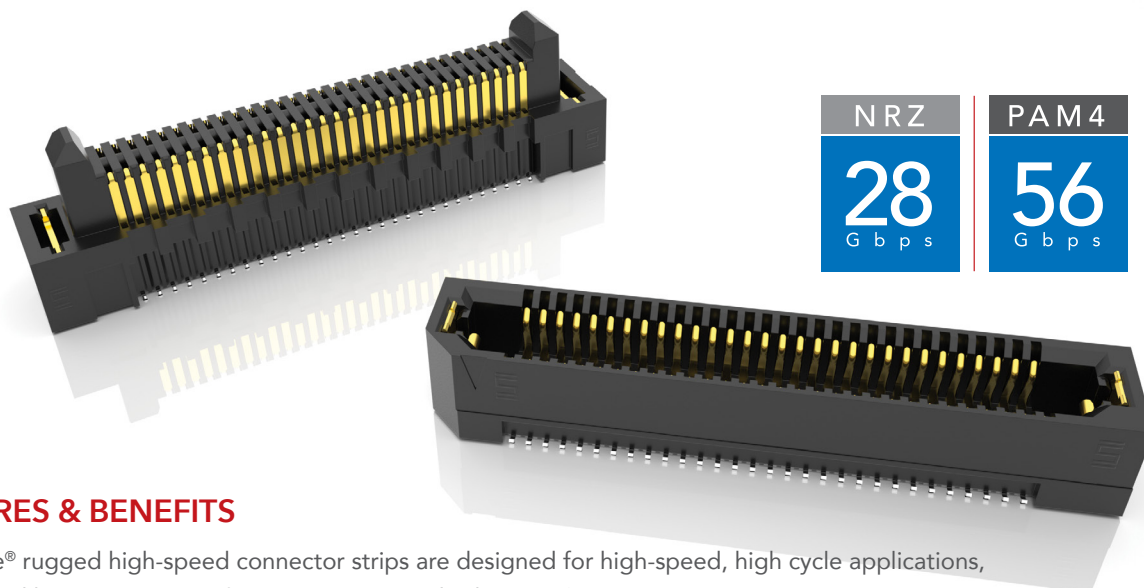


# RUGGED HIGH-SPEED STRIPS



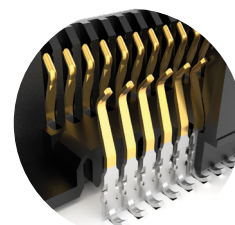
| NRZ        | PAM 4      |
|------------|------------|
| 28<br>Gbps | 56<br>Gbps |

## FEATURES & BENEFITS

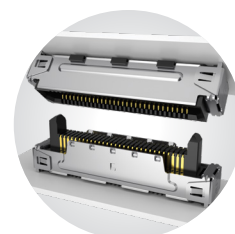
Edge Rate® rugged high-speed connector strips are designed for high-speed, high cycle applications, and enabled by Samtec's signal integrity-optimized Edge Rate® contact system.

- 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)



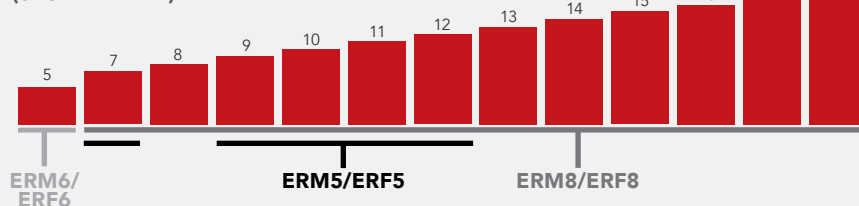
Signal integrity-optimized Edge Rate® contact system reduces broadside coupling



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 |                      |

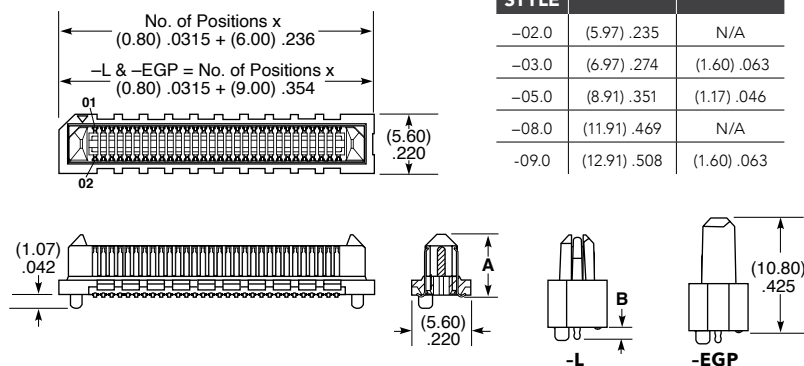
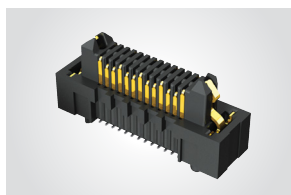
## (0.80 mm) .0315" PITCH • RUGGED HIGH-SPEED HEADERS & SOCKETS

| TYPE             | POSITIONS PER ROW                                                                                    | LEAD STYLE                                | PLATING OPTION                                                   | DV | OPTIONS                                                                                                                                                                                  | "X"R                                                                                                                                               |
|------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| ERM8<br>= Header | -005, -010, -011,<br>-013, -020, -025,<br>-030, -035, -040,<br>-049, -050, -060,<br>-070, -075, -100 | SPECIFY<br>LEAD<br>STYLE<br>FROM<br>CHART | -L<br>= 10 μ" (0.25 μm)<br>Gold on contact,<br>Matte Tin on tail |    | -DS<br>= Differential Pair<br>(ERM8 -05.0 Lead Style<br>with -010, -013, -025,<br>-049 Positions only)<br>(-P not available)                                                             | -TR<br>= Tape & Reel<br>(100 Positions N/A)                                                                                                        |
| ERF8<br>= Socket | (100 Position Only Available<br>with ERM8-09.0 & ERF8-05.0<br>Lead Styles; -L or -EGP N/A)           |                                           | -S<br>= 30 μ" (0.76 μm)<br>Gold on contact,<br>Matte Tin on tail |    | -L<br>= Latching<br>(ERM8 -03.0, -05.0 & -09.0<br>Lead Styles only & -EGP<br>Option not available)<br>(ERF8 -05.0, -07.0 & -09.0<br>Lead Style only, -L & -EGP<br>Options not available) | -FR<br>= Full Reel<br>Tape & Reel<br>(must order<br>maximum<br>quantity per reel;<br>contact Samtec for<br>quantity breaks)<br>(100 Positions N/A) |

### ERM8

Board Mates:  
ERF8

Cable Mates:  
ERCD, ERDP



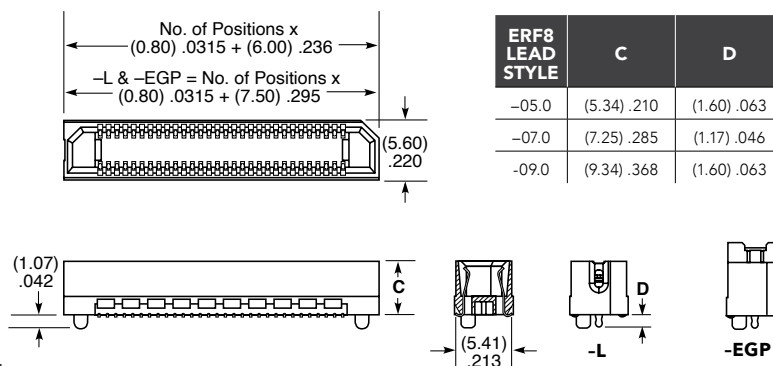
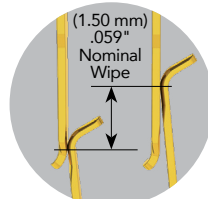
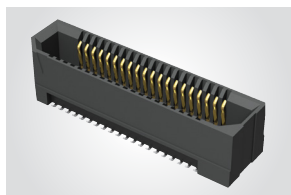
View complete specifications at: [samtec.com?ERM8](http://samtec.com?ERM8)

### ERF8

Board Mates:  
ERM8

### ERF8

Cable Mates:  
ERCD, ERDP



### 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.

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

| ERM8 LEAD STYLE | MATED HEIGHT*         |              |              |
|-----------------|-----------------------|--------------|--------------|
|                 | ERF8 LEAD STYLE -05.0 | -07.0        | -09.0        |
| -02.0           | (7.00) .276           | (9.00) .354  | (11.00) .433 |
| -03.0           | (8.00) .315           | (10.00) .394 | (12.00) .472 |
| -05.0           | (10.00) .394          | (12.00) .472 | (14.00) .551 |
| -08.0           | (13.00) .512          | (15.00) .591 | (17.00) .669 |
| -09.0           | (14.00) .551          | (16.00) .630 | (18.00) .709 |

\*Processing conditions will affect mated height.

# Mouser Electronics

Authorized Distributor

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[ERM8-050-02.0-S-DV-K-TR](#) [ERM8-075-02.0-L-DV-K-TR](#) [ERM8-040-02.0-S-DV-K-TR](#) [ERM8-070-05.0-L-DV-TR](#)  
[ERM8-049-05.0-S-DV-DS-L-TR](#) [ERM8-060-05.0-S-DV-L-TR](#) [ERM8-070-03-L-D-RA-L-TR](#) [ERM8-070-03-S-D-RA-TR](#)  
[ERM8-070-05.0-S-DV-EGP-K-TR](#) [ERM8-075-05.0-S-DV-L-K-TR](#) [ERM8-035-02.0-L-DV-K-TR](#) [ERM8-035-02.0-S-DV-K-](#)  
[TR](#) [ERM8-013-05.0-S-DV-DS-EGP-TR](#) [ERM8-049-5.0-L-DV-DS-EGP-TR](#) [ERM8-060-01-L-D-EM2-L-TR](#) [ERM8-060-](#)  
[01-S-D-RA-K-TR](#) [ERM8-070-01-S-D-RA-L-TR](#) [ERM8-075-01-S-D-RA-L-K-TR](#) [ERM8-075-05.0-S-DV-EGP-TR](#) [ERM8-](#)  
[049-05.0-S-DV-TR](#) [ERM8-049-09.0-L-DV-K-TR](#) [ERM8-050-08.0-L-DV-TR](#) [ERM8-060-03-L-D-RA-L-TR](#) [ERM8-060-03-](#)  
[L-D-RA-TR](#) [ERM8-075-03-S-D-RA-TR](#) [ERM8-075-05.0-L-DV-EGP-TR](#) [ERM8-070-02.0-S-DV-K-TR](#) [ERM8-070-03-S-](#)  
[D-RA-K-TR](#) [ERM8-075-01-S-D-EM2-L-TR](#) [ERM8-075-08.0-L-DV-K-TR](#) [ERM8-025-05.0-L-DV-DS-EGP-K-TR](#) [ERM8-](#)  
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[EGP-TR](#) [ERM8-060-01-S-D-RA-TR](#) [ERM8-070-05.0-L-DV-EGP-TR](#) [ERM8-025-02.0-L-DV-K-TR](#) [ERM8-070-01-S-D-](#)  
[EM2-TR](#) [ERM8-050-01-S-D-EM2-TR](#) [ERM8-075-05.0-L-DV-L-TR](#) [ERM8-070-05.0-L-DV-L-TR](#) [ERM8-070-05.0-S-DV-](#)  
[EGP-TR](#) [ERM8-070-01-S-D-RA-L-K-TR](#) [ERM8-070-03-S-D-RA-L-K-TR](#)