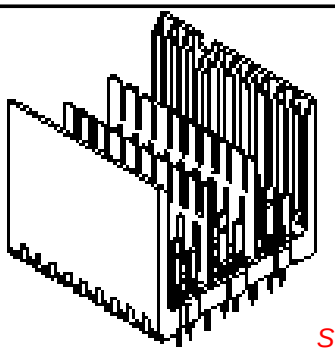
This document was generated on 06/02/2010

# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0754330504
**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, Gold (Au) 0.76µm (30µ"), Pin Length 4.55mm (.179")



*Series image - Reference only*

**Documents:**
Packaging Specification (PDF)
RoHS Certificate of Compliance (PDF)
Drawing (PDF)

## Agency Certification

| | |
|---|---|
| UL | E29179 |

## General

| | |
|---|---|
| Product Family | Backplane Connectors |
| Series | 75433 |
| Application | Backplane |
| Application Tooling Documents | <a href="http://www.molex.com/pdm_docs/ats/TM-622022099.pdf">Tooling Manual</a> |
| 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-Lead |
| 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 |

**EU RoHS**
RoHS Compliant by Exemption
**REACH SVHC**
Contains SVHC: No
**Halogen-Free Status**
Halogen-Free

**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**
75433Series

**Mates With**
75370 GbX® Daughtercards

**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® Single Pin Repair Tool | 0622022090 |
| GbX® Shield Removal Tool | 0622022100 |
| GbX® 3 Pair by 5 Differential Insertion Tool | 0622022500 |

| | |
|---|---|
| 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

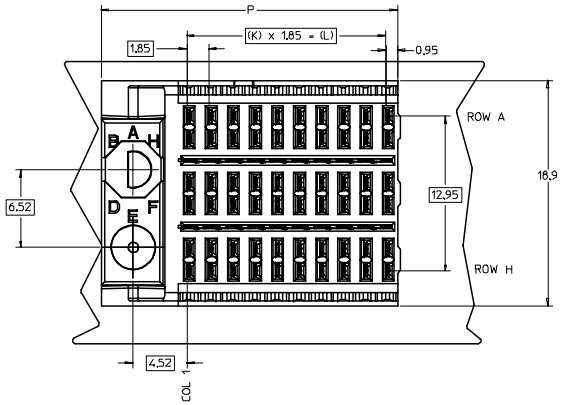
| | |
|---|---|
| Current - Maximum per Contact | 1A |
| Data Rate | 8.0 Gbps |
| Real Signals (per 25mm) | 81 |
| Shield Type | Ground Plane Shield |
| Shielded | Yes |
| Voltage - Maximum | 120V AC (RMS)/DC |

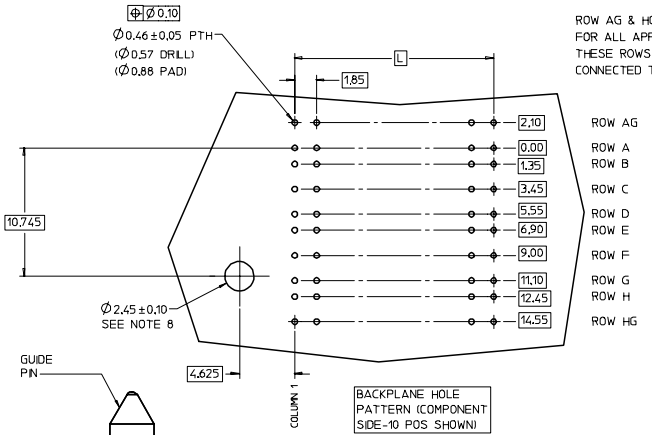
## Material Info

## Reference - Drawing Numbers

| | |
|---|---|
| Packaging Specification | PK-70873-576 |
| Sales Drawing | SD-75433-010 |

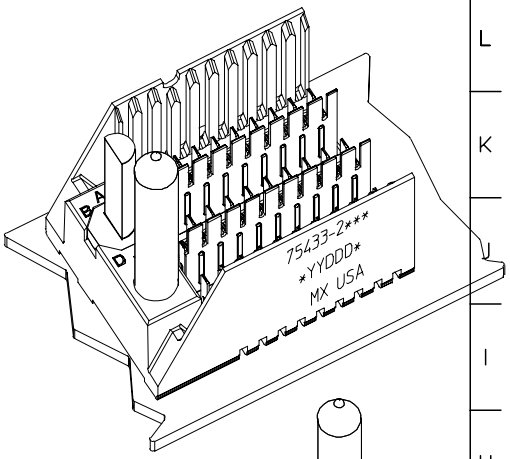
GbX is a registered trademark of Amphenol Corporation.

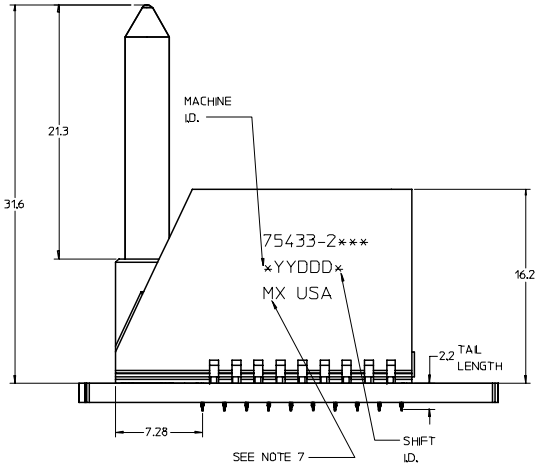


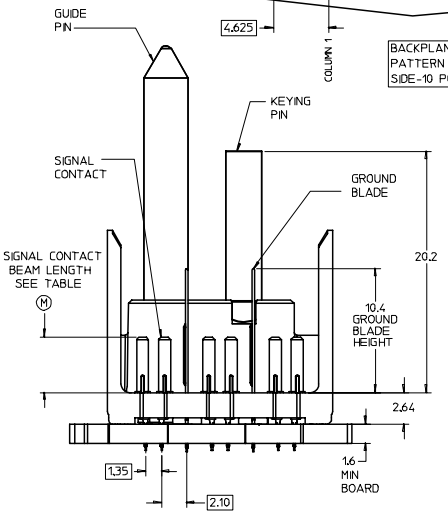



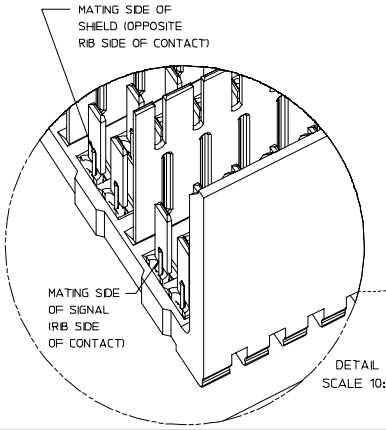

ROW AG & HG RECOMMENDED FOR ALL APPLICATIONS. THESE ROWS SHOULD BE CONNECTED TO GROUND.

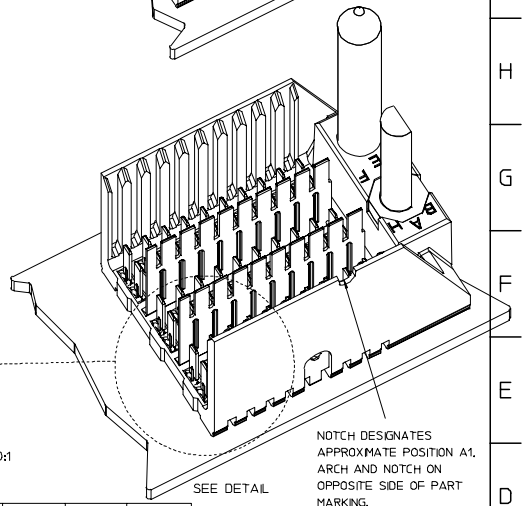
BACKPLANE HOLE PATTERN (COMPONENT SIDE-10 POS SHOWN)




| PART NUMBER TABLE | | | | |
|---|---|---|---|---|
| ASSY PART NO. | K | L | P | TOTAL NO. OF DIFFERENTIAL PAIRS |
| 75433-21** | 9 | 16.65 | 24.78 | 30 |
| 75433-22** | 24 | 44.40 | 52.53 | 75 |
| 75433-25** | 4 | 7.40 | 15.53 | 15 |

| P/N 75433-( ) | -**0* 0 | -**1* A | -**2* B | -**3* C | -**4* D | -**5* E | -**6* F | -**7* G | -**8* H |
|---|---|---|---|---|---|---|---|---|---|
| KEYING PIN ORIENTATION | | | | | | | | | |

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 TIN/LEAD (Sn/Pb) 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-70873-572.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE A LABEL ON THE TUBE.
8. OPTIONAL HOLE LOCATION FOR GROUNDED GUIDE PIN OR ADDITIONAL GUIDE PIN SUPPORT. FOR GROUNDED GUIDE PIN, HOLE TO BE PLATED, DRILL SIZE Ø2.58, PAD SIZE Ø5.50
9. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B.

MODULE ORIENTATION
LEFT = 2

75433-2 * * *

KEYING ORIENTATION
0 = NONE
1 = A
2 = B
ETC...

COLUMN
1-10 COL
2-25 COL
5= 5 COL

PIN LENGTH
DIM "M"
3=3.55 mm
4=4.55 mm
5=5.55 mm

REVISED
EC NO: UCP2007-2799
DRWN: JBINGHAM 2007/05/02
CHKD: 2007/05/03
APPR: SREED 2007/05/03
DESCRIPTION
REV
C

QUALITY SYMBOLS
▼ = 0
▽ = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR | ±---° | |

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE 5:1
DESIGN UNITS METRIC
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
DIMENSION STYLE MM ONLY

DRAWN BY NMARTIN DATE 2005/02/21
CHECKED BY CBIXLER DATE 2005/02/21
APPROVED BY SREED DATE 2005/02/21

TITLE
GBX 3-PAIR LEFT END BACKPLANE SALES ASSEMBLY
MOLEX INCORPORATED
MATERIAL NO. SEE CHART
DOCUMENT NO. SD-75433-210
SHEET NO. 1 OF 1

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

D