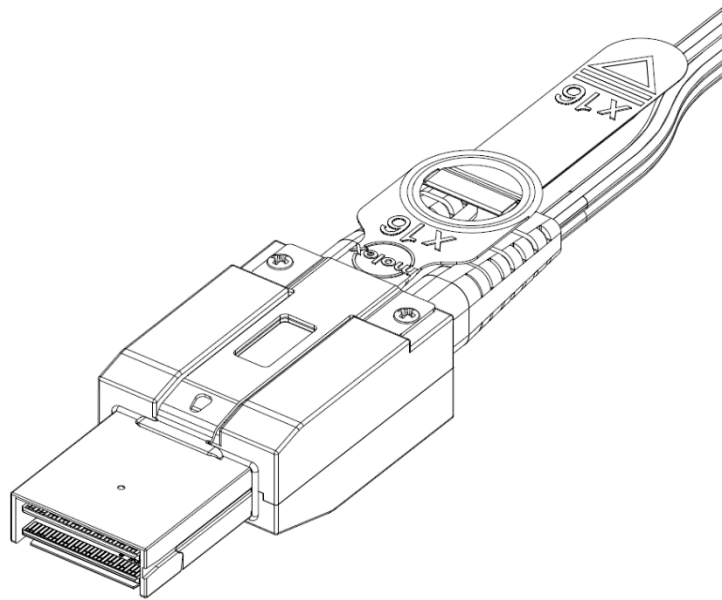
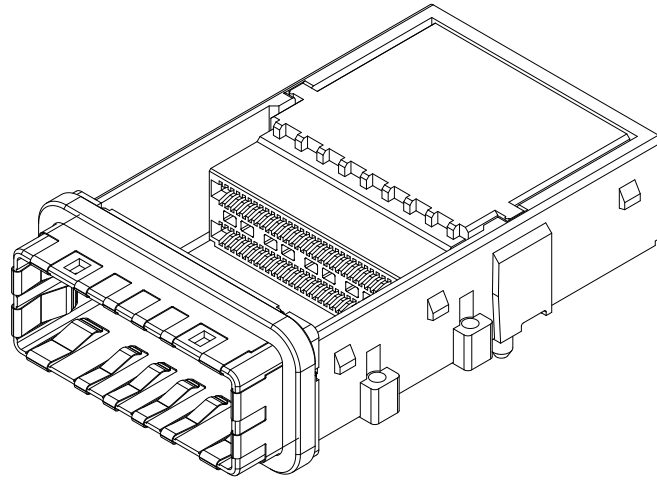




# PRODUCT SPECIFICATION

## zCD 16X 0.75 mm PITCH I/O CONNECTOR



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# PRODUCT SPECIFICATION

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# PRODUCT SPECIFICATION

## 1.0 SCOPE

This Product Specification covers the 0.75 mm centerline (pitch) zCD 16X connector series and cable assemblies.

## 2.0 PRODUCT DESCRIPTION

### 2.1 PRODUCT NAME AND SERIES NUMBER(S)

Product Name:	zCD 16X Connector Family
Connector Series:	173359 – zCD 16X
Plug & Cable Series:	201069 – 16X25G zCD AOC
	201069 - 16X25G zCD PASSIVE

### 2.2 DIMENSION, MATERIALS, PLATING AND MARKINGS

See the appropriate Sales Drawing for information on dimensions, materials, plating, marking, and footprint patterns.

### 2.3 SAFETY AGENCY APPROVALS

UL file: E29179

### 2.4 PIN ASSIGNMENTS

Pin assignment may vary depending on the cable assembly configuration. Different configurations will have different part numbers within the series. Reference the appropriate cable sales drawing of the specific part number for the correct pin assignment.

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## 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

### 3.1 MOLEX DOCUMENTS

AS-173359-0002	Application Specification zCD 16X Connector
AS-173359-0001	SI Routing Guidelines for zCD Connectors
PK-170834-0001	Packaging Specification
PS-45499-002	Cosmetic Specification (receptacle)
EE-TBD	Electrical Model and High Speed Characterization
TS-TBD	Electrical High Speed Test Summary

### 3.2 INDUSTRY DOCUMENTS

EIA 364 Series	Electrical Connector Test Procedures Including Environmental Classifications with Test Procedures
EIA 364-1000	Environmental Test Methodology for Assessing the Performance of Connectors and Sockets Used in Business Office Applications

## 4.0 QUALIFICATION

Laboratory condition and sample selection are in accordance with EIA 364

## 5.0 RATINGS

### 5.1 VOLTAGE

30 Volts AC (RMS)/DC Max.

### 5.2 CURRENT

1.0 Amps Max.

### 5.3 TEMPERATURE

Operating:	-40°C to +85°C
Non-operating:	-55°C to +85°C

### 5.4 DURABILITY

0.76 µm Au – 250 cycles, 10 year Life (14 day FMG)

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## 6.0 PERFORMANCE (MECHANICAL & ENVIRONMENTAL)

### 6.1 TEST GROUP 1

ITEM	TEST	TEST PROCEDURE	CONDITION	REQUIREMENT	ACTUAL
1	Low Level Contact Resistance	EIA 364-23; apply a maximum voltage of <b>20</b> mV and a current of <b>100</b> mA.	Mated	baseline	----
2	Durability (precondition)	EIA-364-09; perform plug & unplug cycles: 50.		No evidence of physical damage	<b>PASS</b> <b>N=278</b>
3	Temperature Life	EIA-364-17, method A, Test Condition 3 at 105°±2°C 120 hours	Mated	Conditioning Exposure	----
4	Low Level Contact Resistance	EIA 364-23; apply a maximum voltage of <b>20</b> mV and a current of <b>100</b> mA.	Mated	<10 mΩ Δ max	<b>PASS</b> <b>N=278</b>
5	Reseating	Manually unplug & plug the connector, 3 cycles		No evidence of physical damage	<b>PASS</b> <b>N=278</b>
6	Low Level Contact Resistance	EIA 364-23; apply a maximum voltage of <b>20</b> mV and a current of <b>100</b> mA.	Mated	<10 mΩ Δ max	<b>PASS</b> <b>N=278</b>

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# PRODUCT SPECIFICATION

## 6.2 TEST GROUP 2

ITEM	TEST	TEST PROCEDURE	CONDITION	REQUIREMENT	ACTUAL
1	Low Level Contact Resistance	EIA 364-23; apply a maximum voltage of <b>20</b> mV and a current of <b>100</b> mA.	Mated	baseline	----
2	Durability (precondition)	EIA-364-09; perform plug & unplug cycles: 50.		No evidence of physical damage	TBD
3	Thermal Shock	EIA 364-32, Method A, test condition I (10 cycles)	Mated	Conditioning Exposure	TBD
4	Low Level Contact Resistance	EIA 364-23; apply a maximum voltage of <b>20</b> mV and a current of <b>100</b> mA.	Mated	<10 mΩ Δ max	TBD
5	Cyclic Temperature & Humidity	EIA-364-31 Cycle connectors between <b>25° ± 3°C</b> at 80% RH and <b>65 °± 3 °C</b> at 50% RH <b>24</b> cycles. Ramp times should be 0.5 hour and dwell should be 1.0 hour.	Mated	Conditioning Exposure	TBD
6	Low Level Contact Resistance	EIA 364-23; apply a maximum voltage of <b>20</b> mV and a current of <b>100</b> mA.	Mated	<10 mΩ Δ max	TBD
7	Reseating	Manually unplug & plug the connector, 3 cycles		No evidence of physical damage	TBD
8	Low Level Contact Resistance	EIA 364-23; apply a maximum voltage of <b>20</b> mV and a current of <b>100</b> mA.	Mated	<10 mΩ Δ max	TBD

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# PRODUCT SPECIFICATION

## 6.3 TEST GROUP 3

ITEM	TEST	TEST PROCEDURE	CONDITION	REQUIREMENT	ACTUAL
1	<b>Low Level Contact Resistance</b>	EIA-364-23; apply a maximum voltage of <b>20</b> mV and a current of <b>100</b> mA.	Mated	<b>baseline</b>	----
2	<b>Durability (precondition)</b>	EIA-364-09; perform plug & unplug cycles: 50.		No evidence of physical damage	<b>PASS</b>
3	<b>Temperature Life (precondition)</b>	EIA-364-17, method A, Test Condition 3 at 105°±2°C 72 hours	Mated	Conditioning Exposure	Conditioning Exposure
4	<b>Low Level Contact Resistance</b>	EIA-364-23; apply a maximum voltage of <b>20</b> mV and a current of <b>100</b> mA.	Mated	<b>&lt;10 mΩ Δ max</b>	<b>PASS Max = 7.5</b>
5	<b>Mechanical Vibration</b>	EIA-364-28 test condition VII test condition letter D 15 minutes in each of 3 mutually perpendicular directions. Both mating halves rigidly fixed to not contribute to relative motion of one contact against another.	Mated	Discontinuity < 1 μsec No evidence of physical damage	<b>PASS</b>
6	<b>Low Level Contact Resistance</b>	EIA-364-23; apply a maximum voltage of <b>20</b> mV and a current of <b>100</b> mA.	Mated	<b>&lt;10 mΩ Δ max</b>	<b>PASS Max = 8.7</b>

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## 6.4 TEST GROUP 4

ITEM	TEST	TEST PROCEDURE	CONDITION	REQUIREMENT	ACTUAL
1	Low Level Contact Resistance	EIA-364-23; apply a maximum voltage of 20 mV and a current of 100 mA.	Mated	baseline	----
2	Durability (precondition)	EIA-364-09; perform plug & unplug cycles 50 times.		No evidence of physical damage	TBD
3	Temperature Life (precondition)	EIA-364-17, method A, Test Condition 3 at 105°±2°C for 72 hours.	Mated	Conditioning Exposure	TBD
4	Low Level Contact Resistance	EIA-364-23; apply a maximum voltage of 20 mV and a current of 100 mA.	Mated	<10 mΩ Δ max from initial	TBD
5	Mixed Flowing Gas	EIA-364-65 class IIA, Option 1A & 1B test condition VII for 14 days.	See Note	Conditioning Exposure	TBD
6	Low Level Contact Resistance	EIA-364-23; apply a maximum voltage of 20 mV and a current of 100 mA.	Mated	<10 mΩ Δ max from initial	TBD
7	Thermal Disturbance	Cycle connectors 10 times between 15° ± 3°C at 80% RH and 85 °± 3 °C at 50% RH. Ramps should be a minimum of 2°C per minute and dwell times should insure that the contacts reach the temperature extremes for a minimum of 5 minutes.	Mated	Conditioning Exposure	TBD
8	Low Level Contact Resistance	EIA-364-23; apply a maximum voltage of 20 mV and a current of 100 mA.	Mated	<10 mΩ Δ max from initial	TBD
9	Reseating	Manually unplug & plug the connector, 3 cycles		No evidence of physical damage	TBD
10	Low Level Contact Resistance	EIA-364-23; apply a maximum voltage of 20 mV and a current of 100 mA.	Mated	<10 mΩ Δ max from initial	TBD

Note:

1. Expose ½ of the specimens unmated for 2/3 of the test duration. Mate the specimen to the same one used during preconditioning temperature life. Expose for the duration of the test.
2. Characterize porosity & plating thickness before test sequence.

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## 6.5 TEST GROUP 7

ITEM	TEST	TEST PROCEDURE	CONDITION	REQUIREMENT	ACTUAL
1	<b>Dielectric Withstanding Voltage</b>	EIA-364-20; apply a voltage of <b>300</b> VDC for <b>1</b> minute between adjacent terminals and between adjacent terminals and ground.	Mated	No disruptive discharge No leakage current in excess of 5mA	<b>PASS</b> <b>N=279</b>
2	<b>Low Level Contact Resistance</b>	EIA-364-23; apply a maximum voltage of <b>20</b> mV and a current of <b>100</b> mA.	Mated	<b>baseline</b>	----
3	<b>Durability</b>	EIA-364-09; perform plug & unplug cycles: 250		No evidence of physical damage	<b>PASS</b> <b>N=279</b>
4	<b>Low Level Contact Resistance</b>	EIA-364-23; apply a maximum voltage of <b>20</b> mV and a current of <b>100</b> mA.	Mated	<b>&lt;10 mΩ Δ max</b>	<b>PASS</b> <b>N=279</b>
5	<b>Dielectric Withstanding Voltage</b>	EIA-364-20; apply a voltage of <b>300</b> VDC for <b>1</b> minute between adjacent terminals and between adjacent terminals and ground.	Mated	No disruptive discharge No leakage current in excess of 5mA	<b>PASS</b> <b>N=279</b>

Note:

1. Separate sets of test specimens will be used to access dielectric withstanding voltage and the change in low level contact resistance.
2. Dielectric withstanding voltage testing will use different contacts than those used for low level contact resistance testing.

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## 6.6 MECHANICAL TEST GROUP 1

ITEM	TEST	TEST PROCEDURE	CONDITION	REQUIREMENT	ACTUAL
1	<b>Temperature Rise</b> (via current cycling)	Measure the temperature rise at the rated current after <b>96</b> hours. ( <b>45</b> minutes ON and <b>15</b> minutes OFF). Fixture as required.	Mated	Temperature Rise: <b>+30°C</b> maximum	<b>2.5A</b>

## 6.7 MECHANICAL TEST GROUP 2

ITEM	TEST	TEST PROCEDURE	CONDITION	REQUIREMENT	ACTUAL
1	<b>Connector Mate Forces</b> (Module only)	Mate connector at a rate of <b>25</b> mm per min.	Mate	<b>2.5 N</b> / contact pair MAX insertion force ( <b>150 N</b> total)	MIN: 30 N MAX: 43 N AVG: 35 N
2	<b>Connector Un-mate Forces</b> (Module only)	Un-mate connector at a rate of <b>25</b> mm per min.	Un-mate	<b>1.25 N</b> / contact pair MAX withdrawal force ( <b>75 N</b> total)	MIN: 15 N MAX: 20 N AVG: 18 N
3	<b>Plug Mate Forces</b>	Mate connector at a rate of <b>25</b> mm per min.	Mate	<b>2.5 N</b> / contact pair plus <b>20 N</b> MAX ( <b>170 N</b> total)	---
4	<b>De-Latch Plug</b> (Axial Load)	Mate connector and place axial load on latch pull to de-latch plug	Un-mate	<b>1.25 N</b> / contact pair plus <b>150 N</b> Max	---

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## 6.8 MECHANICAL TEST GROUP 3

ITEM	TEST	TEST PROCEDURE	CONDITION	REQUIREMENT	ACTUAL
1	Normal Force	Apply a perpendicular force.	Housing Cleared out	49 N MINIMUM normal force	71 N

## 6.9 MECHANICAL TEST GROUP 4

ITEM	TEST	TEST PROCEDURE	CONDITION	REQUIREMENT	ACTUAL
1	Latitudinal Load	Mate connector and load plug with latitudinal load until open circuit. See section 9.	Mated	75 N MIN	530 N
2	Longitudinal Load	Mate connector and load plug with longitudinal load until open circuit. See section 9.	Mated	75 N MIN	180 N
3	Cable Pullout Force (Axial Load)	Mate plug to connector and apply an axial pullout force on the wire at a rate of 25 mm per min.	Mated	100 N MIN Force to overcome Latch	----
4	Cable Pullout Force (Right Angle Load)	Mate plug to connector and apply an right angle pullout force on the wire at a rate of 25 mm per min.	Mated	75 N MIN	----

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## 6.10 MECHANICAL TEST GROUP 5

ITEM	TEST	TEST PROCEDURE	CONDITION	REQUIREMENT	ACTUAL
1	Low Level Contact Resistance	EIA-364-23; apply a maximum voltage of 20 mV and a current of 100 mA.	Mated	baseline	---
2	Wire Flex	Flex cable 180° for 20 cycles. Test per EIA 364-41 test cond. I	Mated	No physical damage	PASS N=140
3	Low Level Contact Resistance	EIA-364-23; apply a maximum voltage of 20 mV and a current of 100 mA.	Mated	<10 mΩ Δ max from initial	PASS N=140

## 6.11 MECHANICAL TEST GROUP 6

ITEM	TEST	TEST PROCEDURE	CONDITION	REQUIREMENT	ACTUAL
1	Compliant Pin Insertion into PCB	Apply an axial insertion force on the terminal at a rate of 25±6 mm/min.		17.8 N (4.0 lbf) max insertion force per pin	MIN: 1009 N / CONNECTOR MAX: 1153 N / CONNECTOR AVG: 1069 N / CONNECTOR  ~ 7.6 N PER PIN
2	Compliant Pin Retention to PCB	Apply an axial extraction force on the terminal at a rate of 25±6 mm/min.		3 N min retention force per pin	MIN: 371 N / CONNECTOR MAX: 441 N / CONNECTOR AVG: 414 N / CONNECTOR  ~ 3 N PER PIN

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# PRODUCT SPECIFICATION

## 7.0 PACKAGING

### 7.1 CONNECTOR AND SHELL

7.1.1 Product shall be packaged in trays per the packaging specification as called out on the applicable assembly print.

7.1.2 Packaging shall meet the requirements of and be tested per the packaging specification as called out on the applicable assembly print.

### 7.2 PLUG AND CABLE ASSEMBLY

7.2.1 Product shall be packaged to protect against damage during handling, transit and storage.

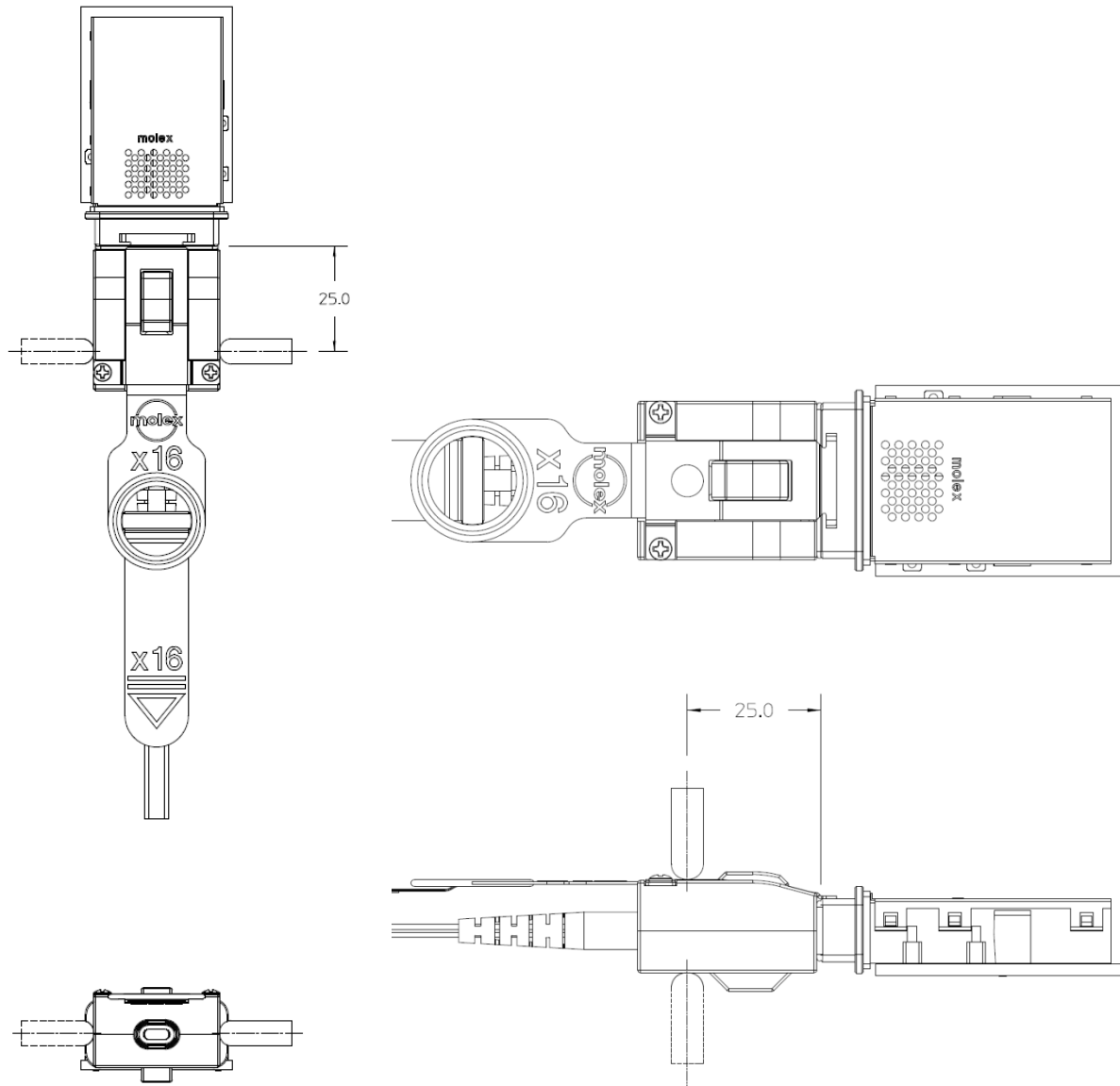
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## 8.0 GAGES AND FIXTURES

Test setup for latitudinal and longitudinal load testing and shell retention testing. Probe is about 6mm in diameter with a full radius nose. The probe is to be placed 20mm from the front edge of the receptacle and located at the centerline of the plug. Apply load to plug at a rate of 25mm per minute.



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# PRODUCT SPECIFICATION

## 9.0 OTHER INFORMATION

### 9.1 PCB REQUIREMENTS

These requirements are for connector series 173359.

The compliant pin shall be capable of being inserted one time.

The PCB hole shall be capable of retaining the compliant pin for a maximum of three insertions. The removal of the compliant pin from the PCB shall not damage the PCB hole beyond the point to be able to retain a compliant pin (that has not been inserted into a PCB). Refer to SI Routing specification AS-173359-0001.

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