Power Solutions

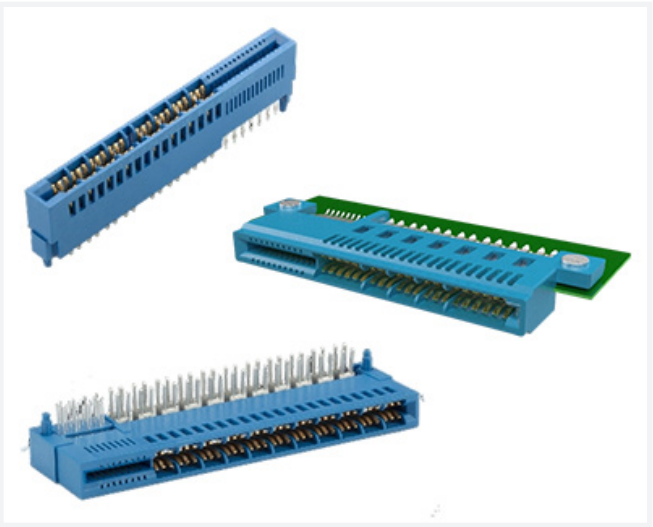
Amphenol

# eHPCE® Enhanced High Power Card Edge Connectors

## CLASSIC HPCE® WITH ENHANCED PERFORMANCE

eHPCE® connectors offer a 15% increase in power density with the same footprint as classic HPCE®. The all-new power contact design offers lower contact resistance and higher current carrying capacity compared to classic HPCE® connectors. eHPCE® connectors are designed to extend the life of power supplies using card edge output power connectors.

- Same mating footprint as classic HPCE®
- Enhanced housing design
- GCS® plated contacts deliver lower resistance than gold
- Maximum continuous operating temperature increased to +140 °C
- Low-halogen housing material
- Vertical, right-angle, and straddle mount configurations available



### TARGET MARKETS

| FEATURES | BENEFITS |
|---|---|
| GCS® plating technology | Provides lower resistance |
| Current rating up to 48 A per contact at 30 °C temperature rise in still air | Higher performance with same mating footprint as classic HPCE® |
| 20% thicker contact material<br>50% more points of contact | Enables 15% increase in power density |
| Enhanced housing design | Better mechanical alignment and increased robustness |
| Low-halogen housing | Meets JEDEC JS709 Electronic Industry Standard |
| Vertical, right angle and straddle mount configurations available | Suitable for a wide variety of application requirements |
| High-temperature thermoplastic housing | Wide operating temperature from -55 °C to +140 °C |



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# TECHNICAL INFORMATION

## MATERIAL

- Housing: High Temperature Thermoplastic, UL 94 V-0, Blue
- Terminal: High Conductivity Copper Alloy
- Contact Area
  - Power: GCS® plating over Nickel
  - Signal: GXT® plating over Nickel

## MECHANICAL PERFORMANCE

- Contact Wipe Distance: 4.8 mm (power), 3.5 mm (signal)
- Durability: 200 mating cycles
- Mating Force: 10 N per Ultra-power contact, 5 N per Mid-power contact

## ELECTRICAL PERFORMANCE

- Current Rating: Up to 48 A per contact (30 °C temperature rise in still air)
- Operating Voltage: 250 V (power), 30 V (signal)
- Dielectric Withstanding Voltage: 1000 V

## ENVIRONMENTAL

- Operating Temperature Range: -55 °C to +140 °C
- RoHS Information: this product is compatible according to the European Union Directive 2011/65/EU

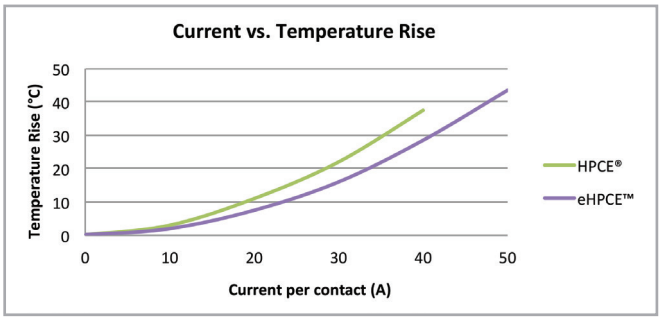
## SPECIFICATIONS

- Product Specification: GS-12-1362
- Application Specification: GS-20-0469

## PACKAGING

- Trays

## TEMPERATURE RISE CURVE




## TARGET MARKETS/APPLICATIONS

Datacom/Networking Equipment
Switches
Telecom

Industrial PCs
Industrial Controls & Instruments

Medical

# PART NUMBERS

| Description | Part Numbers |
|---|---|
| eHPCE® right-angle, 22MP16S | 10139371-2216GLF |
| eHPCE® vertical, press-fit, 16MP28S | 10141274-001LF |
| eHPCE® vertical, press-fit, 6MP12S | 10141274-002LF |

Find part number details using the search box on www.amphenol-cs.com

**EXPLORE THE PRODUCT DETAILS ONLINE**
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