



# molex 761553603 Impact 100 Ohm 4 Pair Vertical Backplane **Header Owner's Manual**

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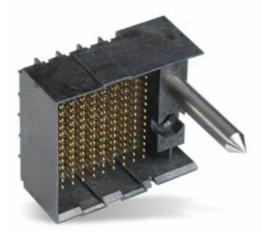


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molex 761553603 Impact 100 Ohm 4 Pair Vertical Backplane Header





#### **Product Information**

• Part Number: 761553603

• Product Description: Impact 100 Ohm 4 Pair Vertical Backplane Header, Left Guided, Open Endwall, 16

Columns, 192 Circuits, Pin Length 4.50mm, Plated Through Hole Dimension 0.46mm

• Series Number: 76155

• Status: Active

• Product Category: Backplane Connectors

#### **Product Usage Instructions**

1. Ensure that the backplane connector is compatible with your application.

- 2. Connect the Impact 100 Ohm 4 Pair Vertical Backplane Header to the appropriate mating part.
- 3. Make sure to align the left-guided orientation of the backplane header.
- 4. Insert the header into the mating part, ensuring a secure connection.
- 5. Verify that the pin length is appropriate for your setup (4.50mm).
- 6. Ensure that the plated through-hole dimension is suitable (0.46mm).
- 7. Check that the backplane header has the required number of columns (16) and circuits (192) for your application.
- 8. Take note of the electrical specifications, such as the maximum current per contact (0.75A), data rate (25.0 Gbps), and voltage (30V AC/DC).
- 9. Consider the physical characteristics, including the color of the resin (black), durability (mating cycles max), flammability (94V-0), and material composition.
- 10. Ensure proper mating with the part it connects to, using the provided guide to mating part keying.
- 11. Take note of the recommended PCB thickness, pitch for the mating interface, termination interface, and plating specifications.
- 12. Consider the temperature range for operating the backplane header.
- 13. Verify the appropriate solder process data and lead-free process capability.
- 14. Ensure compatibility with the corresponding daughtercard receptacles (Part Number 76160).

Please refer to the provided user manual for more detailed instructions and safety guidelines.

• Part Number: 761553603

Product Description: Impact 100 Ohm 4 Pair Vertical Backplane Header, Left Guided, Open Endwall, 16
Columns, 192 Circuits, Pin Length 4.50mm, Plated Through Hole Dimension 0.46mm, Lead-Free

• Series Number: 76155

Status: Active

· Product Category: Backplane Connectors

#### **Documents & Resources**

## **Drawings**

Drawing 761553603 sd.pdf

Packaging Design Drawing PK-70873-757-001.pdf

## 3D Models and Design Files

- 3D Model 761553603\_stp.zip
- Symbol Footprint Data SYM-76155-3603-001.zip

## **Specifications**

Product Specification PS-45499-002-001.pdf Test Summary TS-76160-0001-001.pdf

# **Product Environment Compliance**

## Compliance

GADSL/IMDS	Compliant with Exemption 44; 34;
	33
China RoHS	<b>©</b>
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2023)3788-DC (14 Jun 2023)
EU RoHS	Compliant per EU 2015/863

## **Multiple-Part Product Compliance Statements**

- Eu RoHS
- REACH SVHC
- · Low-Halogen

## **Multiple Part Industry Compliance Documents**

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration IEC-62474
- chemSHERPA (xml)

## **EU RoHS Certificate of Compliance**

#### **Part Details**

#### General

Status	Active
Category	Backplane Connectors
Series	76155
Description	Impact 100 Ohm 4 Pair Vertical Backplane Header, Le ft Guided, Open Endwall, 16 Columns, 192 Circuits, Pi n Length 4.50mm, Plated Through Hole Dimension 0.4 6mm, Lead-Free
Application	Conventional
Component Type	PCB Header
Product Family	Impact Backplane Connector and Cable Assembly Sy stem
Product Name	Impact
UPC	883906418731

# Agency

UL	E29179

## **Electrical**

Current – Maximum per Contact	0.75A
Data Rate	25.0 Gbps
Impedance	100Ω
Shield Type	N/A
Shielded	No
Voltage – Maximum	30V AC (RMS)/DC

# **Physical**

Circuits (Loaded)	192
Circuits (maximum)	192
Color – Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
Flammability	94V-0
Guide to Mating Part	Yes
Keying to Mating Part	None
Material – Metal	High-Performance Alloy (HPA)
Material – Plating Mating	Gold
Material – Plating Termination	Tin
Material – Resin	High Temperature Thermoplastic
Net Weight	7.259/g
Number of Columns	16
Number of Pairs	4
Number of Rows	12
Orientation	Vertical
Packaging Type	Tray
PC Tail Length	1.40mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness – Recommended	1.00mm
Pitch – Mating Interface	1.90mm
Pitch – Termination Interface	1.90mm
Plating min – Mating	0.762μm
Polarized to PCB	Yes
Stackable	No
Temperature Range – Operating	-55° to +85°C
Termination Interface Style	Through Hole – Compliant Pin

## **Solder Process Data**

Lead-Free Process Capability	N/A

#### Mates With / Use With

## Mates with Part(s)

Description	Part Number
Impact 100 Ohm 4 Pair Right-Angle Daughtercard Receptacles	<u>76160</u>

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#### **Documents / Resources**



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