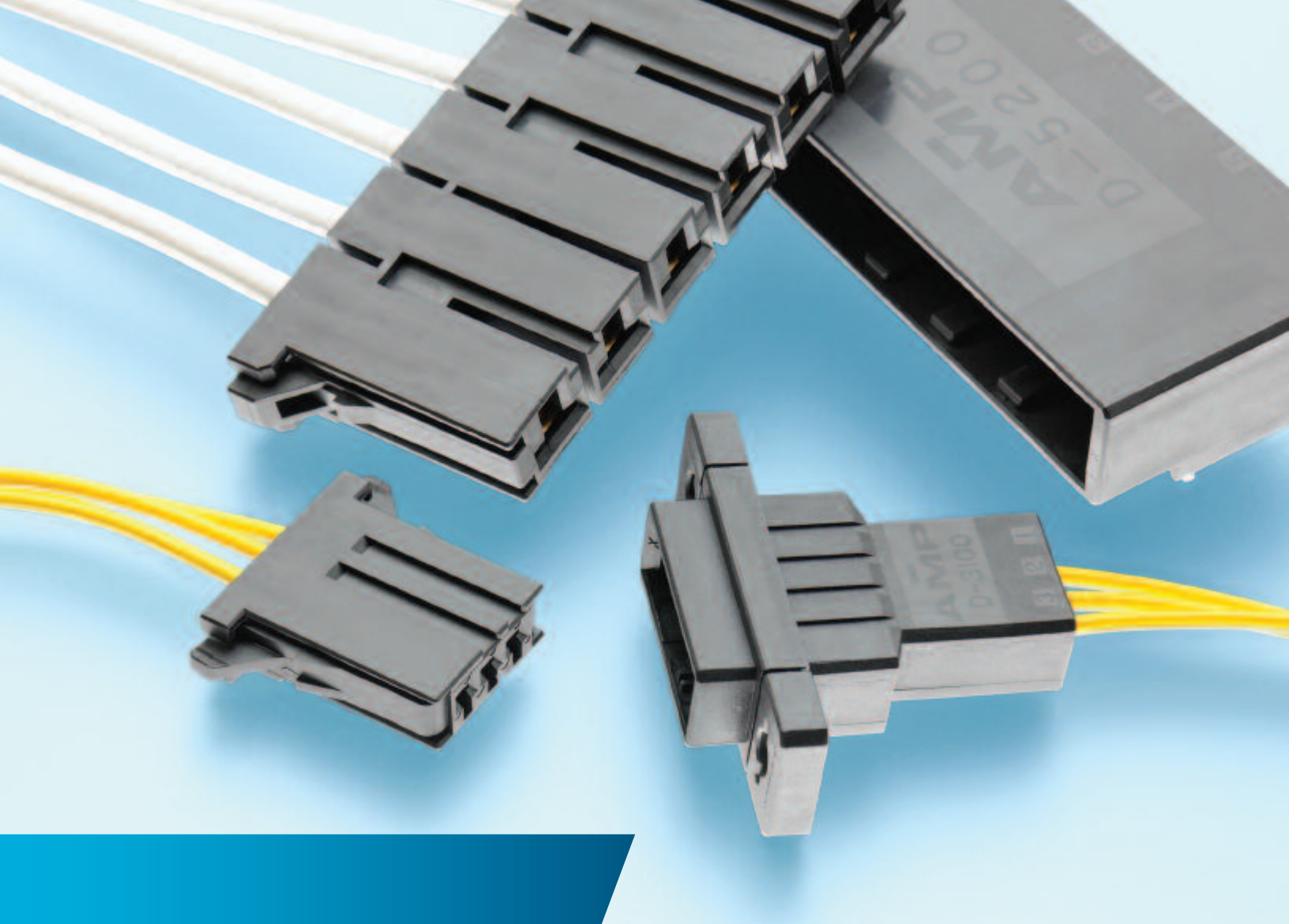




# AMP Dynamic Series Connectors



## Overview

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**See inside back cover for Global Contacts and phone numbers.**

**Note:** Connectors are not designed to mate and unmate on energized line.

### Product Facts

- **Connector system designed for exclusive use with I/O and power circuits in the power and control boards of heavy electric systems and FA equipment, process computers, FA computers, PCs, NCs, servodrivers, servomotors, inverters, switching power supplies, etc.**
- **Consists of wire-side connector and board-side connector**
- **Diverse housings are available to meet most specific applications**
- **With contacts standardized, the tool types used can be reduced**
- **Termination can be automated and field maintenance simplified**
- **As contacts can be crimped, connector quality is maintained**
- **Standardization of contacts leads to easier management of inventory**
- **To help prevent human errors in termination a common identification mark is on hand tools and contacts**
- **Housing color and design are coordinated**

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- Technical Support
- Catalogs
- Technical Documents
- Product Samples
- Tyco Electronics Authorized Distributor Locations

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- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog
- Downloadable Technical Data Customer Information Presentation
- More detailed information regarding the definitions used above
- So whatever your questions when it comes to RoHS, we've got the answers at [www.tycoelectronics.com/leadfree](http://www.tycoelectronics.com/leadfree)

**RoHS  
Customer  
Support  
Center**

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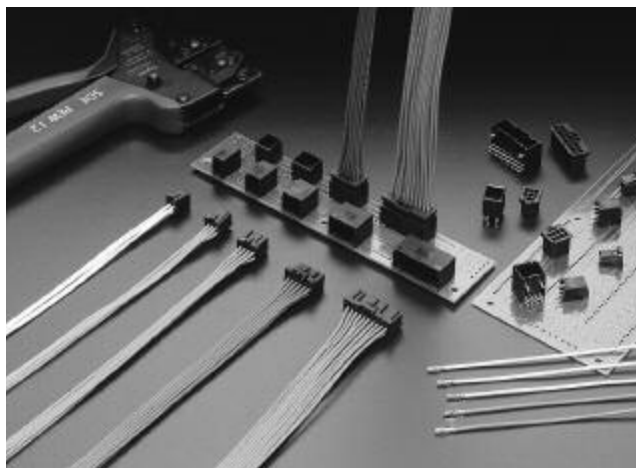
## D-1000 Series (Wire-to-Board, Wire-to-Panel and Wire-to-Wire)

### Product Facts

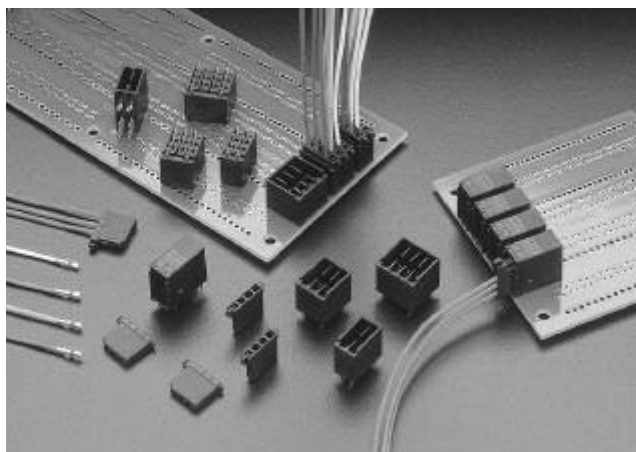
- Header and tab connectors have enough length from the tip of contact to top of housing to help prevent contact from bending when receptacle mates to tab connector.
- D-1000 has housing lance structure. Without contact lance, it is expected to avoid contact lance broken in terminal process handling
- Clear identification of circuit number provides for correct wiring
- Metal retention leg assembly tab header helps prevent damage from unexpected cable tension
- Housing lock design



D-1100



D-1200



D-1500

D-1000 Series are the smallest connectors for signal lines in the Dynamic connector series. D-1000 Series occupies 40% less volume than the D-2000 Series, so it can contribute to customers' equipment miniaturizing requirement.

D-1000 Series receptacle and tab contacts have a wide wire range, 30 through 18 AWG with 2.2 mm wire insulation diameter maximum, which is commonly used for electrical cabinet wiring.

D-1000 Series housings consist of D-1110 Series for 2.0 mm centerline and D-1200 Series for 2.5 mm centerline as the standard type. In addition, D-1500 Series housings are for 3.5 mm centerline sensor applications or branch connection of power lines.

D-1000 Series has gold plated contacts as standard and also tin plated contacts for economical market needs. Customers have a choice of contacts depending on specifications, application, and cost.

Crimping hand tool features a changeable die set structure. It offers minimal installation tooling cost. This tooling system will evolve to D-2000, D-3000 and D-4000 Series in the future.

## D-1000 Series (Continued)

### D-1 Contact and Performance Specifications

#### Crimp Type

| Applicable Wire Range |      | Wire Ins. Diameter mm | Wire Range Mark | Style       | Contact Part Numbers |             |              |             | Tool Numbers    |                                    |
|-----------------------|------|-----------------------|-----------------|-------------|----------------------|-------------|--------------|-------------|-----------------|------------------------------------|
|                       |      |                       |                 |             | Receptacle Contact   |             | Tab Contact  |             | Mini Applicator | Hand Tool <sup>1</sup> (Dies Only) |
|                       |      |                       |                 |             | Gold Plating         | Tin Plating | Gold Plating | Tin Plating |                 |                                    |
| 30                    | 0.05 | 0.6~1.2               | S               | Strip Form  | 1827569-2            | —           | 1903111-2    | —           | 1891033-2       | —                                  |
| 28                    | 0.09 |                       |                 | Loose Piece | 1827586-2            | —           | 1903115-2    | —           | —               | 1762952-1<br>(1762953-1)           |
| 28                    | 0.08 | 1.08~1.6              | M               | Strip Form  | 1827570-2            | 1871303-1   | 1903112-2    | 1903120-1   | 1891035-2       | —                                  |
| 26                    | 0.12 |                       |                 | Loose Piece | 1827587-2            | 1871743-1   | 1903116-2    | 1903124-1   | —               | 1762846-1<br>(1762847-1)           |
| 24                    | 0.20 |                       |                 |             |                      |             |              |             |                 |                                    |
| 22                    | 0.38 |                       |                 |             |                      |             |              |             |                 |                                    |
| 28                    | 0.08 | 1.08~1.9              | L               | Strip Form  | 1827571-2            | 1871304-1   | 1903113-2    | 1903121-1   | 1891036-2       | —                                  |
| 26                    | 0.12 |                       |                 | Loose Piece | 1827588-2            | 1871744-1   | 1903117-2    | 1903125-1   | —               | 1762950-1<br>(1762951-1)           |
| 24                    | 0.20 |                       |                 |             |                      |             |              |             |                 |                                    |
| 22                    | 0.38 |                       |                 |             |                      |             |              |             |                 |                                    |
| 22                    | 0.34 | 1.4~2.2               | 2L              | Strip Form  | 1827572-2            | 1871731-1   | 1903114-2    | 1903122-1   | 1891037-2       | —                                  |
| 20                    | 0.50 |                       |                 | Loose Piece | 1827589-2            | 1871745-1   | 1903118-2    | 1903126-1   | —               | 1762625-1<br>(1762626-1)           |
| 18                    | 0.86 |                       |                 |             |                      |             |              |             |                 |                                    |

Notes: Minimum order quantity for tooling is one.

Tin plating: 2.0 µm.

Mini-Applicators are for use with automachines. (For more information, contact Technical Support at the numbers listed below.)

Strip Form contacts are for use with Mini-Applicators (automachines) and Loose-Piece contacts are for Hand tools.

The contacts L and 2L do not fit into the D-1100 receptacle housing.

<sup>1</sup> With handle.

#### Performance Characteristics

| Series —                          | D-1100                    | D-1200                    | D-1500                    |
|-----------------------------------|---------------------------|---------------------------|---------------------------|
| Pitch —                           | 2.0 mm                    | 2.5 mm                    | 3.5 mm                    |
| Voltage Rating —                  | 125 VAC                   | 250 VAC                   | 250 VAC                   |
| Current Rating (Max.) —           | Pos. :3A<br>(AWG 22 wire) | Pos. :5A<br>(AWG 18 wire) | Pos. :5A<br>(AWG 18 wire) |
| Contact Resistance —              | 20 mΩ max.                | 20 mΩ max.                | 20 mΩ max.                |
| Dielectric Withstanding Voltage — | 700 V                     | 1100 V                    | 1100 V                    |
| Temperature Range —               | -55°C~+105°C              | -55°C~+105°C              | -55°C~+105°C              |

\*When connectors are used singly.

#### Material and Finish

**Receptacle Contact** — Copper alloy, 0.38 µm gold plated over 1.27 µm nickel underplate

**Tab Contact** — Copper alloy, 0.38 µm gold plated over 1.27 µm nickel underplate

**PCB Tab Post** — Copper alloy, 0.38 µm gold plated over 1.27 µm nickel underplate, Tab Post 2.0 µm tin plated

**Housing** — Glass-filled polyester (PBT), UL94V-0

#### Specifications and Instruction Sheets

##### Product Specifications

108-78268 (Gold plating)

108-78298 (Tin plating)

##### Application Specification

114-5377

##### Crimping Tool Instruction Sheets

411-78194 (Part Number 1762625-1)

411-78201 (Part Number 1762846-1)

411-78204 (Part Number 1762950-1)

411-78205 (Part Number 1762952-1)

#### Safety Specifications for D-1000 Series

|                                                | Voltage Rating   | Current Rating  | Temperature Rating |
|------------------------------------------------|------------------|-----------------|--------------------|
| Tyco Electronics Specifications<br>108-78268 — | 125 VAC (2 mm)   | 3A (1 position) | -55°C~+105°C       |
|                                                | 250 VAC (2.5 mm) | 5A (1 position) |                    |
|                                                | 250 VAC (3.5 mm) |                 |                    |

**UL File Number** — E 28476

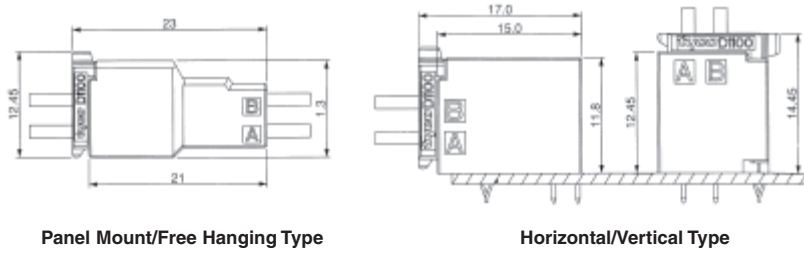
**CSA Report Number** — Pending Approval

**TUV License Number** — Pending Approval

## D-1000 Series (Continued)

### D-1100D

#### Mating Dimensions



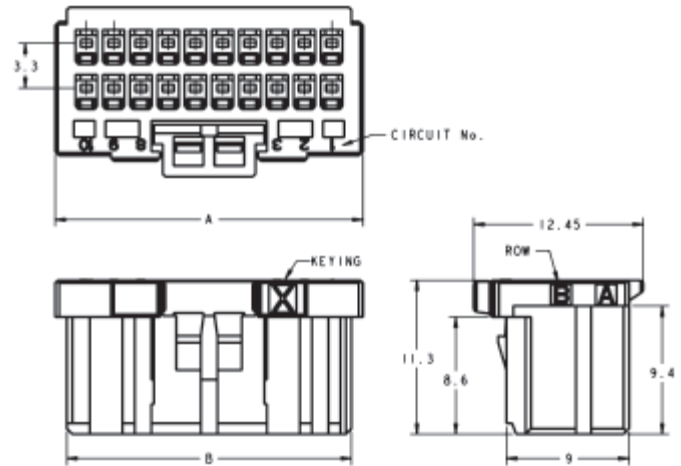
Panel Mount/Free Hanging Type

Horizontal/Vertical Type

#### External Dimensions

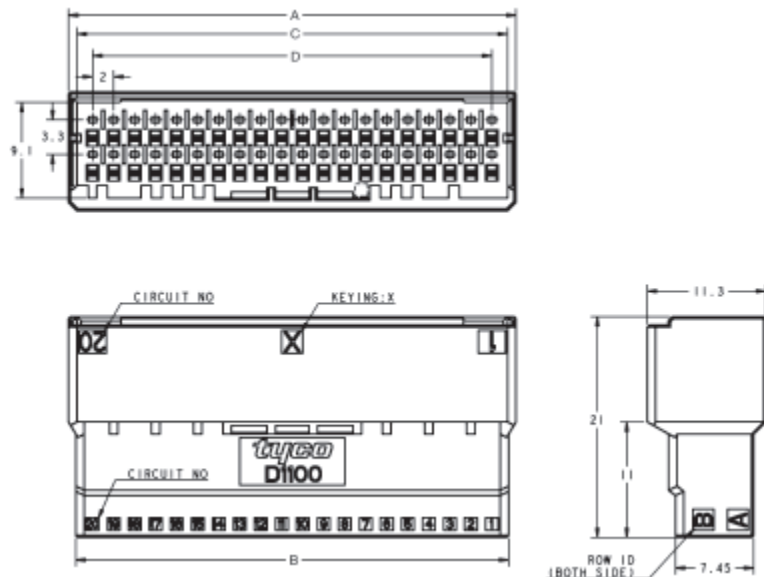
##### Receptacle Housing

| No. of Pos. | Color   | Part No.    | Dimensions |      |
|-------------|---------|-------------|------------|------|
|             |         |             | A          | B    |
| 10          | Black   | 1-1827862-5 | 12.6       | 10.9 |
| 20          | Black   | 1-1827862-0 | 22.6       | 20.9 |
| 22          | Black   | 1-1827863-1 | 24.6       | 22.9 |
|             | Yellow  | 3-1871057-1 |            |      |
| 26          | Black   | 1-1827863-3 | 28.6       | 26.9 |
|             | Natural | 1-1871057-3 |            |      |
| 28          | Black   | 1-1827863-4 | 30.6       | 28.9 |
|             | Black   | 1-1827863-5 |            |      |
| 30          | Natural | 1-1871057-5 | 32.6       | 30.9 |
|             | Yellow  | 3-1871057-5 |            |      |
| 32          | Black   | 1-1827863-6 | 34.6       | 32.9 |
| 34          | Black   | 1-1827863-7 | 36.6       | 34.9 |
| 40          | Black   | 1-1827863-0 | 42.6       | 40.9 |



##### Tab Housing

##### Panel Mount Type/ Free Hanging Type

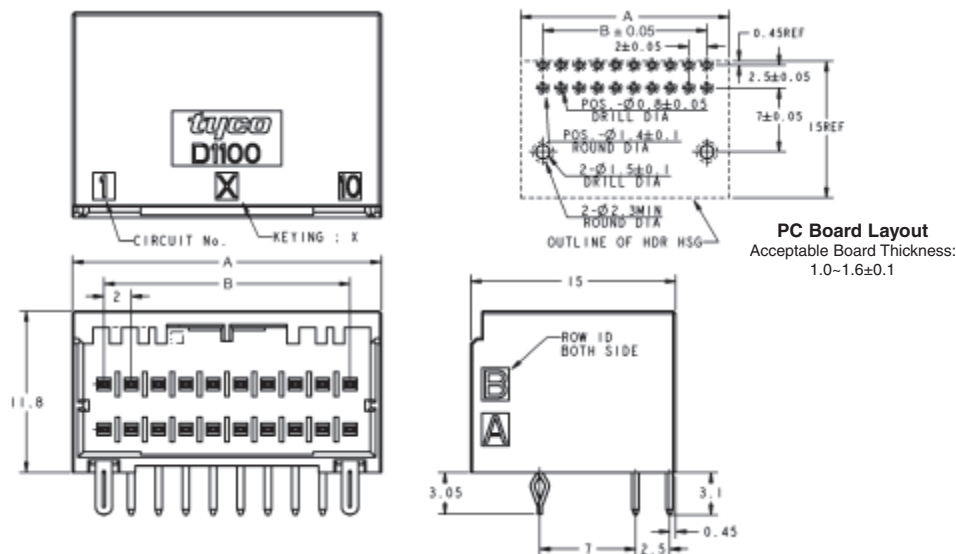


| No. of Pos. | Part No.         |                   | Dimensions |      |      |      |
|-------------|------------------|-------------------|------------|------|------|------|
|             | Panel Mount Type | Free Hanging Type | A          | B    | C    | D    |
| 22          | 1-1903128-1      | 1-1903127-1       | 24.6       | 23.2 | 23.0 | 20.0 |
| 26          | 1-1903128-3      | 1-1903127-3       | 28.6       | 27.2 | 27.0 | 24.0 |
| 28          | 1-1903128-4      | 1-1903127-4       | 30.6       | 29.2 | 29.0 | 26.0 |
| 32          | 1-1903128-6      | 1-1903127-6       | 34.6       | 33.2 | 33.0 | 30.0 |
| 34          | 1-1903128-7      | 1-1903127-7       | 36.6       | 35.2 | 35.0 | 32.0 |
| 40          | 1-1903128-0      | 1-1903127-0       | 42.6       | 41.2 | 41.0 | 38.0 |

## D-1000 Series (Continued)

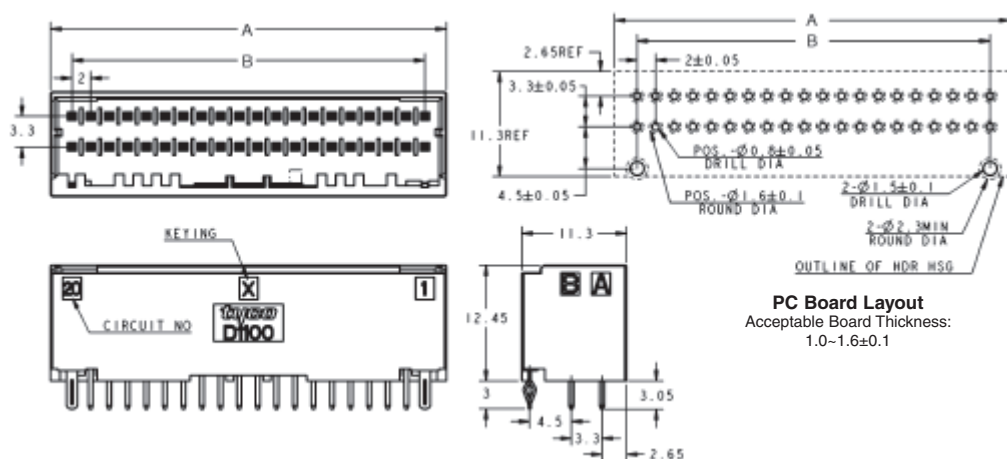
### D-1100D

#### Board Mount Tab Header (Horizontal Type)



| No. of Pos. | Part No.    | Dimensions |      |
|-------------|-------------|------------|------|
|             |             | A          | B    |
| 10          | 1-1827873-5 | 12.6       | 8.0  |
| 20          | 1-1827873-0 | 22.6       | 18.0 |

#### Board Mount Tab Header (Vertical Type)

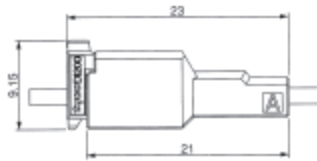


| No. of Pos. | Plating | Color   | Part No.    | Dimensions |      |
|-------------|---------|---------|-------------|------------|------|
|             |         |         |             | A          | B    |
| 22          | Gold    | Black   | 1-1827872-1 | 24.6       | 20.0 |
|             | Tin     | Yellow  | 3-1871056-1 |            |      |
| 26          | Gold    | Black   | 1-1827872-3 | 28.6       | 24.0 |
|             | Tin     | Natural | 1-1871056-3 |            |      |
| 28          | Gold    | Black   | 1-1827872-4 | 30.6       | 26.0 |
|             | Gold    | Black   | 1-1827872-5 |            |      |
| 30          | Tin     | Black   | 1-1871315-5 | 32.6       | 28.0 |
|             | Tin     | Natural | 1-1871056-5 |            |      |
|             | Tin     | Yellow  | 3-1871056-5 |            |      |
| 32          | Gold    | Black   | 1-1827872-6 | 34.6       | 30.0 |
| 34          | Gold    | Black   | 1-1827872-7 | 36.6       | 32.0 |
| 40          | Gold    | Black   | 1-1827872-0 | 42.6       | 38.0 |
|             | Tin     | Black   | 1-1871315-0 |            |      |

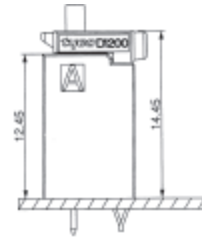
## D-1000 Series (Continued)

### D-1200S

#### Mating Dimensions



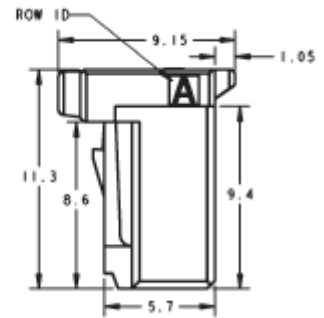
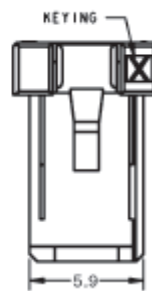
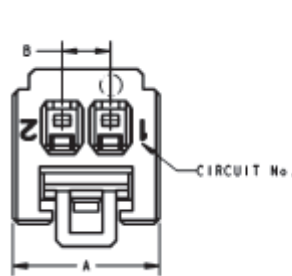
Free Hanging Type



Vertical Type

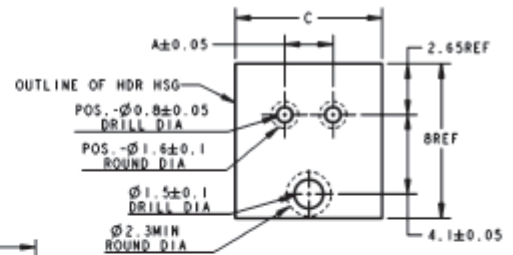
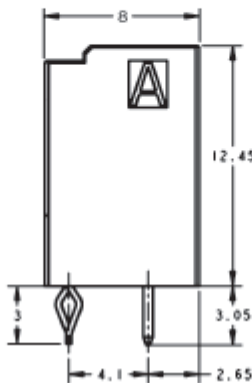
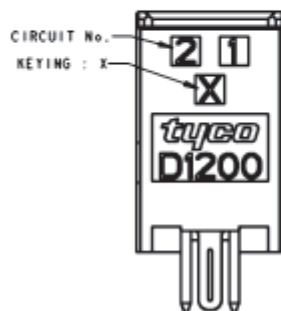
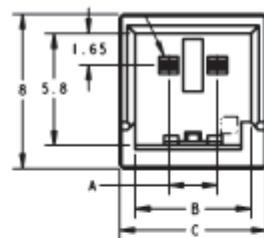
#### Dimensions

##### Receptacle Housing



| No. of Pos. | Keying | Part No.    | Dimensions |     |
|-------------|--------|-------------|------------|-----|
|             |        |             | A          | B   |
| 2           | X      | 1-1871465-2 | 7.6        | 2.5 |
|             | Y      | —           | —          | —   |

#### Board Mount Tab Header (Vertical Type)



**PC Board Layout**  
Acceptable Board Thickness:  
1.0~1.6±0.1

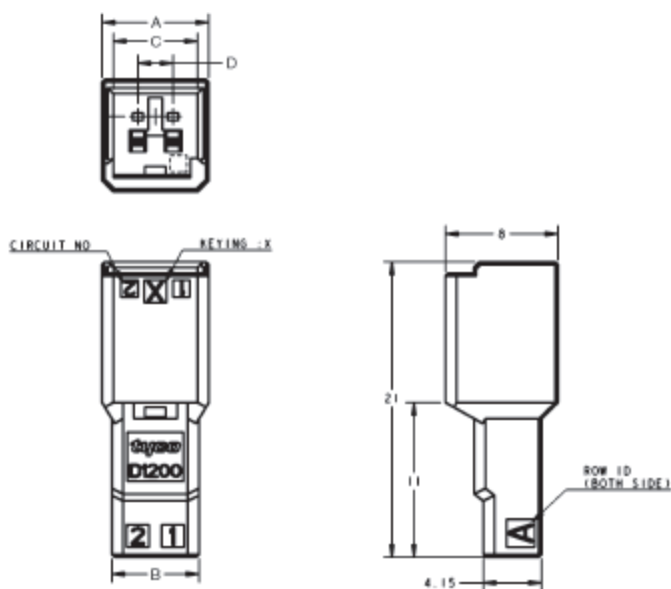
| No. of Pos. | Keying | Part No.    | Dimensions |     |     |
|-------------|--------|-------------|------------|-----|-----|
|             |        |             | A          | B   | C   |
| 2           | X      | 1-1871468-2 | 2.5        | 6.0 | 7.6 |
|             | Y      | —           | —          | —   | —   |

## D-1000 Series (Continued)

### D-1200S

Tab Housing

Free Hanging Type

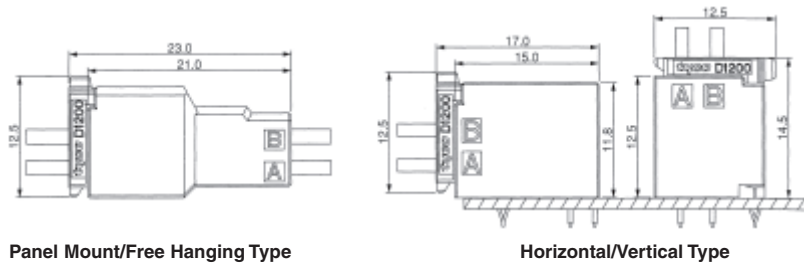


| No. of Pos. | Keying | Part No.          | Dimensions |     |     |     |
|-------------|--------|-------------------|------------|-----|-----|-----|
|             |        | Free Hanging Type | A          | B   | C   | D   |
| 2           | X      | 1-1903129-2       | 7.6        | 6.2 | 6.0 | 2.5 |
|             | Y      | —                 | —          | —   | —   | —   |

## D-1000 Series (Continued)

### D-1200D

#### Mating Dimensions



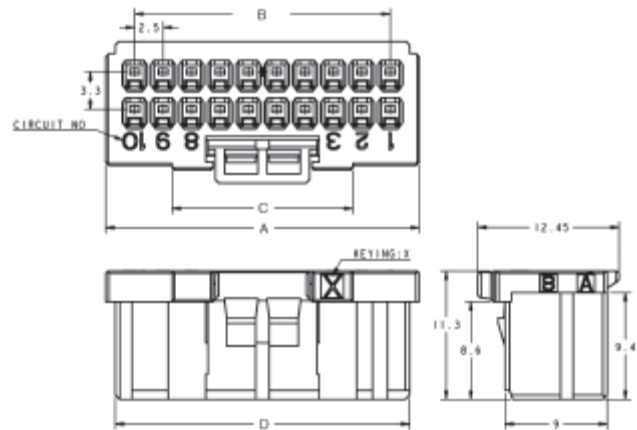
Panel Mount/Free Hanging Type

Horizontal/Vertical Type

#### Dimensions

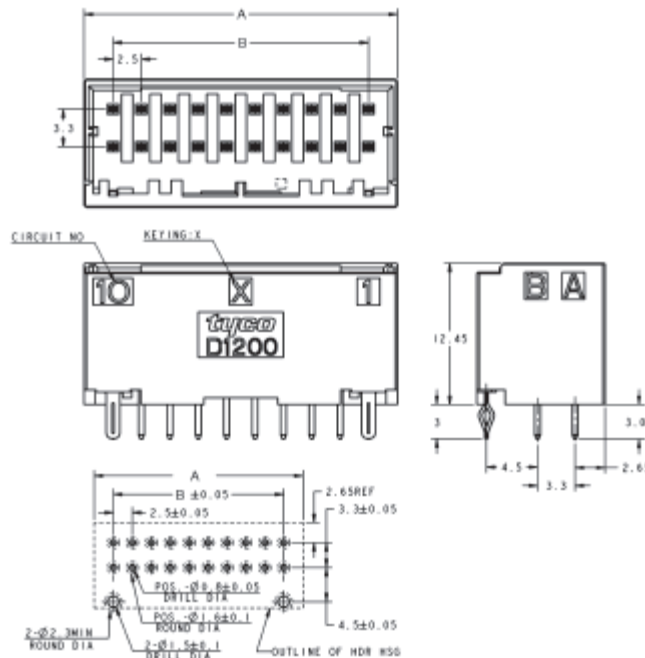
##### Receptacle Housing

| No. of Pos. | Keying | Part No.    | Dimensions |      |      |      |
|-------------|--------|-------------|------------|------|------|------|
|             |        |             | A          | B    | C    | D    |
| 4           | X      | 1-1827864-2 | 7.6        | 2.5  | —    | 5.9  |
|             | Y      | 2-1827864-2 |            |      |      |      |
| 6           | X      | 1-1827864-3 | 10.1       | 5.0  | 8.4  | 8.4  |
|             | Y      | 2-1827864-3 |            |      |      |      |
| 8           | X      | 1-1827864-4 | 12.6       | 7.5  | 10.9 | 10.9 |
|             | Y      | 2-1827864-4 |            |      |      |      |
| 10          | X      | 1-1827864-5 | 15.1       | 10.0 | 10.9 | 13.4 |
|             | Y      | 2-1827864-5 |            |      |      |      |
| 12          | X      | 1-1827864-6 | 17.6       | 12.5 | 15.9 | 15.9 |
|             | Y      | 2-1827864-6 |            |      |      |      |
| 20          | X      | 1-1827864-0 | 27.6       | 22.5 | 15.9 | 25.9 |
|             | Y      | 2-1827864-0 |            |      |      |      |



##### Board Mount Tab Header (Vertical Type)

| No. of Pos. | Keying | Part No.    | Dimensions |      |
|-------------|--------|-------------|------------|------|
|             |        |             | A          | B    |
| 4           | X      | 1-1827875-2 | 7.6        | 2.5  |
|             | Y      | 2-1827875-2 |            |      |
| 6           | X      | 1-1827875-3 | 10.1       | 5.0  |
|             | Y      | 2-1827875-3 |            |      |
| 8           | X      | 1-1827875-4 | 12.6       | 7.5  |
|             | Y      | 2-1827875-4 |            |      |
| 10          | X      | 1-1827875-5 | 15.1       | 10.0 |
|             | Y      | 2-1827875-5 |            |      |
| 12          | X      | 1-1827875-6 | 17.6       | 12.5 |
|             | Y      | 2-1827875-6 |            |      |
| 20          | X      | 1-1827875-0 | 27.6       | 22.5 |
|             | Y      | 2-1827875-0 |            |      |



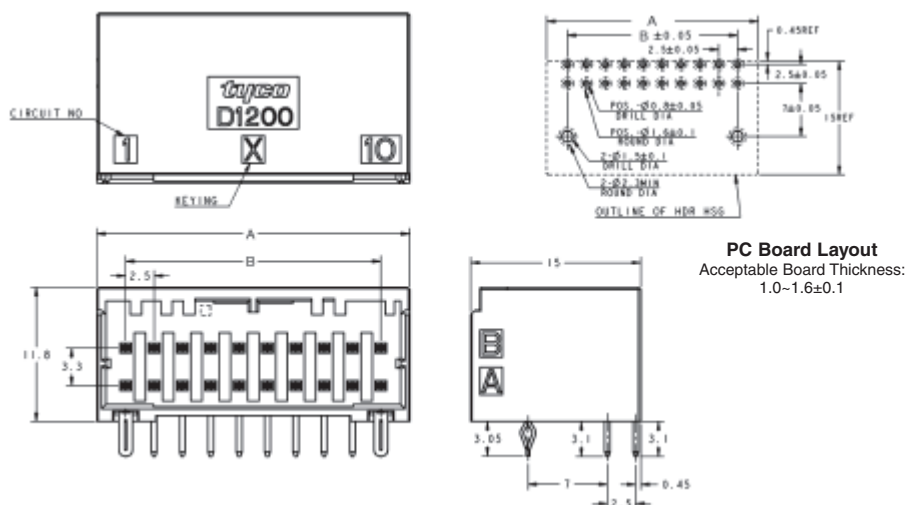
#### PC Board Layout

Acceptable Board Thickness:  
1.0-1.6±0.1

### D-1000 Series (Continued)

## D-1200D

### Board Mount Tab Header (Horizontal Type)

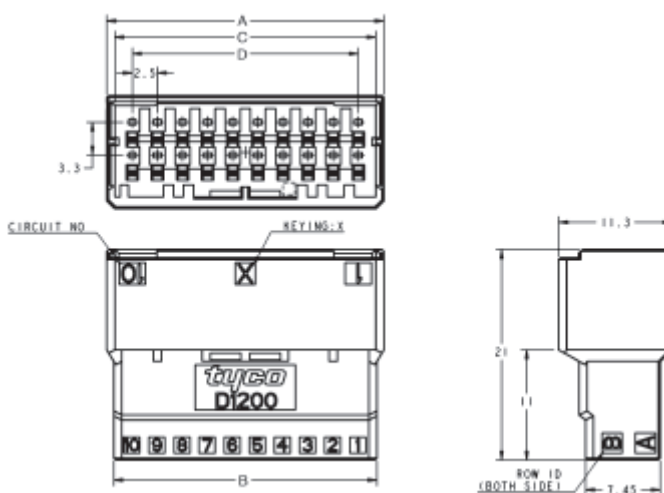


| No. of Pos. | Part No.     | Dimensions |      |
|-------------|--------------|------------|------|
|             |              | A          | B    |
| 4           | 1-1827876-2  | 7.6        | 2.5  |
|             | 1-1871673-2* |            |      |
| 6           | 1-1827876-3  | 10.1       | 5.0  |
| 8           | 1-1827876-4  | 12.6       | 7.5  |
| 12          | 1-1827876-6  | 17.6       | 12.5 |
|             | 1-1871673-6* |            |      |
| 20          | 1-1827876-0  | 27.6       | 22.5 |

\* Marked tab posts are tin plated. Other tab posts are gold plated.

## Tab Housing

### Panel Mount Type/ Free Hanging Type



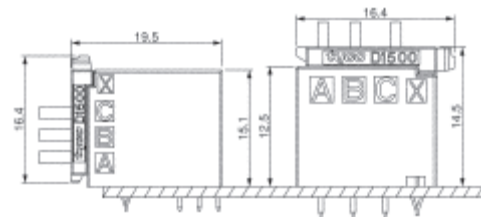
| No. of Pos. | Part No.         |                   | Dimensions |      |      |      |
|-------------|------------------|-------------------|------------|------|------|------|
|             | Panel Mount Type | Free Hanging Type | A          | B    | C    | D    |
| 4           | 1-1903131-2      | 1-1903130-2       | 7.6        | 6.2  | 6.0  | 2.5  |
| 6           | 1-1903131-3      | 1-1903130-3       | 10.1       | 8.7  | 8.5  | 5.0  |
| 8           | 1-1903131-4      | 1-1903130-4       | 12.6       | 11.2 | 11.0 | 7.5  |
| 12          | 1-1903131-6      | 1-1903130-6       | 17.6       | 16.2 | 16.0 | 12.5 |
| 20          | 1-1903131-0      | 1-1903130-0       | 27.6       | 26.2 | 26.0 | 22.5 |

Please contact Technical Support about Y-Key.

## D-1000 Series (Continued)

### D-1500T

#### Mating Dimensions

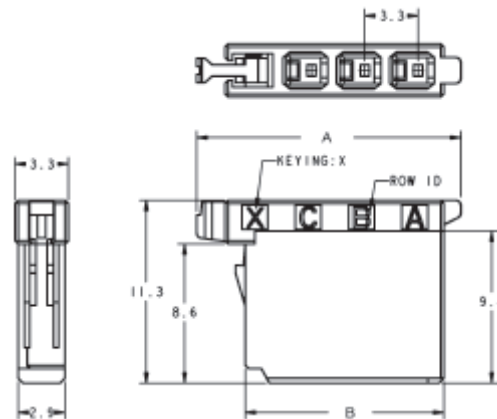


Horizontal/Vertical Type

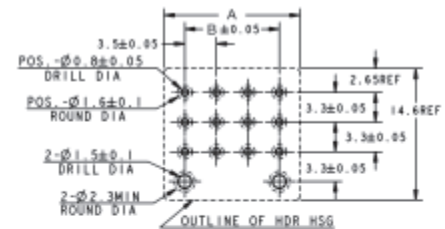
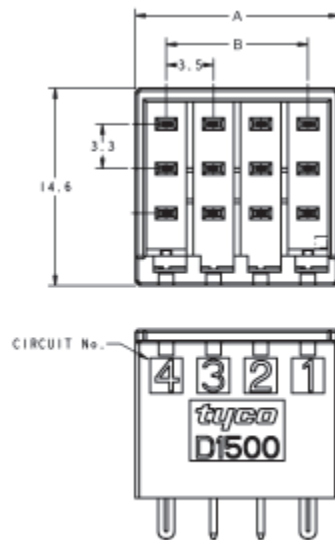
#### Dimensions

##### Receptacle Housing

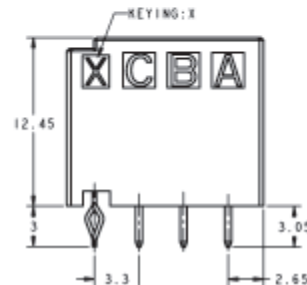
| No. of Pos. | Part No.    | Dimensions |      |
|-------------|-------------|------------|------|
|             |             | A          | B    |
| 3           | 1-1827579-1 | 16.35      | 12.3 |



##### Board Mount Tab Header (Vertical Type)



PC Board Layout  
Acceptable Board Thickness:  
1.0~1.6±0.1

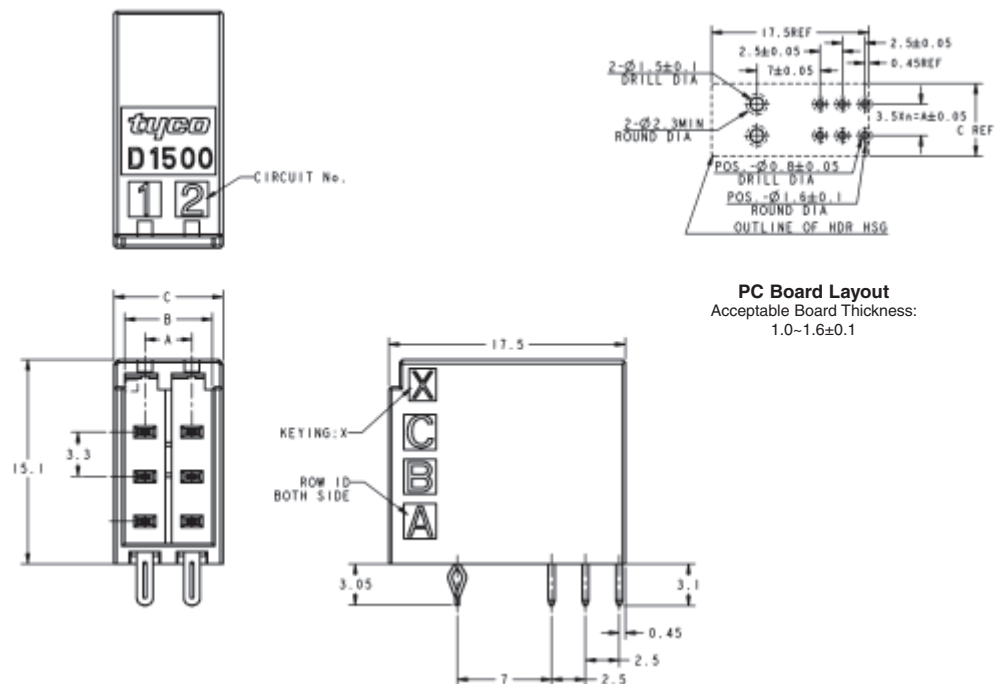


| No. of Pos. | Part No.    | Dimensions |      |
|-------------|-------------|------------|------|
|             |             | A          | B    |
| 6           | 1-1827581-2 | 8.1        | 3.5  |
| 9           | 1-1827581-3 | 11.6       | 7.0  |
| 12          | 1-1827581-4 | 15.1       | 10.5 |

### D-1000 Series (Continued)

## D-1500T

### Board Mount Tab Header (Horizontal Type)



| No. of Pos. | Part No.    | Dimensions |     |     |
|-------------|-------------|------------|-----|-----|
|             |             | A          | B   | C   |
| 6           | 1-1827583-2 | 3.5        | 6.5 | 8.1 |



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