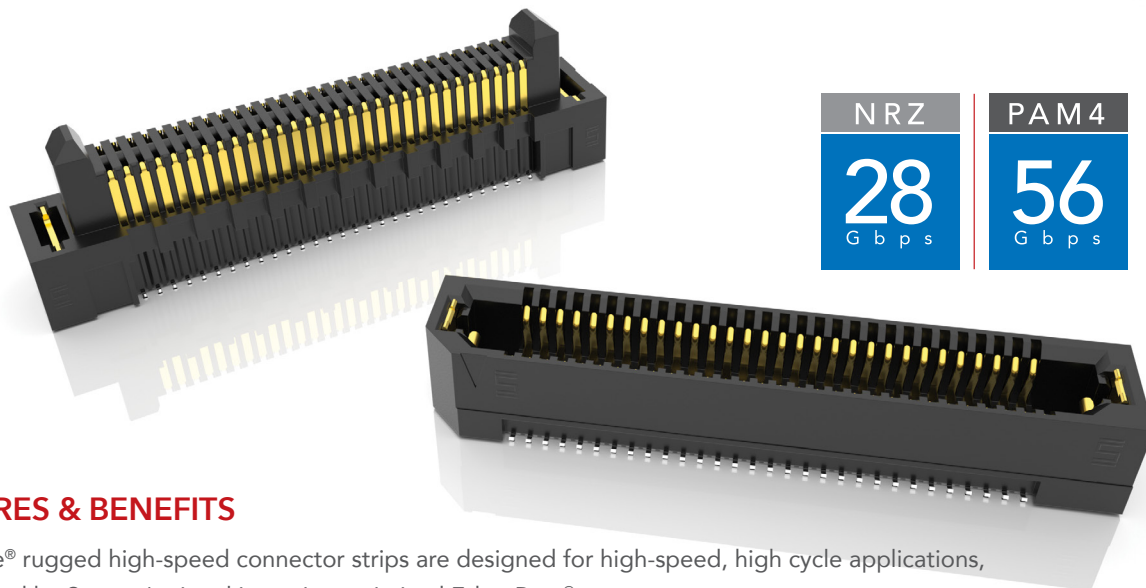


# RUGGED HIGH-SPEED STRIPS



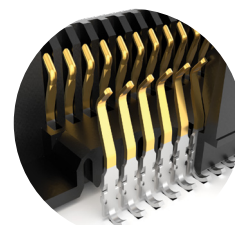
| NRZ        | PAM 4      |
|------------|------------|
| 28<br>Gbps | 56<br>Gbps |

## FEATURES & BENEFITS

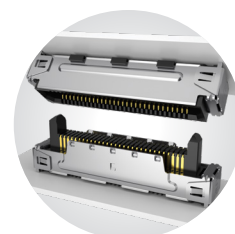
Edge Rate® rugged high-speed connector strips are designed for high-speed, high cycle applications, and enabled by Samtec's signal integrity-optimized Edge Rate® contact system.

- 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)



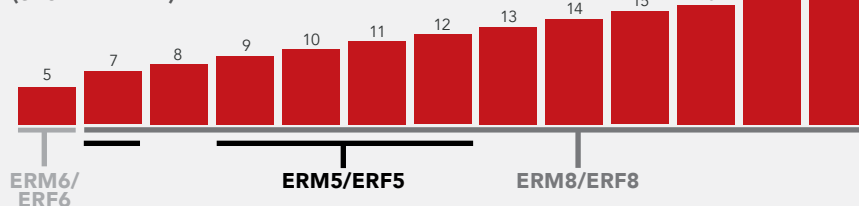
Signal integrity-optimized Edge Rate® contact system reduces broadside coupling



Rugged 360° shielding reduces EMI

## EDGE RATE® STACK HEIGHT FLEXIBILITY

(shown in mm)



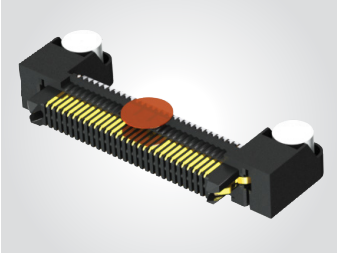
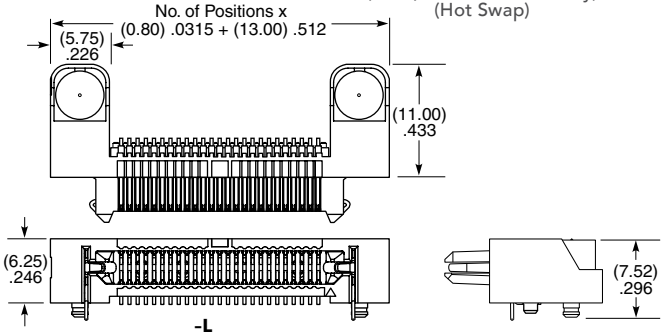
## KEY SPECIFICATIONS

| 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 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 • RIGHT-ANGLE & EDGE MOUNT HIGH-SPEED HEADERS**

| ERM8                 | POSITIONS PER ROW                                                | 01 | PLATING OPTION                                                     | D | RA | OPTIONS                                                                                                                                                                  | "X"R                                                                                                                                     |
|----------------------|------------------------------------------------------------------|----|--------------------------------------------------------------------|---|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Right-Angle Terminal | -010, -013, -020, -025, -030, -040, -049, -050, -060, -070, -075 |    | -L<br>= 10 μ" (0.25 μm)<br>Gold on contact area, Matte Tin on tail |   |    | -K<br>= (6.00 mm) .236" DIA<br>Polyimide Film<br>Pick & Place Pad<br><br>-L<br>= Latching<br><br>-DS<br>= Differential Pair<br>(-013, -025 Positions only)<br>(Hot Swap) | -TR<br>= Tape & Reel<br><br>-FR<br>= Full Reel Tape & Reel<br>(must order maximum quantity per reel; contact Samtec for quantity breaks) |

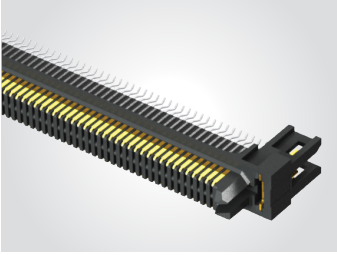
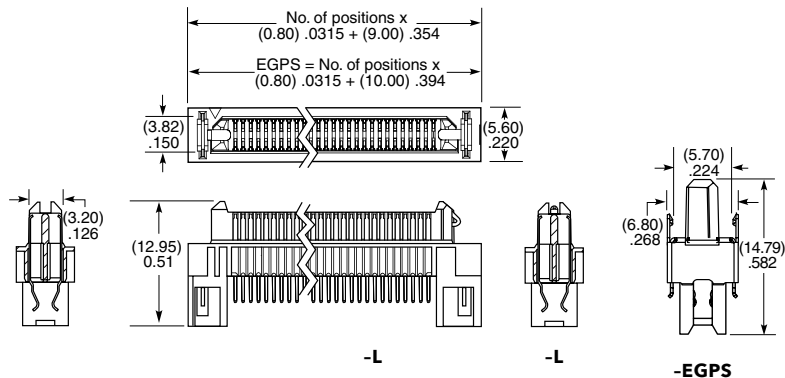
**ERM8-RA**  
**Board Mates:**  
**ERF8**  
**Cable Mates:**  
**ERCD**

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

| ERM8                | POSITIONS PER ROW                                                | 01 | PLATING OPTION                                                     | D | EM2                         | OPTIONS                                                                                                                                                                                                                                                                                                                                   | "X"R                                                                                                                                     |
|---------------------|------------------------------------------------------------------|----|--------------------------------------------------------------------|---|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Edge Mount Terminal | -010, -013, -020, -025, -030, -040, -049, -050, -060, -070, -075 |    | -L<br>= 10 μ" (0.25 μm)<br>Gold on contact area, Matte Tin on tail |   | = (1.60 mm) .062" Thick PCB | -L<br>= Latching<br>(Mates to ERF8 Lead Style -05.0 or -RA Only)<br><br>-DS<br>= Differential Pair<br>(-013 & -025 Positions only) (Hot Swap)<br><br>-EGPS<br>= Extended Guide Post Shield<br>(-010, -020, -025, -030 Positions Only)<br><br>-DSS<br>= Differential Pair + Extended Guide Post Shield<br>(-025 Positions Only) (Hot Swap) | -TR<br>= Tape & Reel<br><br>-FR<br>= Full Reel Tape & Reel<br>(must order maximum quantity per reel; contact Samtec for quantity breaks) |

**ERM8-EM**  
**Board Mates:**  
**ERF8**  
**Cable Mates:**  
**ERCD**

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

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

# Mouser Electronics

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