DATASHEET

Mini Cool Edge (MCIO) Connectors and Cable Assemblies›



The Mini Cool Edge (MCIO) product family delivers 4x, 8x, 16x and 20x options with high-speed 16, 32 and up to 64 Gbps data rates. MCIO cable assemblies meet PCIe standards in extremely flexible configurations.

ADVANTAGES AND FEATURES

Delivers improved flexibility in system design
with straight, right-angle and side-exit options for multiple plug types

Offers extendable and customizable DS pairs for high-speed channel applications
by using sideband with differential signal (DS) pairs

Prevents damage to the pins
because of anti-slant, anti-reverse and pull-tab features with contact protection and enhanced mechanical design

Circuits	38 to 148
Pitch	0.60mm
Data Rates	16 Gbps, up to 64 Gbps

Supports high-speed data transmission that meets PCIe industry standards
with the ability to deliver up to 64 Gbps

Offers a wide range of pinout options, including 4, 8, 16 and 20 lanes
because of pinout flexibility

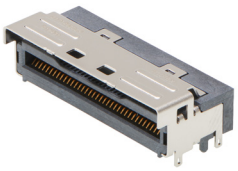
Provides flexibility to pair with different wire gauge options, including 29, 30 and 32 AWG
as a result of loose pair and ribbon cable features







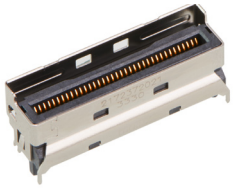














DATASHEET

Mini Cool Edge (MCIO) Connectors and Cable Assemblies›

MARKETS AND APPLICATIONS

Telecommunications

Routers
Servers
Switches
Edge computing

Power for Data Center

Data centers
Storage racks
Storage controllers
RAIDS (Redundant Array of Independent Disks Storage)
JBODS (Just a Bunch of Disks Storage)
HBAS (Host Bus Adapter Services)
Enterprise storage systems
Servers and high-performance computing



Edge Computing



Data Centers

SPECIFICATIONS

Reference Information

Packaging: Carrier tape
Designed in: Millimeters
RoHS: Yes
Halogen Free: Yes

Electrical

Voltage (max.): 30.0V AC/contact
Current (max.): 1.1A/contact
Connector Contact Resistance: 20 milliohms max.
Dielectric Withstanding Voltage: 300V DC
Insulation Resistance (min.): 1,000 Megohms

Mechanical

Mating Force (max.): 1.1 N/contact+10N
Unmating Force (min.): 0.1 N/contact
Durability (min.): 200 mating cycles

Physical

Housing: Nylon
Contact: Copper Alloy
Contact Area: Gold over Nickel
Solder Tail Area: Tin over Nickel
Connector Ground Bar: Stainless Steel
PCB Thickness: 1.57mm
Operating Temperatures: -40 to +85°C

www.molex.com

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners
Order No. 987652-7091 USA/0k/GF/2024.03
©2024 Molex