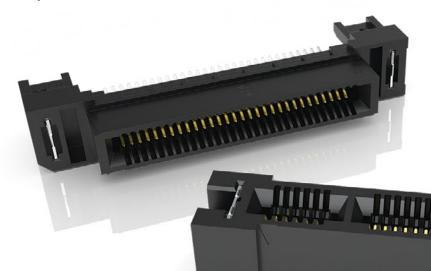
# HIGH-SPEED EDGE CARD SYSTEMS

0.60 mm, 0.80 mm and 1.00 mm PITCH



### **FEATURES & BENEFITS**

- 56 Gbps PAM4 performance
- PCI Express® 3.0, 4.0 and 5.0
- Edge Rate® contacts optimized for signal integrity performance and cycle life
- Up to 200 positions available
- Vertical, right-angle, edge mount, pass-through orientations
- Power/signal combo, press-fit tails, rugged weld tabs, locks and latches
- Mating cable assemblies available







Rugged tucked beam technology (HTEC8)



Differential pair for increased speed (HSEC8-DP)



Custom designs allow for misalignment in the X-Y axes (HSEC1)

## **KEY SPECIFICATIONS**

SERIES	PITCH	TOTAL POSITIONS	INSULATOR MATERIAL	CONTACT MATERIAL	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
HSEC6	0.60 mm	56-168	Black LCP	Copper Alloy	-55 °C to +125 °C	0.8 A (12 pins)	300 VAC	Yes
HTEC8	0.80 mm	40-200	Black LCP	Copper Alloy	-55 °C to +125 °C	3.0 A (2 pins)	215 VAC	Yes
HSEC8	0.80 mm	18-200	Black LCP	BeCu	-55 °C to +125 °C	2.8 A (2 pins)	240 VAC	Yes
HSEC1	1.00 mm	20-140	Black LCP	Phosphor Bronze	-55 °C to +125 °C	2.2 A (2 pins)	215 VAC	Yes





# (0.80 mm) .0315" PITCH • RIGHT-ANGLE & EDGE MOUNT SOCKET



25, 30, 40, 49, 50, 60

= (1.60 mm) .062" thick card

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

 $\begin{array}{c} \textbf{-S} \\ = 30~\mu^{\text{\tiny{II}}}~(0.76~\mu\text{m}) \\ \text{Gold on contact area,} \end{array}$ Matte Tin on tail

= Board Locks (09, 13, 25, 40, 49, 50, 60 only)

-L2 = ECDP Latching (09, 13, 25, 49 only) Tray Packaging

-TR = Tape & Reel

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

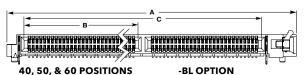
#### **HSEC8-RA**

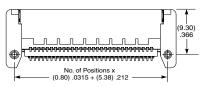
#### **Card Mates:** (1.60 mm) .062" thick card, HSC8

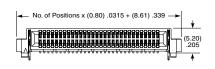
**Cable Mates: ECDP** 



POSITIONS PER ROW	A	В	с
40	(43.80) 1.724	(18.90) .744	(36.60) 1.441
50	(51.80) 2.039	(22.90) .902	(44.60) 1.756
60	(59.80) 2.354	(26.90) 1.059	(52.60) 2.071
40-BL	(51.30) 2.020	(18.90) .744	(36.60) 1.441
50-BL	(59.30) 2.335	(22.90) .902	(44.60) 1.756
60-BL	(67.30) 2.650	(26.90) 1.059	(52.60) 2.071









10, 20 & 30 POSITIONS

View complete specifications at: samtec.com?HSEC8-RA



Gold on contact area, Matte Tin on tail = 30 µ" (0.76 µm)

-EM2 =(1.60 mm) .062" thick PCB

# **HSEC8-EM**

#### **Card Mates:** (1.60 mm) .062" thick card, HSC8

**Cable Mates: ECDP** 



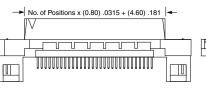
50, 60

No. of Positions x (0.80) .0315 + (18.40) .724 No. of Positions x (0.80) .0315 + (7.80) .307
A B B B B B B B B B B B B B B B B B B B
40, 50 & 60 POSITIONS

Gold on contact area, Matte Tin on tail

No. of Positions x (0.80) .0315 + (15.20) .598 →
(7.00) 276
10, 20 & 30 POSITIONS

POSITIONS PER ROW	A	В
40	(18.90) .744	(36.60) 1.441
50	(22.90) .902	(44.60) 1.756
60	(26.90) 1.059	(52.60) 2.071





#### Note:

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

View complete specifications at: samtec.com?HSEC8-EM

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