

# MULTI-BEAM CARD EDGE CONNECTORS

TE Connectivity's (TE) next generation MULTI-BEAM card edge connectors deliver the best overall power and signal density to address server market requirements for performance, profile and cost. MULTI-BEAM card edge connectors are also applicable in global data communication applications to decrease costs.

These products are the next generation card edge connectors over the current SEC-II power card edge products and deliver superior current and signal density with a unique design.

The scalable and modular features also support greater flexibility in configuration and PCB design.

## KEY BENEFITS

- High density
- Better connectivity tolerance
- Modular design
- Better performance

## APPLICATIONS

- Data center
- Telecommunications
- Industrial automation devices
- Power systems

# MULTI-BEAM Card Edge Connectors

## PRODUCT FEATURES & BENEFITS

### High Density

- Highest signal density in the market with 60% signal space savings
- 30% power density improvement over legacy products
- Smaller pitch: signal pitch 1.00mm, power pitch 7.26mm
- Greater power contact, max. 43A

### Better Connectivity Tolerance

- Better gatherability for blind-mate applications: +/-2.0mm (X), +/-1.54mm (Y)
- More clearance between PCB pads for signal contact to prevent solder bridging, and 1.3mm larger pads for easier alignment
- Support two PCB thickness: 1.57mm and 2.36mm

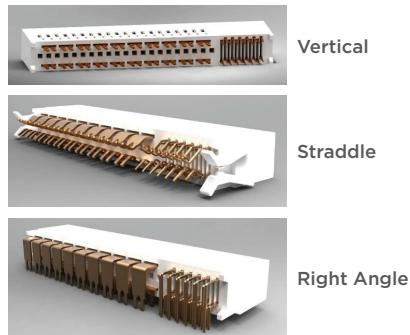
### Modular Design

- Common power and signal contact module
- Flexible configuration with different contact quantities and positions
- Better scalability (AC & DC, low power & high power)

### Better Performance

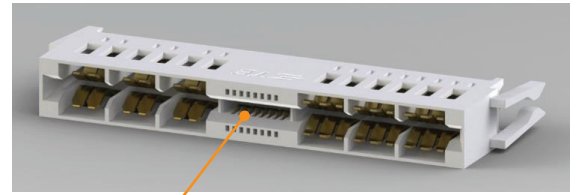
- Excellent mechanical and electrical performance
- Easy mating/un-mating with proper retention force
- Low level contact resistance

## PRODUCT CONFIGURATIONS

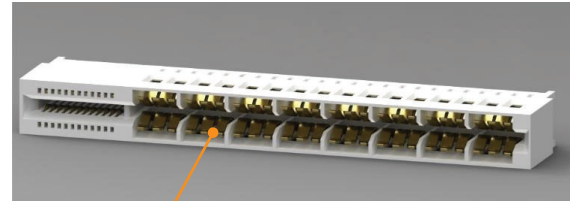


## ORDERING INFORMATION

Part Number	Configuration	Positions	
		Power	Signal
2212112-1	Vertical	2x4	2x4
2214913-1	Vertical	2x13	2x24
2214913-4	Vertical	2x6	2x12
2214913-5	Vertical	2x4	2x4
2204072-1	Vertical	2x3	2x5
2214934-3	Vertical	2x2	2x4
2212078-1	Straddle	2x13	2x24
1-2212115-4	Right Angle	2x1	2x4
2212115-1	Right Angle	2x13	2x24
2214913-7	Vertical	2x2	2x6
1-2214934-4	Vertical	2x2	2x6



Signal - up to 60% space savings



Power - up to 30% space savings

## Specifications

- Current rating:
  - Power contact: up to 43A
  - Signal contact: up to 2A
- Voltage rating:
  - Power: 100V max.
  - Signal: 60V max.
- Durability: 200 mating cycles
- Mechanical shock: EIA-364-27
- Vibration: EIA-364-28
- Operating temperature: -55°C to 105°C
- Low mating force
  - 6N max. per power contact
  - 1.5N max. per signal contact
- PCB thickness: 1.57mm and 2.36mm
- Material: high conductivity copper alloy and high temperature resin with RoHS compliance
- Product spec: 108-32043
- Application spec: 114-128016

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