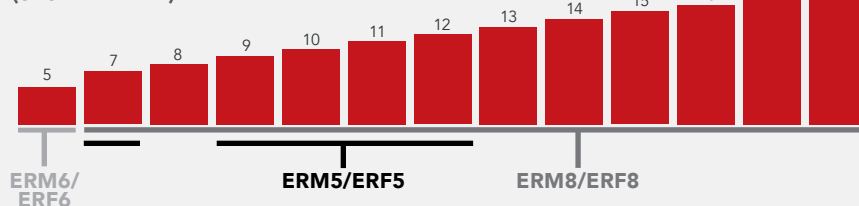
Signal integrity-optimized Edge Rate® contact system reduces broadside coupling



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 μ" (1.27 μm) 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)			1.4 A	225 VAC/ 318 VDC	

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

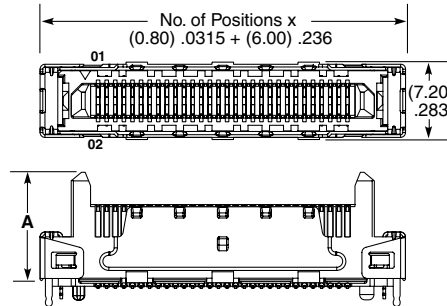
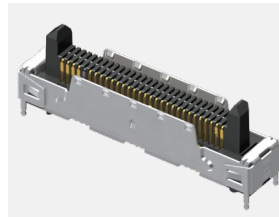
TYPE	POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	DV	OPTIONS	"X"R
ERM8 = Shielded Terminal	-010, -020, -025, -030	-02.0 = 2 mm (ERM8 with -S only)	-L = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail		-S = Shield (Lead Styles: ERM8 -02.0 only; ERF8 -05.0 only)	-TR = Tape & Reel
ERF8 = Shielded Socket		-05.0 = 5 mm (ERF8 with -S & ERM8 with -EGPS & -DSS only)	-S = 30 μ" (0.76 μm) Gold on contact, Matte Tin on tail		-EGPS = Extended Guide Post Shield (Lead Styles: ERM8 -05.0 & -09.0 only; ERF8 -07.0 only)	-FR = Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks)
		-07.0 = 7 mm (ERF8 with -EGPS only)			-DSS = Differential Pair with Extended Guide Post Shield (ERM8 only, with -05.0 & -09.0 Lead Styles, -10 & -025 Positions only)	
		-09.0 = 9 mm (ERM8 with -EGPS & -DSS only)			-K = Polyimide Film Pick & Place Pad (-02.0 Lead Style N/A)	
					-P = Pick & Place Pad (ERM8 -02.0 & -05.0 Lead Styles only)	

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

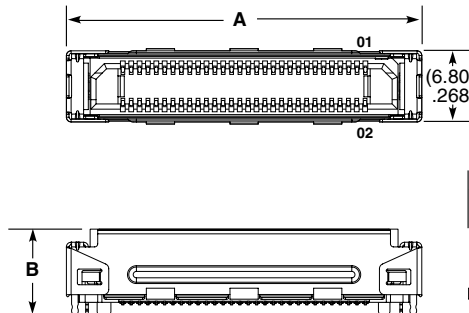
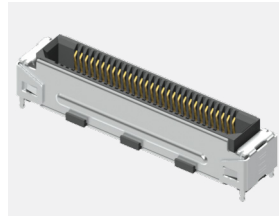
View complete specifications at: samtec.com?ERM8

ERF8-S

Board Mates:

See "Mated Height" Chart

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



LEAD STYLE	B (-S)	B (-EGPS)
-05.0	(5.90) .232	N/A
-07.0	N/A	(7.42) .292

Notes:

Severe Environment Testing qualified; aligns with MIL-DTL-55302. Visit samtec.com/set

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

-S OPTION

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

View complete specifications at: samtec.com?ERF8

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[ERF8-030-05.0-S-DV-S-TR](#) [ERF8-020-05.0-S-DV-S-TR](#) [ERF8-010-05.0-S-DV-S-TR](#) [ERF8-030-05.0-S-DV-S-K-TR](#)
[ERF8-010-05.0-L-DV-S-TR](#) [ERF8-025-05.0-S-DV-S-TR](#) [ERF8-025-05.0-L-DV-S-TR](#) [ERF8-030-05.0-L-DV-S-TR](#)
[ERF8-030-05.0-L-DV-S-K-TR](#) [ERF8-025-05.0-STL-DV-S-K-TR](#) [ERF8-020-05.0-S-DV-S-K-TR](#) [ERF8-025-05.0-S-DV-S-](#)
[K-TR](#) [ERF8-020-05.0-STL-DV-S-TR](#) [ERF8-020-05.0-L-DV-S-K-TR](#) [ERF8-025-05.0-L-DV-S-K-FR](#) [ERF8-025-05.0-L-](#)
[DV-S-K-TR](#) [ERF8-010-05.0-S-DV-S-K-FR](#) [ERF8-020-05.0-L-DV-S-TR](#) [ERF8-010-05.0-S-DV-S-K-TR](#) [ERF8-030-05.0-](#)
[L-DV-S-K-FR](#) [ERF8-030-05.0-S-DV-S-K-FR](#) [ERF8-010-05.0-L-DV-S-K-TR](#) [ERF8-020-05.0-L-DV-S-K-FR](#)