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**Part Number:** [1705255107](#)  
**Status:** **Active**  
**Overview:** [Impact™ Backplane Connector and Cable Assembly System](#)  
**Description:** [Impact™ 85 Ohm Plus 3 Pair Vertical Backplane Header, Right Guide, Open Endwall, 10 Columns, 90 Circuits, Pin Length 4.90mm, Plated Through Hole Dimension 0.39mm, Lead Free](#)

**Documents:**  
[3D Model](#) [Application Specification AS-76060-990 \(PDF\)](#)  
[Drawing \(PDF\)](#) [Packaging Specification PK-70873-758 \(PDF\)](#)  
[Product Specification PS-170540-999 \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

|                                |                                                                       |
|--------------------------------|-----------------------------------------------------------------------|
| <b>Agency Certification</b>    |                                                                       |
| UL                             | E29179                                                                |
| <b>General</b>                 |                                                                       |
| Product Family                 | Backplane Connectors                                                  |
| Series                         | <a href="#">170525</a>                                                |
| Application                    | Conventional                                                          |
| Application Tooling Documents  | TM-622018799                                                          |
| Component Type                 | PCB Header                                                            |
| Overview                       | <a href="#">Impact™ Backplane Connector and Cable Assembly System</a> |
| Product Name                   | Impact™                                                               |
| UPC                            | 884982608009                                                          |
| <b>Physical</b>                |                                                                       |
| Circuits (Loaded)              | 90                                                                    |
| Circuits (maximum)             | 90                                                                    |
| Color - Resin                  | Gray                                                                  |
| 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                     | 5.630/g                                                               |
| Number of Columns              | 10                                                                    |
| Number of Pairs                | 3                                                                     |
| Number of Rows                 | 9                                                                     |
| Orientation                    | Vertical                                                              |
| PC Tail Length                 | 1.40mm                                                                |
| PCB Locator                    | No                                                                    |
| PCB Retention                  | None                                                                  |
| PCB Thickness - Recommended    | 1.00mm                                                                |
| Packaging Type                 | Tray                                                                  |
| Pitch - Mating Interface       | 1.35mm, 1.90mm                                                        |
| Pitch - Termination Interface  | 1.35mm, 1.90mm                                                        |
| Plating min - Mating           | 0.762µm                                                               |
| Polarized to PCB               | No                                                                    |
| Stackable                      | No                                                                    |
| Surface Mount Compatible (SMC) | No                                                                    |
| Temperature Range - Operating  | -55°C to +85°C                                                        |
| Termination Interface: Style   | Through Hole - Compliant Pin                                          |



Series image - Reference only

**EU ELV**  
**Not Relevant**

**EU RoHS** **China RoHS**  
**Compliant**  
**REACH SVHC**  
Not Contained Per  
-ED/79/2015 (17  
December 2015)  
**Halogen-Free**  
**Status**  
**Low-Halogen**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

China ROHS      Green Image  
ELV      Not Relevant

**Search Parts in this Series**  
[170525](#) Series

**Mates With**  
[170530](#) Impact™ 85 Ohm Plus Right Angle Receptacle

**Application Tooling | FAQ**  
*Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.*  
**Global**

| Description                                                             | Product #                  |
|-------------------------------------------------------------------------|----------------------------|
| Backplane Header                                                        | <a href="#">0621009610</a> |
| Removal Tool for GbX® U-Series, GbX I-Trac™, Impact™, or Z-PACK Tinman* |                            |

**Electrical**

|                               |                 |
|-------------------------------|-----------------|
| Current - Maximum per Contact | 0.75A           |
| Data Rate                     | 25.0 Gbps       |
| Impedance                     | 85#             |
| Shield Type                   | N/A             |
| Shielded                      | No              |
| Voltage - Maximum             | 30V AC (RMS)/DC |

**Solder Process Data**

|                             |     |
|-----------------------------|-----|
| Lead-freeProcess Capability | N/A |
|-----------------------------|-----|

**Material Info**

**Reference - Drawing Numbers**

|                           |                 |
|---------------------------|-----------------|
| Application Specification | AS-76060-990    |
| Packaging Specification   | PK-70873-758    |
| Product Specification     | PS-170540-999   |
| Sales Drawing             | SD-170525-0003  |
| Symbol/Footprint Data     | SYM-170525-5107 |

|                                        |                   |
|----------------------------------------|-------------------|
| Impact™ 85 Ohm Backplane Press-In Tool | <u>0622018813</u> |
| Impact™ Insertion Tool                 | <u>0621005850</u> |

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