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**Part Number:** [75836-0504](#)  
**Status:** **Active**  
**Overview:** [GbX® Backplane Connector System](#)  
**Description:** GbX® Backplane Connector System, 1.85mm by 1.85mm Pitch, Open Header, 30 Circuits, 3-Pair, 5 Columns, Gold (Au) 0.76µm, Pin Length 4.55mm, Lead-Free

**Documents:**

[3D Model](#) [Product Specification PS-75221-999 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

UL E29179

**General**

Product Family Backplane Connectors  
 Series [75836](#)  
 Application Backplane  
 Application Tooling Documents TM-622022099  
 Comments Open Header  
 Component Type PCB Header  
 Overview [GbX® Backplane Connector System](#)  
 Product Name GbX®  
 Style N/A  
 UPC 822350418850

**Physical**

Circuits (Loaded) 30  
 Circuits (maximum) 30  
 Color - Resin Gray  
 Durability (mating cycles max) 200  
 First Mate / Last Break No  
 Flammability 94V-0  
 Guide to Mating Part No  
 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 1.709/g  
 Number of Columns 5  
 Number of Pairs 3  
 Number of Rows 6  
 Orientation Vertical  
 PC Tail Length 2.20mm  
 PCB Locator No  
 PCB Retention Yes  
 PCB Thickness - Recommended 1.60mm  
 Packaging Type Tray  
 Pitch - Mating Interface 1.85mm  
 Pitch - Termination Interface 1.85mm  
 Plating min - Mating 0.762µm  
 Plating min - Termination 0.762µm  
 Polarized to PCB No  
 Stackable No  
 Surface Mount Compatible (SMC) Yes  
 Temperature Range - Operating 105°C

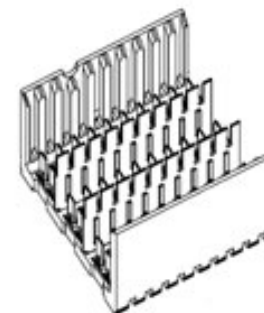


image - Reference only

Series

**EU RoHS**

**ELV and RoHS Compliant**

**REACH SVHC**

Not Reviewed

**Low-Halogen Status**

**Low-Halogen**

**China RoHS**



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

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

75836Series

**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 #
3-Pair by 5 Differential Insertion Tool	<a href="#">0622022500</a>

Termination Interface: Style

Through Hole - Compliant Pin

**Electrical**

Current - Maximum per Contact

1A

Data Rate

8.0 Gbps

Shield Type

Ground Plane Shield

Shielded

Yes

Voltage - Maximum

120V AC (RMS)/DC

**Material Info**

**Reference - Drawing Numbers**

Product Specification

PS-75221-999

Sales Drawing

SD-75836-010

GbX is a registered trademark of Amphenol Corporation.

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