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Part Number:

0850170074

Status:

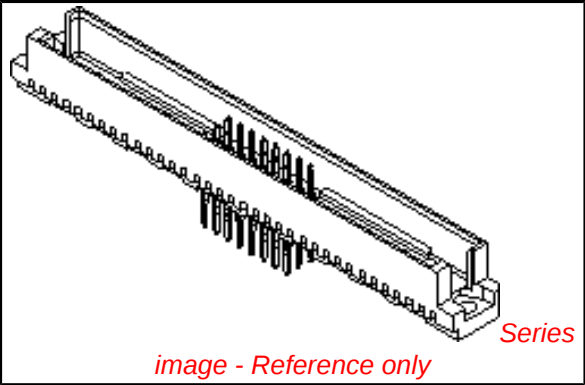
Active

Overview:

[din\\_41612](#)

Description:

2.54mm (.100") Pitch DIN 41612/EIC 603-2 Mixed Layout Connector, Male Style M(Hybrid type), Inverse Press-Fit, 0.6µm (24µ") Gold (Au) Selective, 48 Circuits, Lead Free



Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-85013-0002 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

| Agency Certification           |                           |
|--------------------------------|---------------------------|
| CSA                            | LR19980                   |
| UL                             | E29179                    |
| General                        |                           |
| Product Family                 | Backplane Connectors      |
| Series                         | 85017                     |
| Application                    | Backplane                 |
| Comments                       | Mixed Layout              |
| Component Type                 | PCB Header                |
| Overview                       | <a href="#">din_41612</a> |
| Product Name                   | IEC 603-2/DIN 41612       |
| Style                          | M                         |
| Physical                       |                           |
| Circuits (Loaded)              | 48                        |
| Circuits (maximum)             | 48                        |
| Circuits Detail                | 42 Signal , 6 Power       |
| Color - Resin                  | Gray                      |
| Durability (mating cycles max) | 400                       |
| First Mate / Last Break        | No                        |
| Flammability                   | 94V-0                     |
| Guide to Mating Part           | No                        |
| Keying to Mating Part          | Yes                       |
| Material - Metal               | Phosphor Bronze           |
| Material - Plating Mating      | Gold                      |
| Material - Plating Termination | Tin                       |
| Material - Resin               | Polyester                 |
| Number of Columns              | 16                        |
| Number of Pairs                | Open Pin Field            |
| Number of Rows                 | 3                         |
| Orientation                    | Vertical                  |
| PC Tail Length (in)            | 0.228 In                  |
| PC Tail Length (mm)            | 5.80 mm                   |
| PCB Locator                    | No                        |
| PCB Retention                  | Yes                       |
| PCB Thickness Recommended (in) | 0.062 In                  |
| PCB Thickness Recommended (mm) | 1.60 mm                   |
| Packaging Type                 | Tray                      |
| Pitch - Mating Interface (in)  | 0.100 In                  |
| Pitch - Mating Interface (mm)  | 2.54 mm                   |
| Pitch - Term. Interface (in)   | 0.100 In                  |
| Pitch - Term. Interface (mm)   | 2.54 mm                   |
| Plating min: Mating (µin)      | 24                        |
| Plating min: Mating (µm)       | 0.6                       |

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](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

85017Series

Mates With

85048 Straight Female Style M Receptacle.

85056 Straight Female Style M "inverse" Receptacle

Use With

85023 DIN 41612 Coaxial Contact

|                                |                              |
|--------------------------------|------------------------------|
| Plating min: Termination (μin) | 16                           |
| Plating min: Termination (μm)  | 0.4                          |
| Polarized to PCB               | No                           |
| Stackable                      | Yes                          |
| Surface Mount Compatible (SMC) | No                           |
| Temperature Range - Operating  | -55°C to +125°C              |
| Termination Interface: Style   | Through Hole - Compliant Pin |

**Electrical**

|                               |               |
|-------------------------------|---------------|
| Current - Maximum per Contact | 1.5A          |
| Data Rate                     | 622.0 Mbps    |
| Voltage - Maximum             | 250V AC (RMS) |

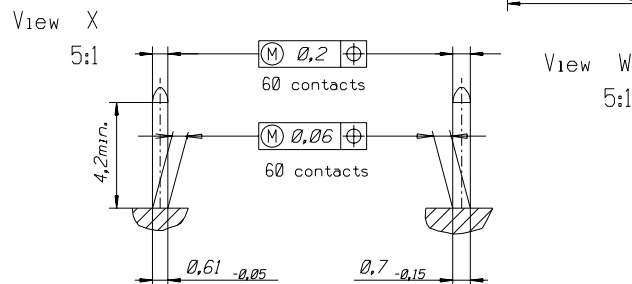
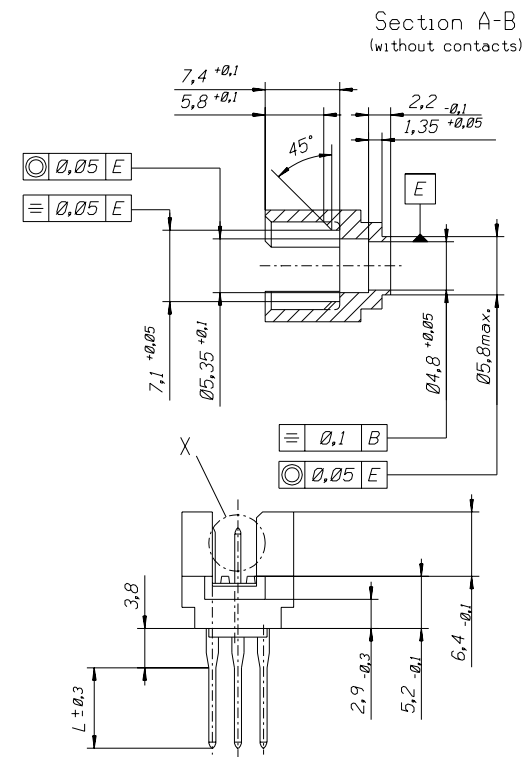
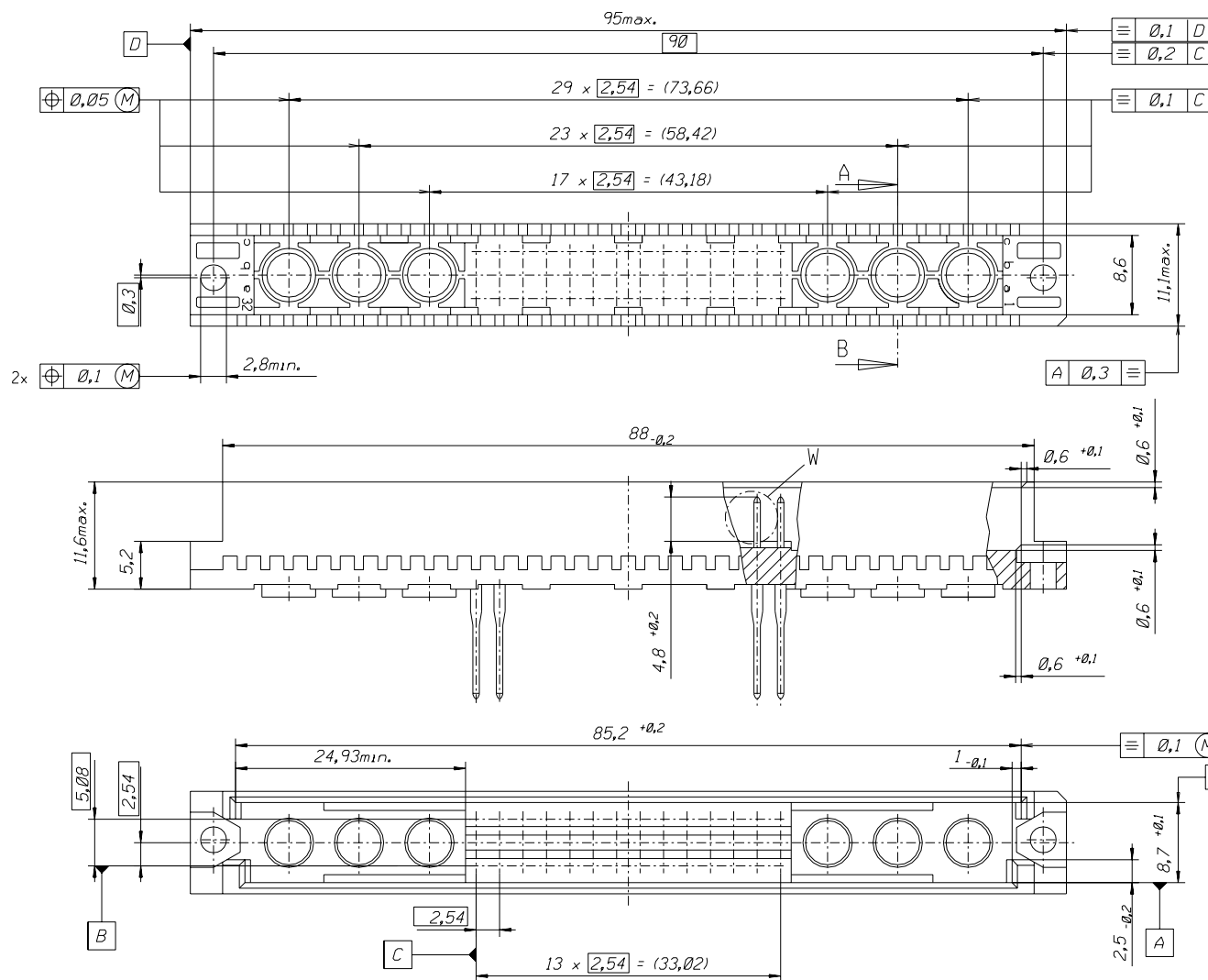
**Material Info**

**Reference - Drawing Numbers**

|                       |                           |
|-----------------------|---------------------------|
| Product Specification | PS-85013-0002             |
| Sales Drawing         | 603-6093-24, SD-85017-004 |

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|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------|----------|--|
| FIRST ANGLE PROJECTION                                                                  |                                                                 |             |  |                                                                                                    | REVISE ONLY ON CAD SYSTEM                                                             |                 |                                                                                                                        | SH. REV. |  |
| REVISIONS<br>SEE MFR LIST                                                               | UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR $\pm 2^\circ$ |             | DRWG<br>BY<br><br>Ca                                                                  | SIGN                                                                                               | CADDAM PROJECT NAME<br>60393241<br>dgn                                                |                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |          |  |
|                                                                                         | INCH METRIC                                                     |             |                                                                                       |                                                                                                    |                                                                                       |                 |                                                                                                                        |          |  |
|                                                                                         | 3 PLACE $\pm$ .                                                 | $\pm$       | CHK'D<br>BY<br><br>KN                                                                 | SIGN                                                                                               | TITLE<br>42 pos. Male connector<br>DIN 41612 style M (C-Pin)<br>inverted / Dimensions |                 |                                                                                                                        |          |  |
|                                                                                         | 2 PLACE $\pm$ .                                                 | $\pm$       |                                                                                       |                                                                                                    |                                                                                       |                 |                                                                                                                        |          |  |
|                                                                                         | 1 PLACE $\pm$ .                                                 | $\pm$       |                                                                                       |                                                                                                    |                                                                                       |                 |                                                                                                                        |          |  |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS                                 |                                                                 | APP'D<br>BY | SIGN                                                                                  |  MOLEX EUROPE |                                                                                       | SHEET NO. DATE  |                                                                                                                        |          |  |
| DESIGN DIMENSION <input type="checkbox"/> MM<br><input type="checkbox"/> IN.            |                                                                 |             |                                                                                       |                                                                                                    |                                                                                       | 1 OF 3 93/05/04 |                                                                                                                        |          |  |
| EQUIVALENT DIMENSION <input type="checkbox"/> MM<br><input type="checkbox"/> IN.        |                                                                 | SCALE       |                                                                                       | PART NO.                                                                                           |                                                                                       | DWG NO.         |                                                                                                                        | SIZE     |  |
| IF TWO DIMENSIONS ARE SHOWN THE UPPER IS<br>THE DESIGN DIMENSION THE LOWER IS SECONDARY |                                                                 | 2:1         |                                                                                       | see sh. no. 2 of 3                                                                                 |                                                                                       | 603-6093-24     |                                                                                                                        | B        |  |