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Part Number: [0758360504](#)
Status: **Active**
Overview: [gbx_backplane_connector_system](#)
Description: 1.85mm by 1.85mm (.073 by .073") Pitch 3-Pair GbX® Backplane Connector System, Open Header, 30 Circuits, Lead Free, Pin Length 4.55mm (.179")

Documents:

Packaging Specification (PDF)	Product Specification PS-75221-999 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

UL	E29179
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General

Product Family	Backplane Connectors
Series	75836
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	Open Header
Component Type	PCB Header
Overview	gbx_backplane_connector_system
Product Name	GbX®
Style	N/A

Physical

Circuits (Loaded)	30
Circuits (maximum)	30
Color - Resin	Black
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
Number of Columns	5
Number of Pairs	3
Number of Rows	6
Orientation	Vertical
PC Tail Length (in)	0.087 In
PC Tail Length (mm)	2.20 mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.063 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tube
Pitch - Mating Interface (in)	0.073 In
Pitch - Mating Interface (mm)	1.85 mm
Pitch - Term. Interface (in)	0.073 In
Pitch - Term. Interface (mm)	1.85 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	30

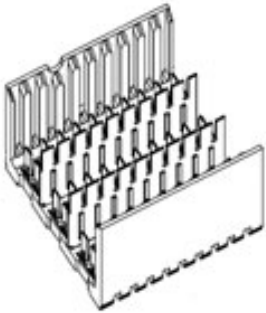


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



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

Email 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 #
GbX® 3 Pair by 5	0622022500
Differential Insertion Tool	

Plating min: Termination (μm)	0.76
Polarized to PCB	No
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	105°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical

Current - Maximum per Contact	1A
Data Rate	8.0 Gbps
Real Signals (per 25mm)	82
Shield Type	Ground Plane Shield
Shielded	Yes
Voltage - Maximum	120V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

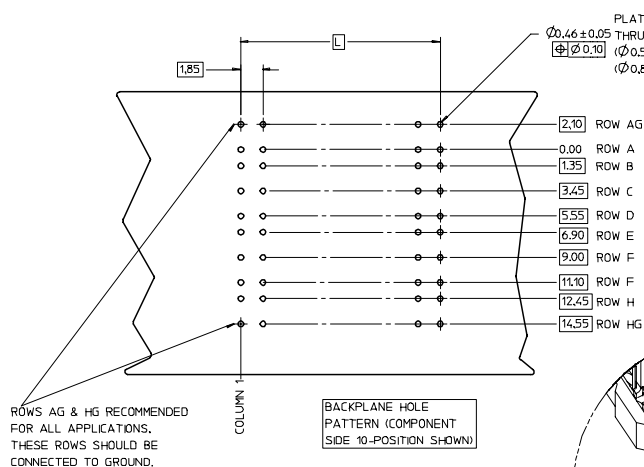
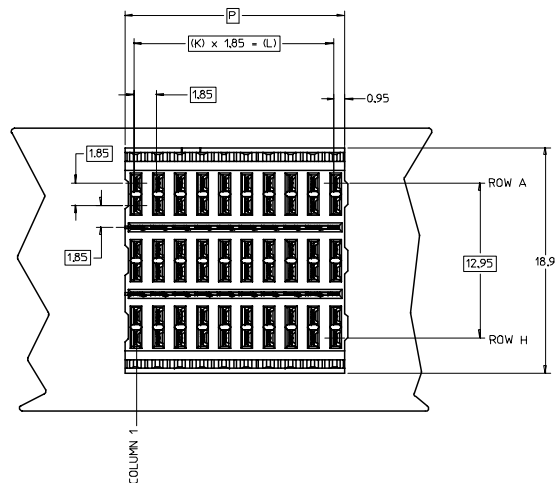
Packaging Specification	PK-70873-576
Product Specification	PS-75221-999
Sales Drawing	SD-75836-010

GbX is a registered trademark of Amphenol Corporation.

This document was generated on 05/14/2010

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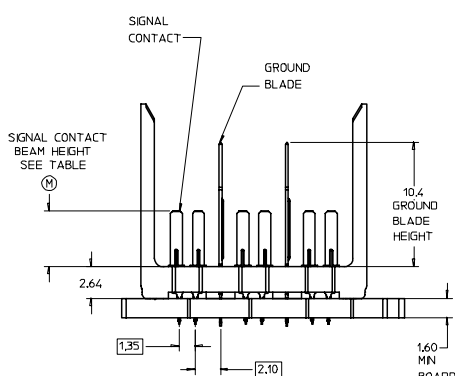
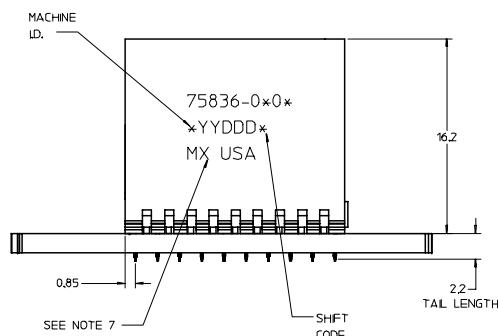
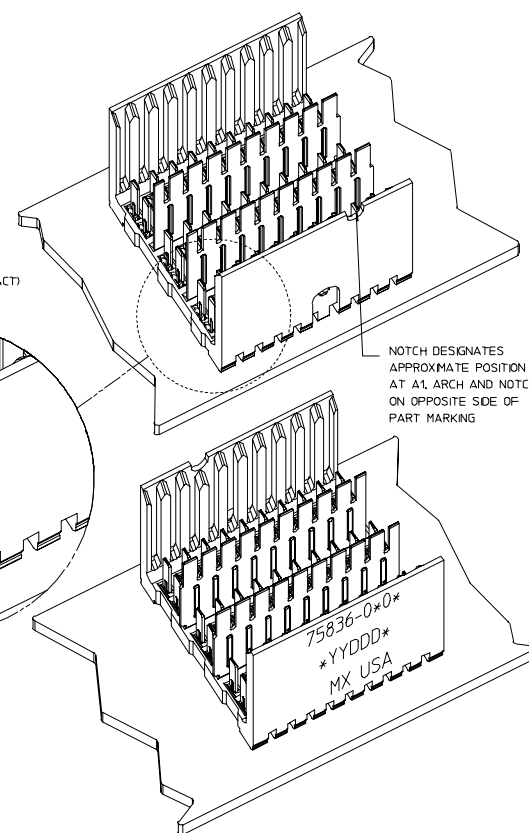
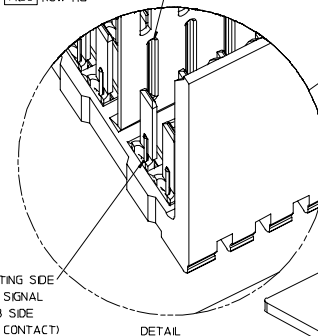
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



PLATED
 $\varnothing 0.46 \pm 0.05$ THRU HOLE
 $\varnothing 0.57$ DRILL
 $\varnothing 0.88$ PAD

2.10 ROW AG
 0.00 ROW A
 1.35 ROW B
 3.45 ROW C
 5.55 ROW D
 6.90 ROW E
 9.00 ROW F
 11.10 ROW G
 12.45 ROW H
 14.55 ROW HG

MATING SIDE OF
 SHIELD (OPPOSITE
 RB SIDE OF CONTACT)



LEAD-FREE
 PLATING ON
 SIGNALS & GROUNDS.

- NOTES:
1. MATERIAL: HOUSING - LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED, UL 94V-0, COLOR - GRAY. SIGNAL CONTACT AND GROUND BLADE - HIGH PERFORMANCE COPPER ALLOY.
 2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA. SELECTIVE MATTE TIN (Sn) ON PCB TAILS. NICKEL (Ni) OVERALL.
 3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
 4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY. CONTACT PAIRS MUST BE THE SAME LENGTH.
 5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION PLEASE REFER TO CHART.
 6. PACKAGE PER PK-70873-576.
 7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.

PART NUMBER TABLE			
ASSY PART NO.	K	L	P
75836-010*	9	16.65	18.35
75836-020*	24	44.40	46.10
75836-050*	4	7.40	9.10

REVISED EC NO: UCP2006-2458 DRAWN: JBINGHAM 2006/04/20 CHKD: 2006/04/20 APPR: CBXLER 2006/04/20	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 5:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	REVISE ON CAD ONLY				
		 		mm	INCH	DIMENSION STYLE MM ONLY		TITLE					
			4 PLACES	±	---	±	---	DRAWN BY DATE		GBX 3-PAIR OPEN END			
			3 PLACES	±	---	±	---	CTHOMAS 2006/01/13		BACKPLANE ASSEMBLY			
			2 PLACES	±	---	±	---	CHECKED BY DATE		LEAD-FREE SALES DRAWING			
			1 PLACE	±	---	±	---	KMULVEY 2006/01/16		 MOLEX INCORPORATED			
		ANGULAR ±---		---		APPROVED BY DATE		MATERIAL NO.		DOCUMENT NO.	SHEET NO.		
		DRAFT WHERE APPLICABLE				J.BINGHAM 2006/01/17		SEE CHART		SD-75836-010	1 OF 1		
		MUST REMAIN WITHIN DIMENSIONS											

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1