# **zCD Interconnect System and Copper Cable Assemblies**



Offering the highest port and bandwidth density of any pluggable form factor available, the zCD Interconnect System delivers 400 Gbps per port with superior signal integrity performance

### **Features and Benefits**

#### Data rates scalable up to 400 Gbps (25 Gbps over 16 lanes)

Supports high-bandwidth (fat pipe) next-generation applications. Enables 4.4 Tbps with 11 modules on a line card. Supports nextgeneration 400 GbE



Enables network and data center OEMs to meet everincreasing bandwidth needs

### Elastomeric gasket

Provides superior EMI containment and suppression

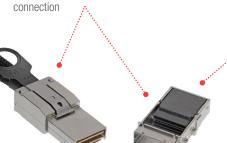
Module EMI Gasket

Latch-to-pull release

Easy to extract cable from

#### 0.75mm pitch, 16 lanes of 25 Gbps per port

Provides compact footprint. Delivers high-density



### Three different diecast cage styles with mechanical keying available

Meets varying design needs. Mechanical keying prevents mismating

Diecast Body

Unique footprint optimizes signal integrity performance

Simplifies routing task. Optimizes board edge density -

while also supporting straight-back routing

no need to side route to access inner PTH rows

Screw Hold Down Board Retention Press-fit connector Ensures a robust and simple board termination

> Designed to accept a broad range of customer-specified thermal modules Provides excellent thermal management

#### Cable assemblies available with 30 AWG discrete twinax cable Allows for cable flexibility. Reduces cable bundle size



EEPROM (electrically erasable programmable read-only memory) compatible Allows customer to enter customized information

Cables consist of Expando (expandable braided sleeving) Keeps cables dressed for system routing bundle size

# Footprint includes tails arranged in straight rows with 2.25mm pitch

Allows routing for signals from rear only. Actual port density along board is fully optimized no side routing.

# Applications

Telecommunications/Networking

connector

Core switches Routers Data Centers Enterprise computing Top-of-rack switches



Switches



2.25mm

Data Center

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# molex

### **Specifications**

### REFERENCE INFORMATION

Packaging: Stackable Trays UL File No.: TBD CSA File No.: TBD Mates With: zCD Connector, Style 1 Designed In: Millimeters RoHS: Yes Halogen Free: Yes

#### ELECTRICAL

Voltage (max.): 30V (RMS)/DC Current (max.): 1.0A Contact Resistance: 10 milliohms Dielectric Withstanding Voltage: 300V DC

### MECHANICAL

Compliant Pin Insertion into PCB: 17.8N per Pin Compliant Pin Retention to PCB: 3.56N per Pin Mating Force: 150N Unmating Force: 170N Durability (min.): 250 Cycles

### PHYSICAL

Wafer Housing: High-Temperature Thermoplastic, Glass Filled UL 94V-0 Diecast Housing: Nickel-Plated Diecast Alloy Cover: Stainless Steel Alloy EMI Gasket: Conductive Polymer EMI Fingers: Nickel-Plated Copper Alloy Contact Plating: Contact Area — Gold Compliant Tail Area – Tin Underplating — Nickel PCB Thickness: 1.35mm Operating Temperature: -40 to +85°C

### **Ordering Information**

Series No.	Component	Product Attribute
<u>173359</u>	90-Ohm Connector	With Gasket
		Without Gasket

Custom Product	Description	
Contact Molex	zCD Style 1 Cable Assemblies	

### www.molex.com/link/zcd.html

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