Mini Cool Edge 0.60mm Connectors

**MEETS SFF–TA–1002, GEN Z, EDSFF AND OCP NIC 3.0 SPECIFICATIONS**

Mini Cool Edge is a 0.60mm high density, high speed card edge connector for new generation small form factor system. This fine pitch solution offers multiple BTB applications like right angle, mezzanine and coplanar and support cable interconnect options.

Mini Cool Edge 0.60mm meets SFF–TA–1002, Gen Z, EDSFF and OCP NIC 3.0 specifications.

- Common applications include Solid State Drive, Network Interface Card, Add–In Card.
- Vertical, right angle, straddle mount and orthogonal options are available
- High Speed from 32GT/s to 56GT/s, and up to 112GT/s PAM4

**TARGET MARKETS**

- Common applications include Solid State Drive, Network Interface Card, Add–In Card.
- Vertical, right angle, straddle mount and orthogonal options are available
- High Speed from 32GT/s to 56GT/s, and up to 112GT/s PAM4

**FEATURES**

- Signal pin pitch at 0.60mm with current rating of 1.1A, up to 12 pins for power application
- Signal pins options from 56, 84, 140, 168, 280
- Customization of pin count upon request
- Small form factor
- Discrete pin design
- Supports 1.6mm thick mating board

**BENEFITS**

- Supports small power BTB applications
- Provides power for module card
- Supports different board–to–board, module applications like FPGA, SSD, NIC
- Serves as a space–saving connector
- Supports single–ended, high speed differential pairs up to 32G NRZ, 56G PAM4, 112G PAM4
- For most standard BTB applications

www.amphenol-icc.com
Mini Cool Edge 0.60mm Connectors

**TECHNICAL INFORMATION**

**MATERIAL**
- Contact Base Metal: Copper Alloy
- Contact Area Finish: Gold over Nickel
- Solder Area Finish: Tin over Nickel
- Housing: High temperature thermoplastic (UL 94V-0)

**ELECTRICAL PERFORMANCE**
- Contact Resistance: 30mΩ max. initial, 15mΩ max. change after test
- Power Supply: 72W max.
- Dielectric Withstanding Voltage: 300VDC

**MECHANICAL PERFORMANCE**
- Durability: 200 mating cycles
- Mating Force: 0.75N/pin max.
- Unmating Force: 0.12N/pin min.

**ENVIRONMENTAL**
- Humidity: 500 hours, 25±3˚C at 80% ~95% RH. Per EIA 364–31B Method III
- Temperature Life: 105±2˚C for 168 hours. Per EIA 364–17
- Thermal Shock: 5 cycles between -55˚C to +85˚C. Per EIA 364–32
- Mixed Flow Gas: 10 days to simulate 7 years field life. EIA364–65 class IIa

**TARGET MARKETS/APPLICATIONS**
- Baseband
- Commercial Systems
- Networking
- Radio Units
- High-end Computing System
- Server and Storage Systems

**PACKAGING**
- Orthogonal: Tube
- Straddle mount: Tray

**TOOLING INFORMATION**
- Special pin count option available upon request

**PART NUMBERS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Description</th>
<th>Part Numbers</th>
<th>Gen Z</th>
<th>EDSFF</th>
<th>OCP NIC 3.0</th>
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