# ENERGY EDGE®/RAZOR®

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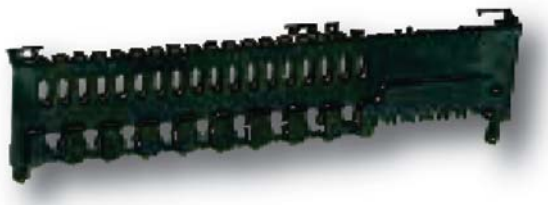
## Overview:

Energy Edge® and Energy Razor® are the next generation power connectors for power distribution. Their power and signal contacts are incorporated into one single connector. While these connectors are suitable for power distribution board-to-board connections in server, storage and telecommunication equipments, Energy Edge connectors are specialized in power distribution boards, and Energy Razor connectors are extensively used in AC/DC power supplies.

AMPHENOL CANADA CORP
RoHS COMPLIANT
2011/65/EU RECAST



## Edge® Features:

- UL compatible
- Space saving, low-profile design
- Venting hole design for excellent thermal performance
- Cost saving, one piece assembly
- Capability for expansion to 56 power pins & 24 signal pins

## Razor® Features:

- UL compatible
- Multiple contact design for contact reliability
- Blind mating capability with guiding pin design
- Venting hole for excellent thermal performance
- Capability for expansion to 16 power pins & 24 signal pins

## Applications:

- Networking
- Telecom
- Servers
- Storage
- Wireless
- Test & Measure
- Industrial




To learn more about Energy Edge®/Razor® connectors:
web: amphenolcanada.com email: sales@amphenolcanada.com

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# ENERGY EDGE®/RAZOR®

## Technical Characteristics:

| Mechanical | | |
|---|---|---|
| | **Energy EDGE®** | **Energy RAZOR®** |
| **Mating Force** | Single power pin: 0.98N max.<br>Single signal pin: 0.22N max. | Single power pin: R/A receptacle to R/A plug 460g max.<br>Single power pin: Vert. receptacle to R/A &/ Vert. plug 760g max.<br>Single signal pin: 75g max. |
| **Unmating Force** | Single power pin: 0.36N min.<br>Single signal pin: 0.06N min. | Single power pin: R/A receptacle to R/A plug 295g min.<br>Single power pin: Vert. receptacle to R/A. &/ Vert. plug 340g min.<br>Single signal pin: 30g min. |
| **Contact Retention Force** | Single power pin: 32N min.<br>Single signal pin: 19N min. | 1360g min. |
| **Durability** | 200 cycles | 200 cycles |
| **Electrical** | | |
| | **Energy EDGE®** | **Energy RAZOR®** |
| **Current Rating** | Power Contact: 9A<br>Signal Contact: 1.5A | Power Contact: 60A<br>Signal Contact: 2.5A |
| **Contact Resistance** | Initial: 25 mΩ max.<br>ΔR=10 mΩ max. | Initial: 20 mΩ max. Initial: 0.27Ω max.<br>ΔR=10 mΩ max. ΔR=0.3 mΩ max. |
| **DWV** | Power Contact: 1800V DC<br>Signal Contact: 500V DC | Power Contact: 250 or 600V<br>Signal Contact: 250V |

## Ordering Information:

| Part Number Base | Part Number | Series | Type | Male/Female | Plating | Contact Arrangement |
|---|---|---|---|---|---|---|
| GPGE | GPGE43282013HR | Energy Edge | Straddle | Female | 15µ" | 28P20S |
| | GPGE44282013HR | Energy Edge | Straddle | Female | 30µ" | 28P20S |
| GPCE | GPCE44362411HR | Energy Edge | Straddle | Female | 30µ" | 36P24S |
| | GPCEH33624108HR | Energy Edge | Right Angle Sink | Female | 15µ" | 36P24S |
| | GPCE34362411HR | Energy Edge | Vertical Type Press Fit | Female | 30µ" | 36P24S |
| | GPCE244016112HR | Energy Edge | Vertical Type Dip | Female | 30µ" | 40P16S |
| | GPCE24362411HR | Energy Edge | Vertical Type Dip | Female | 30µ" | 36P24S |
| | GPCEG43224113HR | Energy Edge | Right Angle | Female | 30µ" | 32P24S |
| | GPCE44162013HR | Energy Edge | Straddle | Female | 30µ" | 16P20S |
| | GPCE54362413HR | Energy Edge | Straddle | Female | 30µ" | 36P24S |
| | GPCE3432121HR | Energy Edge | Vertical Type Press Fit | Female | 30µ" | 32P12S |
| G20 | G20F220010002HR | Energy Razor | Right Angle | Female | 30µ" | 6P24S |
| | G20M256010002HR | Energy Razor | Right Angle | Male | 30µ" | 6P24S |
| | G20M21901A1020HR | Energy Razor | Right Angle | Male | 30µ" | 4P12S |
| | G20F243610000HR | Energy Razor | Right Angle | Female | 30µ" | 4P12S |
| G20S | G20SF240825A33AHR | Energy Razor Super | Right Angle | Female | 30µ" | 8DC-25S-3AC |
| | G20SM240825A33AHR | Energy Razor Super | Right Angle | Male | 30µ" | 8DC-25S-3AC |
| | G20SM240315033AHR | Energy Razor Super | Right Angle | Male | 30µ" | 3DC-15S-3DC |
| | G20SF2403150330HR | Energy Razor Super | Right Angle | Female | 30µ" | 3DC-15S-3DC |




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web: amphenolcanada.com email: sales@amphenolcanada.com

# Mouser Electronics

Authorized Distributor

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Amphenol:

GPCE54362413HR GPGE43282013HR GPGE44282013HR GPCEH33624108HR GPCE244016112HR GPCEG43224113HR GPCE3432121HR G20F220010002HR G20M256010002HR G20M21901A1020HR G20F243610000HR G20SF240825A33AHR G20SM240825A33AHR G20SM240315033AHR G20SF2403150330HR