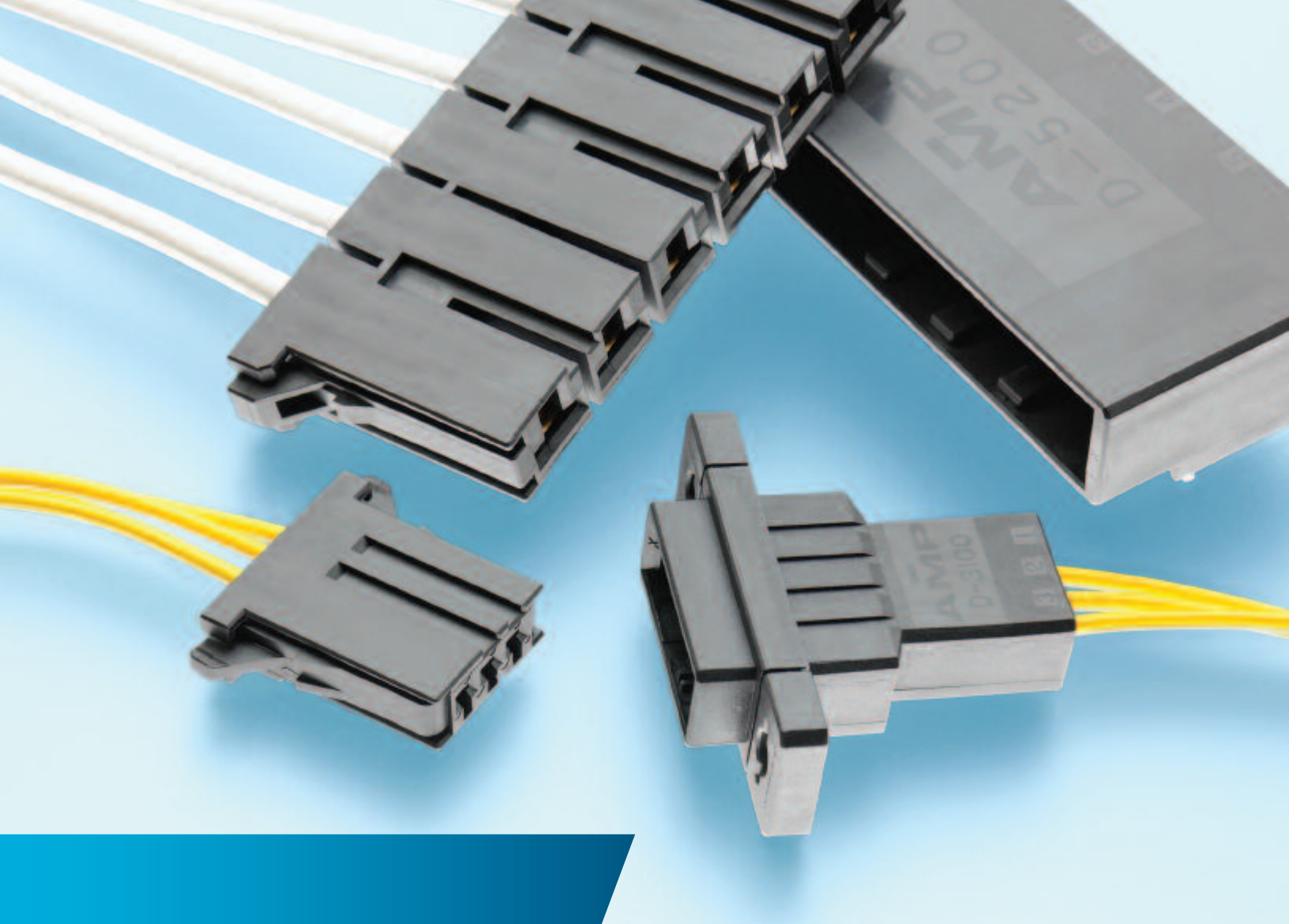




AMP Dynamic Series Connectors



Overview

Disclaimer

While Tyco Electronics Corporation and its affiliates referenced herein ("Tyco Electronics") have made every reasonable effort to ensure the accuracy of the information in this catalog, Tyco Electronics does not guarantee that it is error-free, nor does Tyco Electronics make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. Tyco Electronics reserves the right to make any adjustments to the information contained herein at any time without notice. Tyco Electronics expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. Tyco Electronics' only obligations are those in the Tyco Electronics Standard Terms and Conditions of Sale, and in no case will Tyco Electronics be responsible for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of its products. Users should independently evaluate the suitability of, and test each product for, their application.

The dimensions, specifications, designs, construction, materials and processes in this catalog are for reference purposes only and are subject to change without notice. Please consult Tyco Electronics for the most current product information.

The export of certain Tyco Electronics products is restricted by the Arms Export Control Act (Title 22, U.S.C. Sec 2751, et seq.) or the Export Administration Act of 1979, as amended (Title 50, U.S.C., App. 2401 et seq.). Orders may be subject to export approval by the U.S. Government. Buyer must comply with all applicable export laws of all applicable jurisdictions.

© 1998, 2002, 2004 and 2007 by Tyco Electronics Corporation. All Rights Reserved.

AMP, AMP-O-LECTRIC, AMP-O-MATIC, AMPLIMITE, the TE Logo and TYCO ELECTRONICS are trademarks.

Other products, logos, and company names mentioned herein may be trademarks of their respective owners.

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**

Need more information?

Call Technical Support at the numbers listed below.

Technical Support is staffed with specialists well versed in Tyco Electronics products. They can provide you with:

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

Restriction on the use of Hazardous Substances (RoHS)

At Tyco Electronics, we're ready to support your RoHS requirements. We've assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where any change was required to eliminate the restricted materials. Part numbers in this catalog are identified as:

RoHS Compliant — Part numbers in this catalog are RoHS Compliant, unless marked otherwise. These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006.

NOTE: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.

NOTE: Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced at right.

Getting the Information You Need

Our comprehensive on-line RoHS Customer Support Center provides a forum to answer your questions and support your RoHS needs. A RoHS FAQ (Frequently Asked Questions) is available with links to more detailed information. You can also submit RoHS questions and receive a response within 24 hours during a normal work week. The Support Center also provides:

- 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

**RoHS
Customer
Support
Center**

Table of Contents

Product Facts	2
Table of Contents	3-5
D-1000 Series	
Introduction and Product Facts	6
D-1 Contacts (Strip and Loose Piece), Application Tooling, Performance Characteristics and Technical Documents	7
D-1100D — 2-Row Type	
Dimensions (Mating and External), Receptacle & Tab Housings and Board-mounting Tab Headers (Horizontal and Vertical)	8, 9
D-1200S	
Dimensions (Mating and External), 2-Pos. Receptacle & Tab Housings and Board-mounting Tab Header (Vertical)	10, 11
D-1200D — 2-Row Type	
Dimensions (Mating and External), Receptacle & Tab Housings and Board-mounting Tab Headers (Horizontal and Vertical)	12, 13
D-1500T	
Dimensions (Mating and External), 3-Pos. Receptacle Housing and Board-mounting Tab Headers (Horizontal and Vertical)	14, 15
D-2000 Series	
List of Products by Application (D-2100S, D-2100D and D-2100M)	16
Performance Specifications	17, 18
D-2 Contacts (Strip and Loose Piece) and Application Tooling	19
D-2100S — 1-Row Type	
Typical Applications, Mating Combinations and 3-Pos. Housings & Headers	20
Keying	21
Dimensions (Mating and External), 3-Pos. Receptacle & Tab Housings and 3-Pos. Board-mounting Tab Headers (Vertical and Horizontal)	22, 23
D-2100D — 2-Row Type	
Typical Applications, Mating Combinations and Housings & Headers	24
Keying	25
Dimensions (Mating and External), Receptacle & Tab Housings and Board-mounting Tab Headers (Vertical and Horizontal)	26, 27
D-2100M	
Drawer Type	
Typical Applications and 50-Pos. Receptacle & Tab Housings	28
Dimensions (Mating and External), 50-Pos. Receptacle & Tab Housings	29
50-Pos. Board-mounting Tab Header (Horizontal)	30
Panel Mounting Screws (for 50-Pos. Receptacle & Tab Housings)	30
Screw Lock Type	
50-Pos. Receptacle and Tab Assemblies (with Screws)	31
D-2600 — Combination Power & Signal	
Introduction, Performance Characteristics and Technical Documents	32
Dimensions (Mating and External), 48-Pos. Receptacle Housing and Board-mounting Tab Header (Vertical)	33
D-3000 Series	
List of Products by Application	
D-3100S, D-3100M and D-3100D	34
D-3200S, D-3200M and D-3200T; D-3400F and D-3500D	35
Performance Specifications	36, 37
D-3 Contacts (Strip and Loose Piece)	38
Application Tooling (Hand Tools and Machines)	38-41
Keying Plug	41
Connector Panel-Mounting Hardware (L Fittings and Push Rivets)	42

Table of Contents (Continued)

D-3100S

Standard 1-Row Type

Typical Applications, Mating Combinations and Ordering Information	43
Keying and Typical Applications (Elevators)	44
Dimensions (Mating and External), Receptacle & Tab Housings and Board-mounting Tab Headers (Horizontal and Vertical)	45, 46

Standard SMT Type

Mating Combinations and Ordering Information	47
Dimensions (Mating and External), Receptacle Housings and Board-mounting Tab Headers (Horizontal and Vertical)	47, 48

D-3100D — Standard 2-Row Type

Typical Applications, Mating Combinations and Ordering Information	49
Dimensions (Mating and External), Receptacle & Tab Housings and Board-mounting Tab Headers (Horizontal and Vertical)	50, 51

D-3100M — Modular Type

Typical Applications and 6-Pos. Receptacle Housings & Tab Headers	52
Keying and Mating Combinations	53
Dimensions (Mating and External), 6-Pos. Receptacle Housing and 6-Pos. Board-mounting Tab Headers (Horizontal and Vertical)	54, 55

D-3200S

High Voltage Version of Standard D-3100S

Typical Applications, Mating Combinations and Ordering Information	56
Keying and Typical Application (Switching Regulator)	57
Dimensions (Mating and External), Receptacle & Tab Housings and Board-mounting Tab Headers (Horizontal and Vertical)	58, 59

SMT Type

Typical Applications and Receptacle Housings & 3-Pos. Tab Header	60
Dimensions (Mating and External), 3-Pos. Board-mounting Tab Header	61

D-3200M

Modular Type

Typical Applications and Ordering Information	62
Keying and Mating Combinations	63
Dimensions (Mating and External), Receptacle & Tab Housings and Board-mounting Tab Headers (Horizontal and Vertical)	64, 65

Drawer Type

Typical Applications, Mating Combinations and Ordering Information	66
Dimensions (Mating and External), 6-Pos. Receptacle & Tab Housings and 6-Pos. Board-mounting Tab Headers (Horizontal and Vertical)	67, 68

D-3200T — 3-Row Type

Typical Application and 9-Pos. Board-mounting Tab Headers, Dimensions (Mating and External) and Keying	69
---	----

D-3400F — Skyscraper Connectors

Typical Applications, Mating Combinations and Ordering Information	70
Dimensions (Mating and External), Receptacle Housings and Board-mounting Tab Headers (Horizontal)	71, 72

D-3500D — Sensor Connectors

Typical Applications, Mating Combinations and Ordering Information	73
Dimensions (Mating and External), Receptacle & Tab Housings and Board-mounting Tab Headers (Horizontal and Vertical)	74, 75

D-3700 — Connectors for Exclusive Use with Servomotors

Typical Applications, 6-Pos. Receptacle Connector Kits	76
Dimensions (Mating and External) and Optional Motor-side Tab Header	77

Table of Contents (Continued)

D-4000 Series

Introduction, Product Facts, Performance Characteristics and D-4 Contacts (Strip and Loose Piece) and Application Tooling	78
--	----

D-4200

Dimensions (Mating and External), Receptacle & Tab Housings and Board-mounting Tab Headers (Vertical)	79, 80
--	--------

D-5200 Series

List of Products by Application (D-5200S and D-5200M)	81
Performance Data and Specifications	82, 83
D-5 Contacts (Strip and Loose Piece) and Sequential Clip	84
Application Tooling (Extraction Tool, Hand Crimping Tool and Machine)	84, 85

D-5200S — Standard 1-Row Type

Typical Applications, Mating Combinations and Ordering Information	86
Keying and Servomotor/Servodriver Application	87
Dimensions (Mating and External), Receptacle & Tab Housings and Board-mounting Tab Headers (Horizontal, Vertical and Sequential)	88, 89

D-5200M — Modular Type

Typical Applications and Ordering Information	90
Keying and Mating Combinations	91
Dimensions (Mating and External), 4- and 6-Pos. Receptacle & Tab Housings and 4- and 8-Pos. Board-mount Tab Headers (Horizontal)	92, 93

D-5200M α — High Current Type

Typical Applications, Mating Combinations, Ordering Information and Keying	94
Dimensions (Mating and External), Receptacle Housings and Board-mounting Tab Header (Horizontal)	95, 96

DZ-5200 — Board-to-Board

Performance Characteristics, External Dimensions, and Receptacle Header (Vertical)	97
Tab Header (Horizontal)	98

D-5300 — Panel Mount Type

Introduction and Performance Characteristics	99
Dimensions (Mating and External), Panel Mount Receptacle & Tab Housing	100

AMP Dynamic with HTS Connectors

Introduction, Performance Characteristics and Contacts (D-2 and D-3)	101
D-2800, 30-Pos. Receptacle & Tab Housings	102
D-3800, 12-Pos. Receptacle & Tab Housings	102
HTS Modular Frames and Metal Housings (Sizes 3, 4, 6 and 8)	104
HTS Cable Gland Fittings (Plastic and Metal)	105

Power Connector — Board-to-Board

Specifications, Typical Applications and Ordering Information	106
Dimensions (Mating and External)	107

Dyna-Tap Connectors

D-3100, 18-Pos. Introduction, Applications and Performance Characteristics	108
Dimensions (Mating and External), 18-Pos. Tab Housing and 6-Pos. Receptacle Housing	109
D-3200, 24-Pos. Introduction and Performance Characteristics	110
Dimensions (Mating and External), 24-Pos. Tab Housing and 4-Pos. Receptacle Housing	111

Dyna-Clamp Kit

Introduction, Applications and Performance Characteristics	112
Dimensions (Mating and External), 3-Pos. Cable Clamp Kit and Mating Connectors	113

Part Number Index	114, 115
-----------------------------	----------

Global Contacts	119
---------------------------	-----

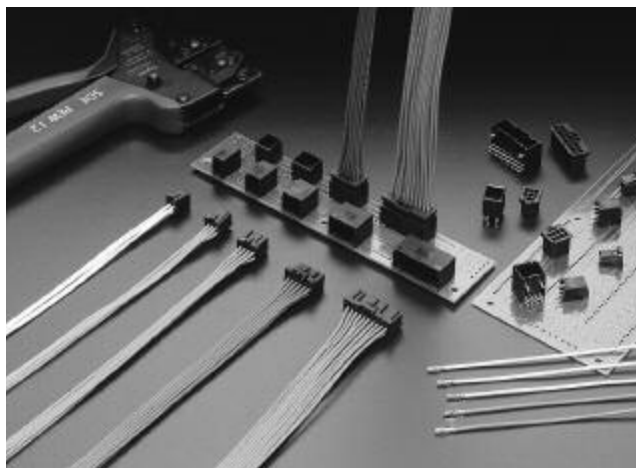
D-1000 Series (Wire-to-Board, Wire-to-Panel and Wire-to-Wire)

Product Facts

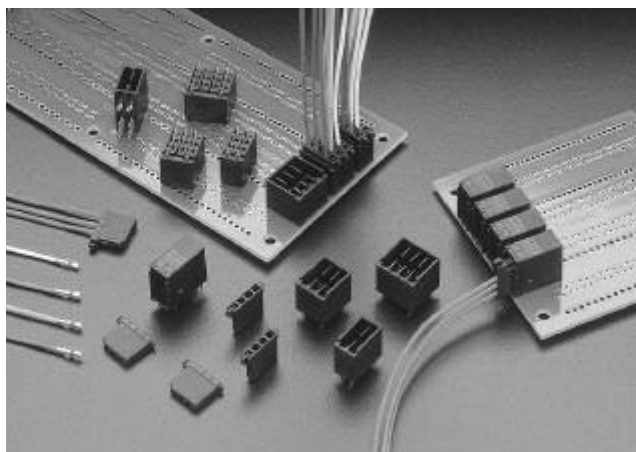
- Header and tab connectors have enough length from the tip of contact to top of housing to help prevent contact from bending when receptacle mates to tab connector.
- D-1000 has housing lance structure. Without contact lance, it is expected to avoid contact lance broken in terminal process handling
- 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 ¹ (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 (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 (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 (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 (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.

¹ 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 (AWG 22 wire)	Pos. :5A (AWG 18 wire)	Pos. :5A (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 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

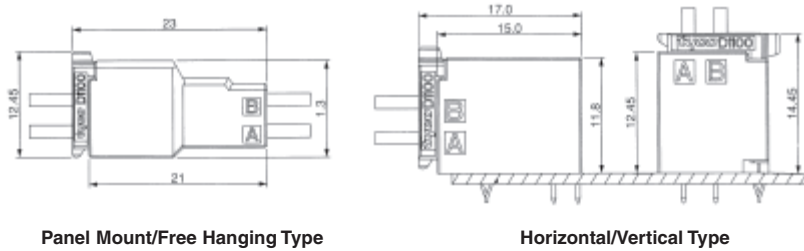
CSA Report Number — Pending Approval

TUV License Number — Pending Approval

D-1000 Series (Continued)

D-1100D

Mating Dimensions



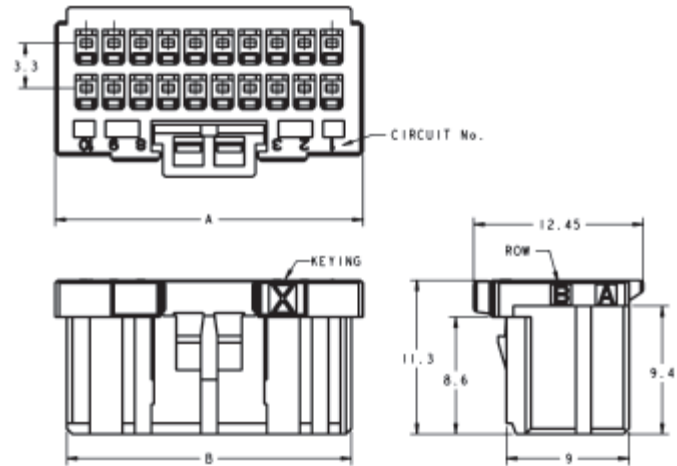
Panel Mount/Free Hanging Type

Horizontal/Vertical Type

External Dimensions

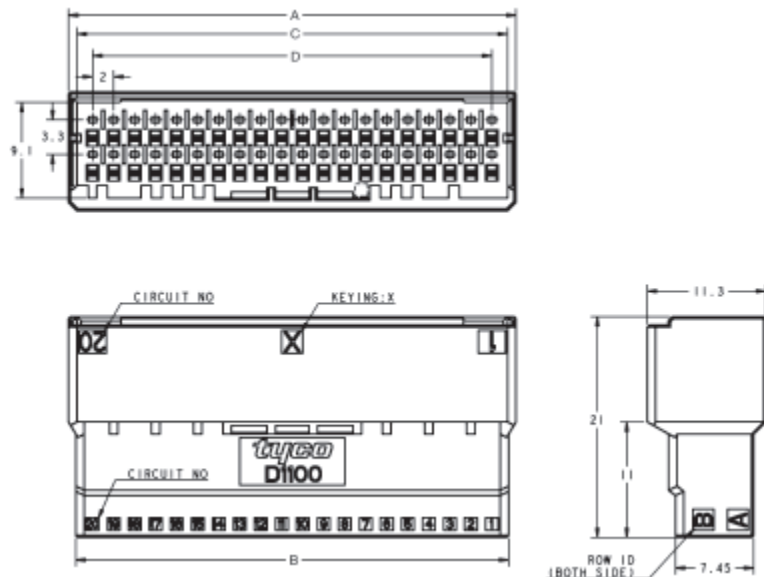
Receptacle Housing

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

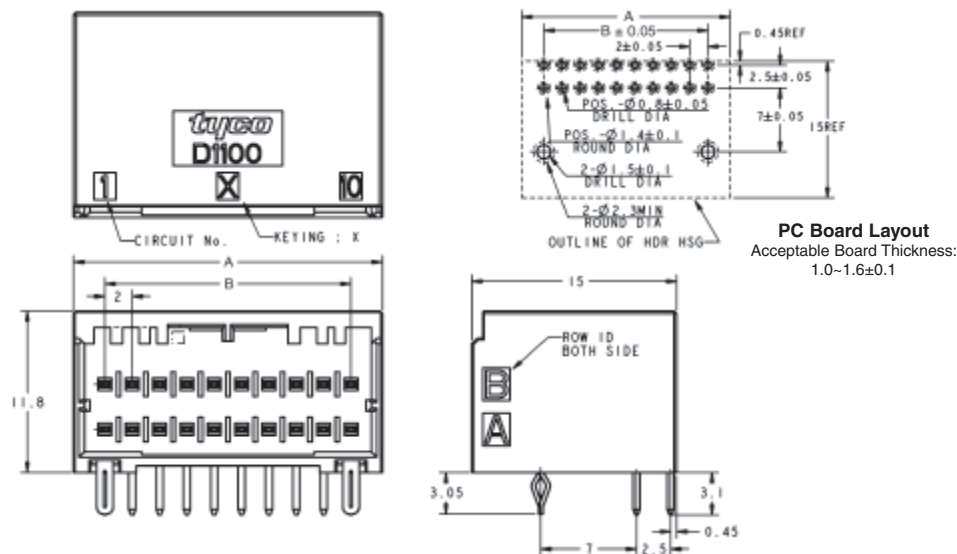


No. of Pos.	Part No.		Dimensions			
	Panel Mount Type	Free Hanging Type	A	B	C	D
22	1-1903128-1	1-1903127-1	24.6	23.2	23.0	20.0
26	1-1903128-3	1-1903127-3	28.6	27.2	27.0	24.0
28	1-1903128-4	1-1903127-4	30.6	29.2	29.0	26.0
32	1-1903128-6	1-1903127-6	34.6	33.2	33.0	30.0
34	1-1903128-7	1-1903127-7	36.6	35.2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

D-1000 Series (Continued)

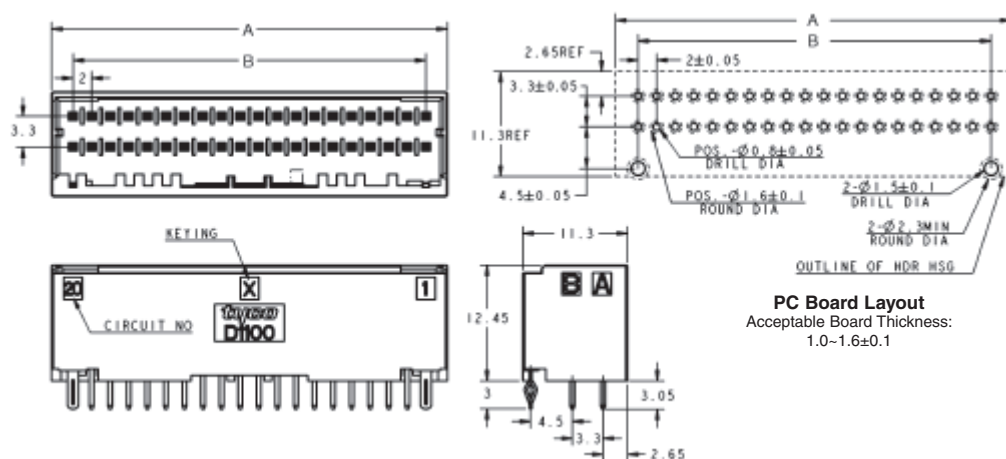
D-1100D

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)

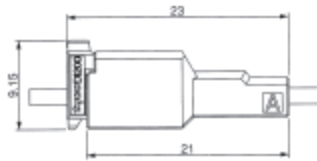


No. of Pos.	Plating	Color	Part No.	Dimensions	
				A	B
22	Gold	Black	1-1827872-1	24.6	20.0
	Tin	Yellow	3-1871056-1		
26	Gold	Black	1-1827872-3	28.6	24.0
	Tin	Natural	1-1871056-3		
28	Gold	Black	1-1827872-4	30.6	26.0
	Tin	Natural	1-1871056-4		
30	Gold	Black	1-1827872-5	32.6	28.0
	Tin	Black	1-1871315-5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

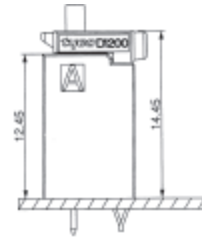
D-1000 Series (Continued)

D-1200S

Mating Dimensions



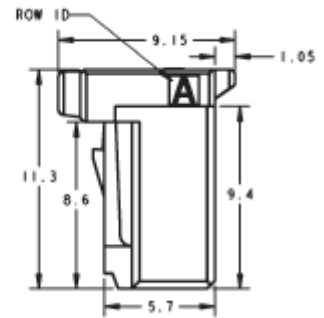
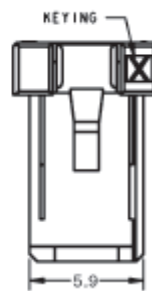
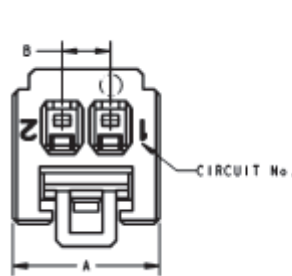
Free Hanging Type



Vertical Type

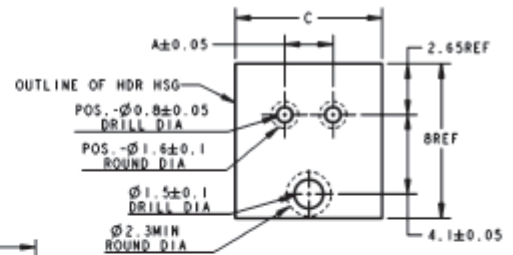
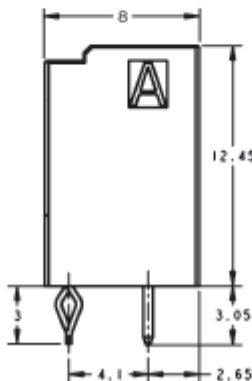
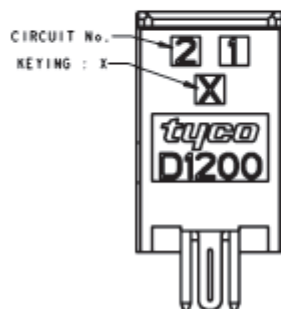
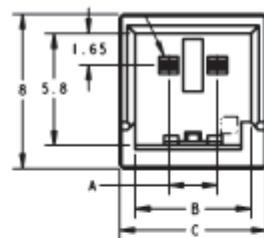
Dimensions

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

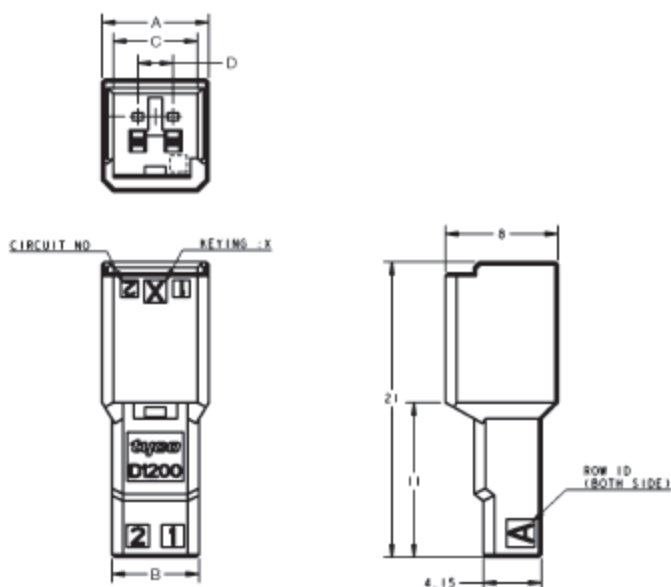
No. of Pos.	Keying	Part No.	Dimensions		
			A	B	C
2	X	1-1871468-2	2.5	6.0	7.6
	Y	—	—	—	—

D-1000 Series (Continued)

D-1200S

Tab Housing

Free Hanging Type

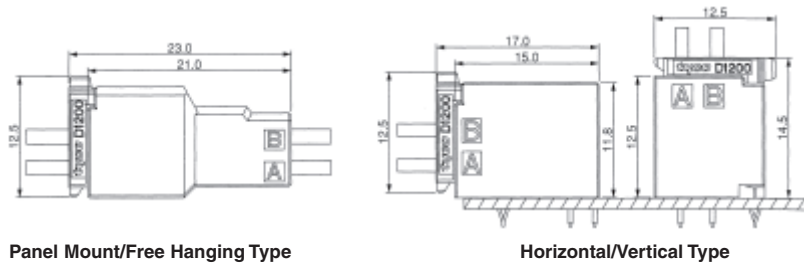


No. of Pos.	Keying	Part No.	Dimensions			
		Free Hanging Type	A	B	C	D
2	X	1-1903129-2	7.6	6.2	6.0	2.5
	Y	—	—	—	—	—

D-1000 Series (Continued)

D-1200D

Mating Dimensions



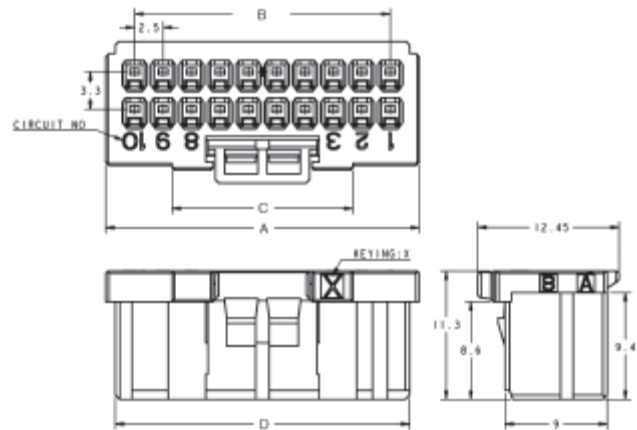
Panel Mount/Free Hanging Type

Horizontal/Vertical Type

Dimensions

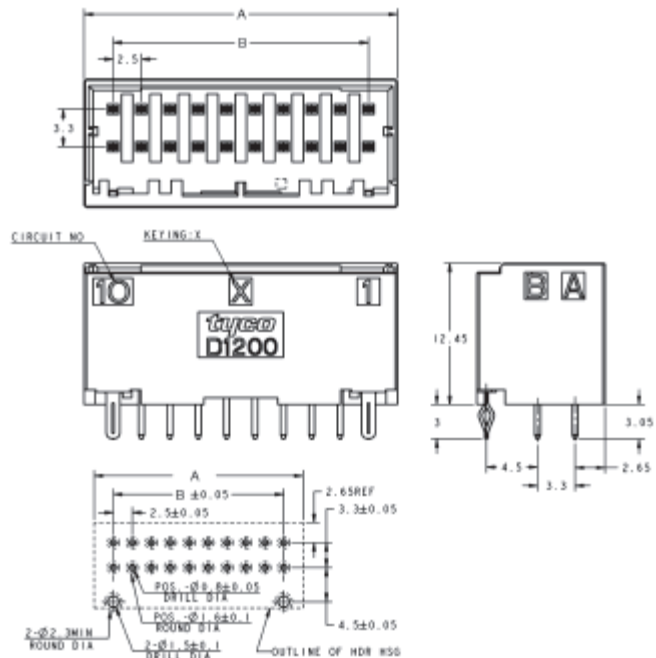
Receptacle Housing

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		



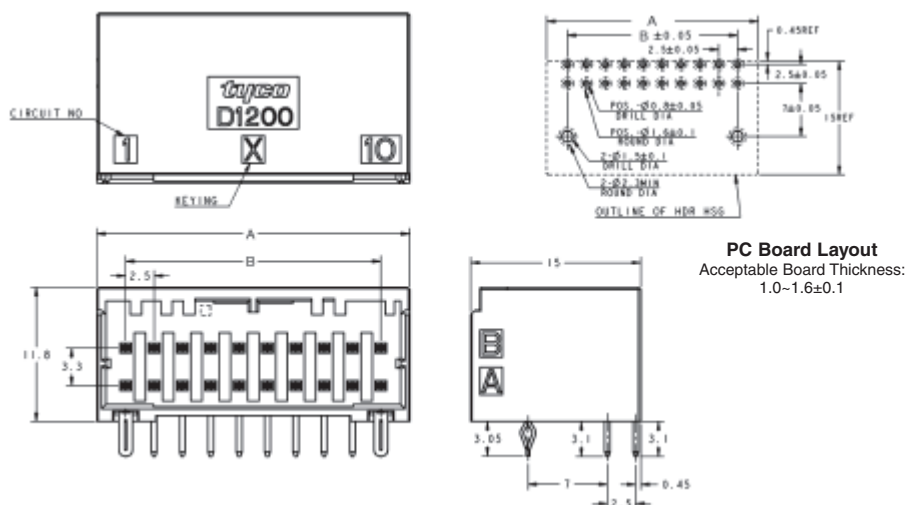
PC Board Layout

Acceptable Board Thickness:
1.0-1.6±0.1

D-1000 Series (Continued)

D-1200D

Board Mount Tab Header (Horizontal Type)

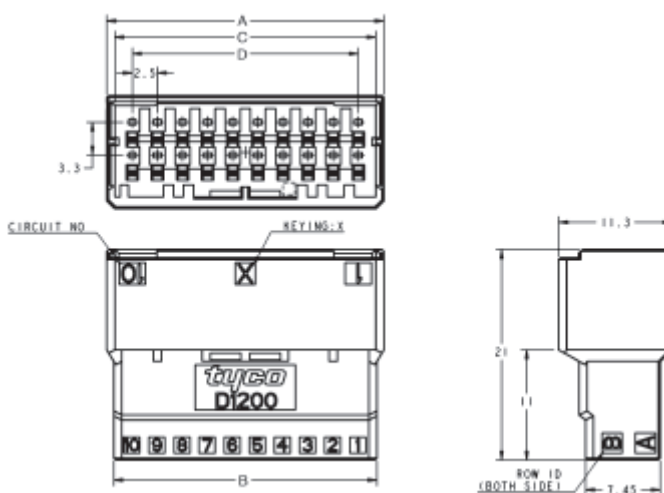


No. of Pos.	Part No.	Dimensions	
		A	B
4	1-1827876-2	7.6	2.5
	1-1871673-2*		
6	1-1827876-3	10.1	5.0
8	1-1827876-4	12.6	7.5
12	1-1827876-6	17.6	12.5
	1-1871673-6*		
20	1-1827876-0	27.6	22.5

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

Tab Housing

Panel Mount Type/ Free Hanging Type



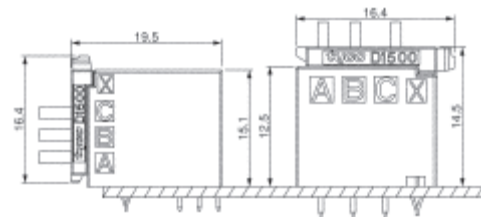
No. of Pos.	Part No.		Dimensions			
	Panel Mount Type	Free Hanging Type	A	B	C	D
4	1-1903131-2	1-1903130-2	7.6	6.2	6.0	2.5
6	1-1903131-3	1-1903130-3	10.1	8.7	8.5	5.0
8	1-1903131-4	1-1903130-4	12.6	11.2	11.0	7.5
12	1-1903131-6	1-1903130-6	17.6	16.2	16.0	12.5
20	1-1903131-0	1-1903130-0	27.6	26.2	26.0	22.5

Please contact Technical Support about Y-Key.

D-1000 Series (Continued)

D-1500T

Mating Dimensions

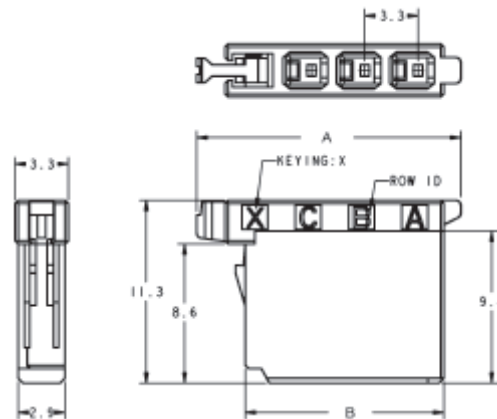


Horizontal/Vertical Type

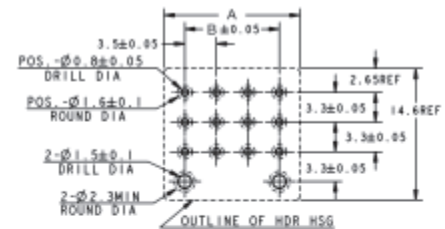
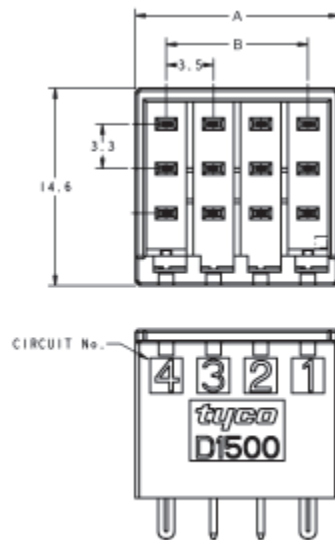
Dimensions

Receptacle Housing

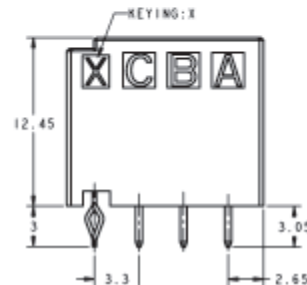
No. of Pos.	Part No.	Dimensions	
		A	B
3	1-1827579-1	16.35	12.3



Board Mount Tab Header (Vertical Type)



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

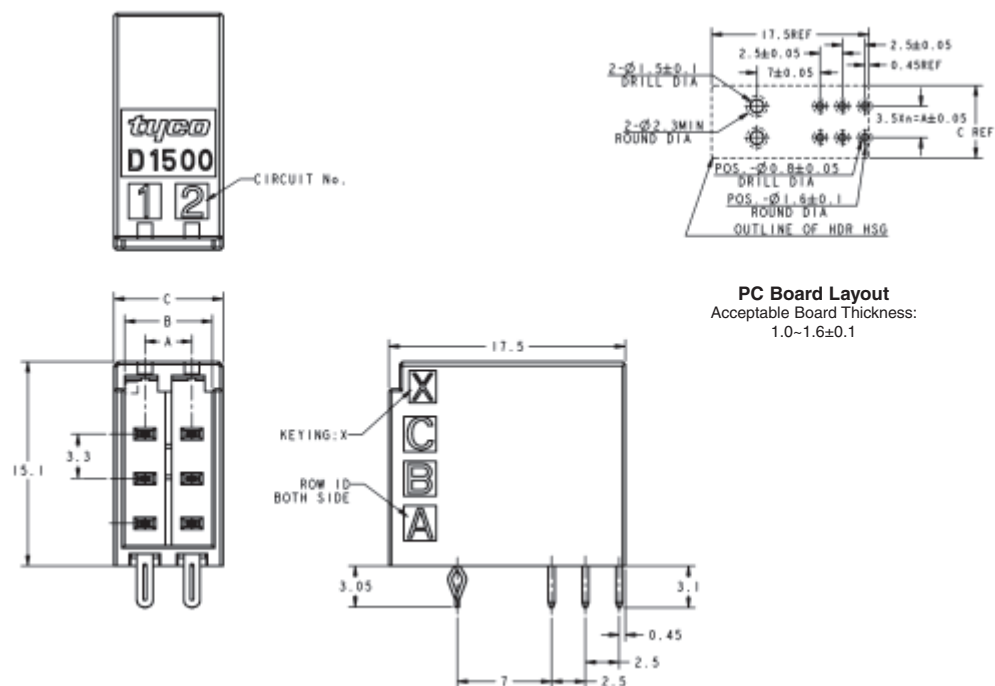


No. of Pos.	Part No.	Dimensions	
		A	B
6	1-1827581-2	8.1	3.5
9	1-1827581-3	11.6	7.0
12	1-1827581-4	15.1	10.5

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

D-2000 Series (Wire-to-Board, Wire-to-Panel and Wire-to-Wire)

List of Products by Application

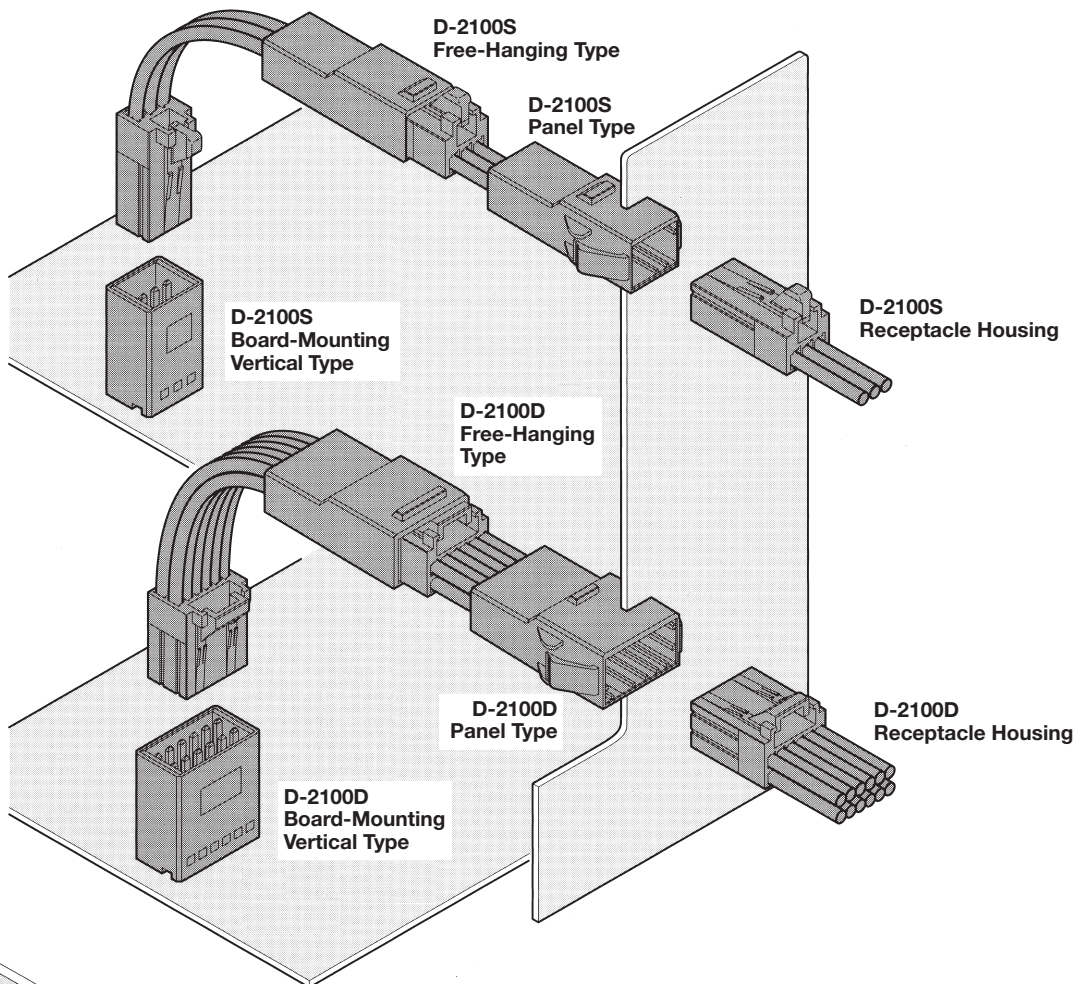
D-2000 Series connectors are the next smallest in Dynamic Series, yet they can meet requirements of connectors for most industrial applications. They can be used

mainly for signal applications. Signal lines under 250 V are of 2.5 mm pitch, which can accept 18 AWG wires. (5 A max. per position)

D-2000 Series have several unique characteristics such as center-lock method for effective use of PCB properties, contact-entrance method for low profile shapes, and others.

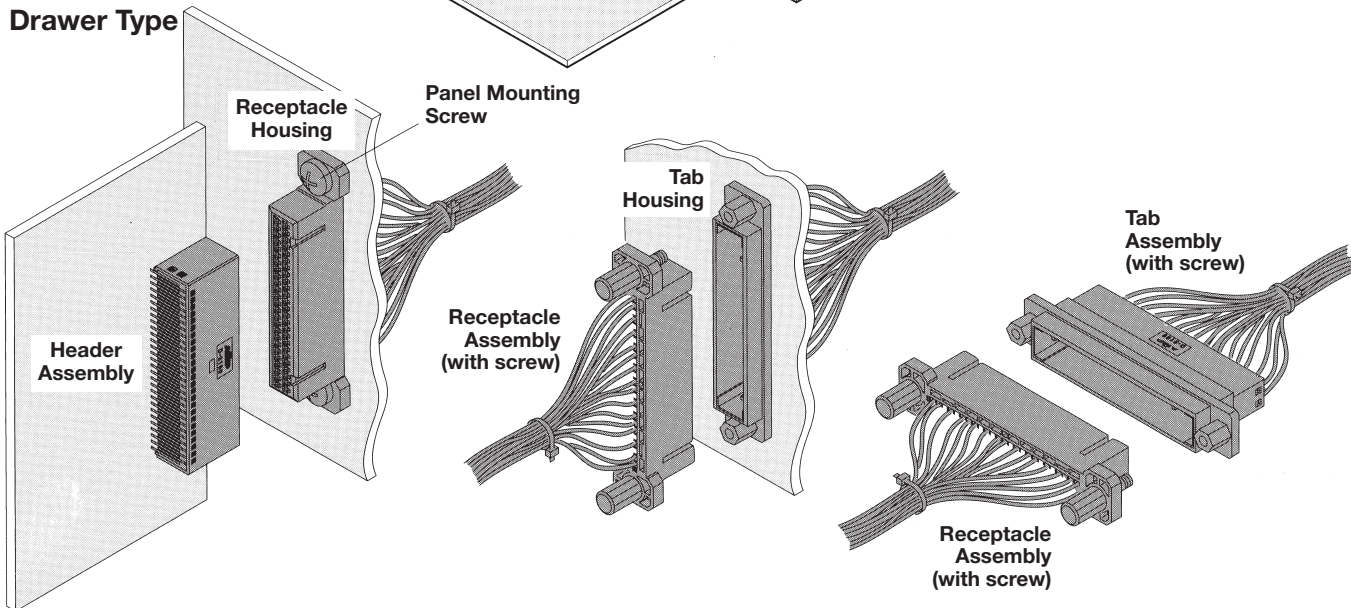
D-2000 Series

D-2100S 1-Row Type



D-2100D 2-Row Type

D-2100M Drawer Type



D-2000 Series (Continued)

Performance Specifications

Item	Pitch	2.5mm
Voltage Rating		250 VAC
Current Rating		1-position : 5A 3-position : 5A 6-position : 5A 8-position : 4.5A 12-position : 4A 20-position : 3.2A (when using #18 AWG wire)
Contact Resistance		10 mΩ max.
Dielectric Withstanding Voltage		1,500 V (1minute)
Operating Temperature		-55°~+105°C

*When connectors are used singly.

Material and Finish

Description	Material	Finish
Receptacle contact Tab contact	Copper alloy	Contact area 0.38 μm min. gold plating underplated nickel
Tab post	Copper alloy	Contact area 0.38 μm min. gold plating — Contact tail tin plated underplated nickel
Housing	UL94V-0 rated glass filled polyester (PBT)	

D-2000 Series (Continued)

Performance Specifications

(Continued)

Specifications and Instruction Sheet

Instruction Sheet-Hand Tools

Specifications and Instruction Sheet

Product Specification	108-5619, 108-5659 (Drawer Type)
Testing Report	501-5261
Application Specification	114-5258
Instruction Sheet-Extraction Tool	411-5900

Instruction Sheet-Manual Tool

Tool Part No.	IS No.
91576-1	408-8547
91595-1	408-8547

*Remember to obtain Instruction Sheets when you choose to use these tools.

Extraction Tool **Part Number: 1276716-1 (411-5900)**

Keying Plug **Part Number: 641994-1**

Tab Contact Cutting Tool **Part Number: 919041-2**

Safety Specifications

The safety specifications listed below are approved on specific part numbers. Contact our Sales Department to check if the part numbers you use are approved or not. Keep in mind that there are instances where values differ from those given by Tyco Electronics Specifications.

Series	D-2100 Series			D-2100M Drawer Type		
	Voltage Rating	Current Rating	Temperature Rating	Voltage Rating	Current Rating	Temperature Rating
Specifications 108-5619 (Standard) 108-5659 (Drawer Type)	250 V	5A (1 position)	-55° to +105°C	250 V	2.6A (with #20 AWG) 50 position	-55° to +105°C
UL File No. E28476	Determined by requirements of equipment in use.	Determined by requirements of equipment in use.	—			
CSA Report No. LR7189	250 V	#24~28 AWG : 3.3A #18~22 AWG : 5A	—			
TÜV License No. R 9950679	125 V	5A	-55° to +105°C			

D-2000 Series (Continued)

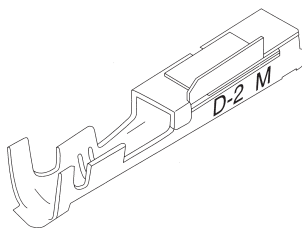
D-2 Contact and Application Tooling

Crimp Type

(Gold plating : 0.38 µm)

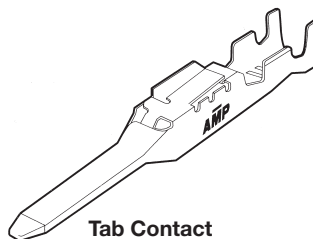
Receptacle Contact

(Used on Receptacle Housing)



Tab Contact

(Used on Tab Housing)



Wire Range		Wire Ins. Diameter	Wire Range Mark	Contact Part Number*			Application Tooling Part Number	
AWG	mm²			Receptacle Contact		Tab Contact	Mini-Applicator**	Hand Tool
28	0.08	0.88~1.5	S	ST.	1318106-1	1318110-1	**	—
26	0.12			LP.	1318108-1	1318112-1	**	91576-1
24	0.20							
22	0.30	1.11~1.87	M	ST.	1318105-1	1318109-1	**	—
20	0.50			LP.	1318107-1	1318111-1	**	91595-1
18	0.85							

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

**Mini-Applicators are for use with automachines. (For part numbers, contact Technical Support.)

Application Tooling

AMP-3K/40 and AMP-5K/40 Terminating Machines

The AMP-3K/40 and AMP-5K/40 Terminators are designed for customers that require the increased output and quality of a semiautomatic machine at a competitive price. By incorporating the most commonly requested features as standard and offering a long list of optional equipment, these terminators offer flexibility to meet the specific needs of various applications at the lowest possible cost.

- 3,000 lb. [1361 kg] max. crimp force (AMP-3K/40)
- 5,000 lb. [2268 kg] max. crimp force (AMP-5K/40)
- Toolless removal of applicators and guards
- Jog capability
- Quiet, fast operation — 80/76 dBA and cycle time less than 0.400 seconds
- Accepts Heavy Duty Mini style applicators
- Wide range of optional equipment such as toolless precision crimp height adjust, batch counter, CQM capability and work light
- Order Catalog 1654856 for specifications and part numbers



Hand Tool

The crimping section incorporates Straight Action construction for improved reliability as with automachine.



Part No. :

See the chart above.

Minimum order quantity : 1


Mini-Applicator

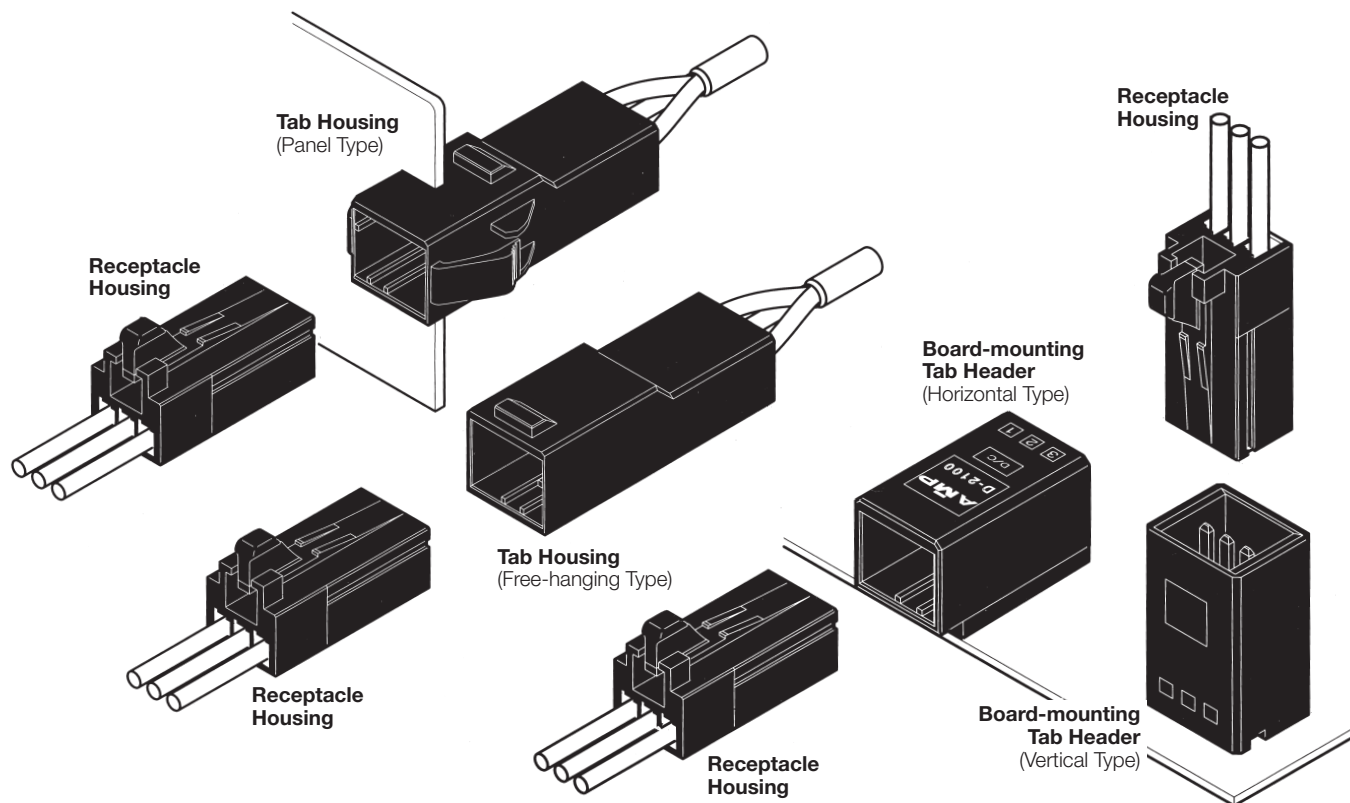
Part Number : Contact Technical Support

Minimum order quantity : 1

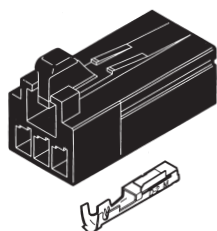
D-2000 Series (Continued)

D-2100S

Appearance Board mounting pitch: 2.5mm
Dielectric Withstanding Voltage: 1,500V (for one minute)
Voltage Rating: 250 VAC



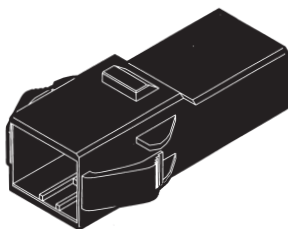
Receptacle Housing



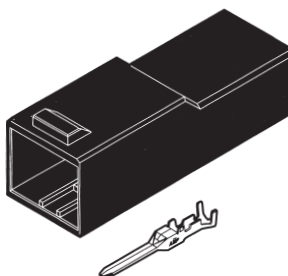
Receptacle Contact

Tab Housing

(Panel Type)



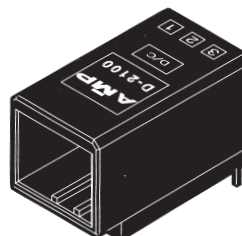
(Free-hanging Type)



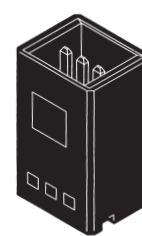
Tab Contact.....For each line of contacts, refer to the appropriate pages.

Board-mounting Tab Header

(Horizontal Type)



(Vertical Type)



No. of Pos.	Keying	Receptacle Housing	Tab Housing		Board-mounting Tab Header	
			Panel Type	Free-hanging Type	Horizontal Type	Vertical Type
3	X	1-1318120-3	1-1318116-3	1-1318117-3	1376135-1	1318123-1
	Y	2-1318120-3	2-1318116-3	2-1318117-3	1376135-2	1318123-2
	X	1-1473074-3*	—	—	—	—

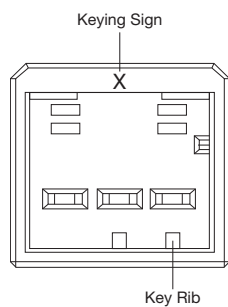
*Drawer Type

D-2000 Series (Continued)

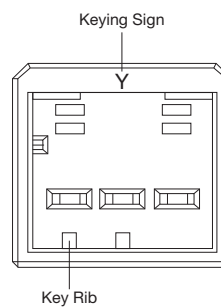
D-2100S (Continued)

Keying

Keying is provided with this product (D-2100S) for use in helping prevent misinsertion.



X-Type

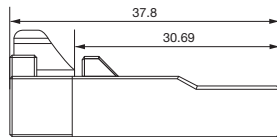


Y-Type

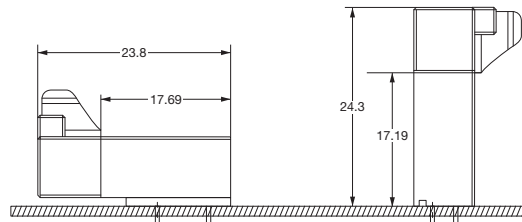
D-2000 Series (Continued)

D-2100S (Continued)

Mating Dimensions



Panel / Free-hanging Type



Horizontal Type

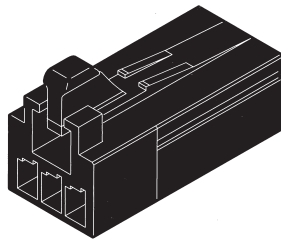
Vertical Type

External Dimensions

Receptacle Housing

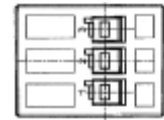
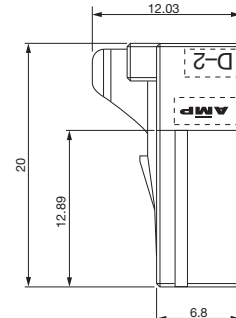
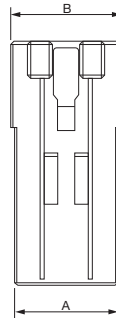
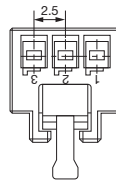
Mating Tab Connector
Part Number:

- 1318116-□
- 1318117-□
- 1318123-□
- 1376135-□



No. of Pos.	Part Number of Receptacle Housing	Dimensions	
		A	B
3	□-1318120-3	8.3	8.9
	1-1473074-3*	—	11.8

□ is for the following key codes: 1- (X-Type), 2- (Y-Type)
*Drawer Type



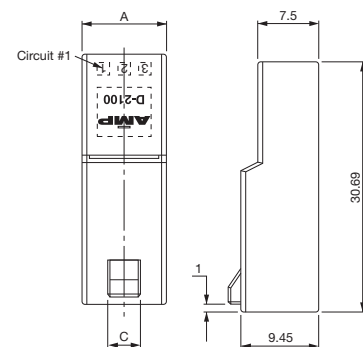
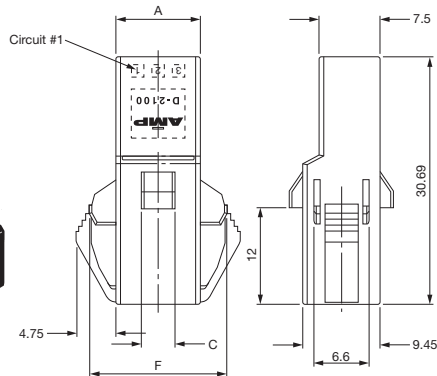
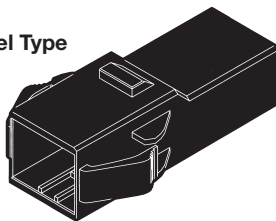
Drawer Type

Tab Housing

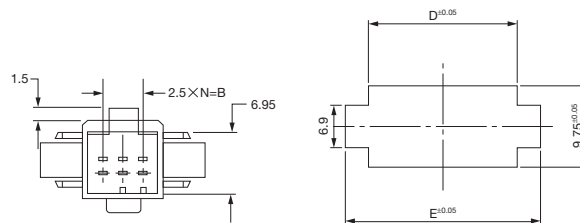
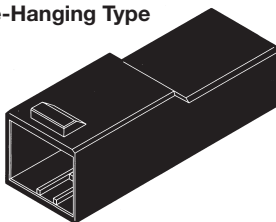
Mating Receptacle Housing

Part Number:
□-1318120-□
1-1473074-3

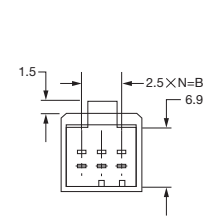
Panel Type



Free-Hanging Type



Panel Cutout



No. of Pos.	Part Number of Tab Housing		Dimensions					
	Panel Type	Free-hanging Type	A	B	C	D**	E**	F**
3	□-1318116-3	□-1318117-3	10.2	5	4	10.5	16.5	16.38

**Applies only for panel type. □ is for the following key codes: 1- (X-Type), 2- (Y-Type)

D-2000 Series (Continued)

D-2100S (Continued)

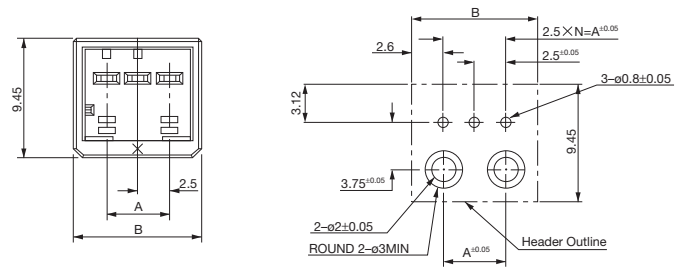
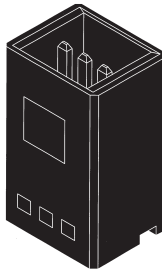
Board-mounting Tab Header (Vertical Type)

Mating Receptacle Housing

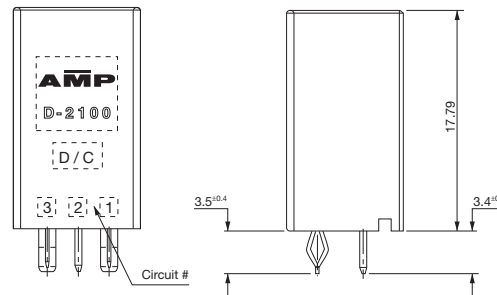
Part Number:

□-1318120-□

1-1473074-3



PC Board Layout
Acceptable Board Thickness :
1.6±0.3



No. of Pos.	Part Number	Dimensions	
		A	B
3	1318123-□	5	10.2

□ is for the following key codes: -1 (X-Type), -2 (Y-Type)

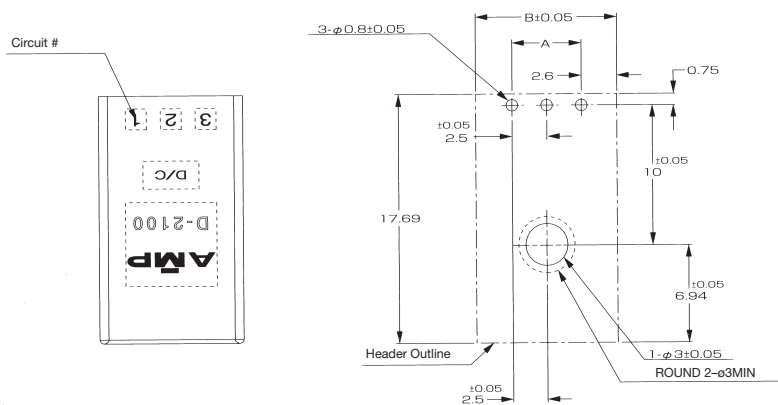
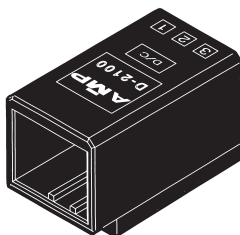
Board-mounting Tab Header (Horizontal Type)

Mating Receptacle Housing

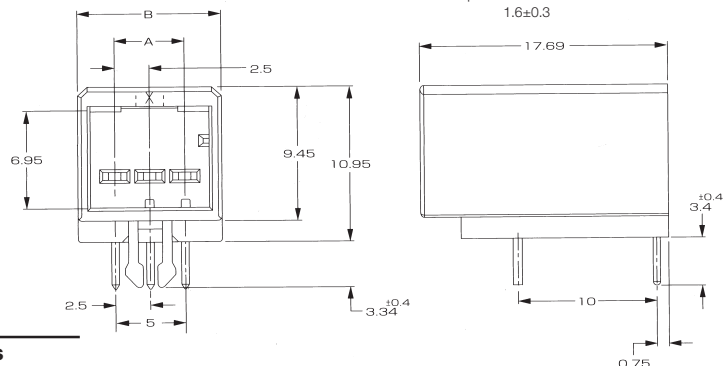
Part Number:

□-1318120-□

1-1473074-3



PC Board Layout
Acceptable Board Thickness :
1.6±0.3



No. of Pos.	Part Number	Dimensions	
		A	B
3	1376135-□	5	10.2

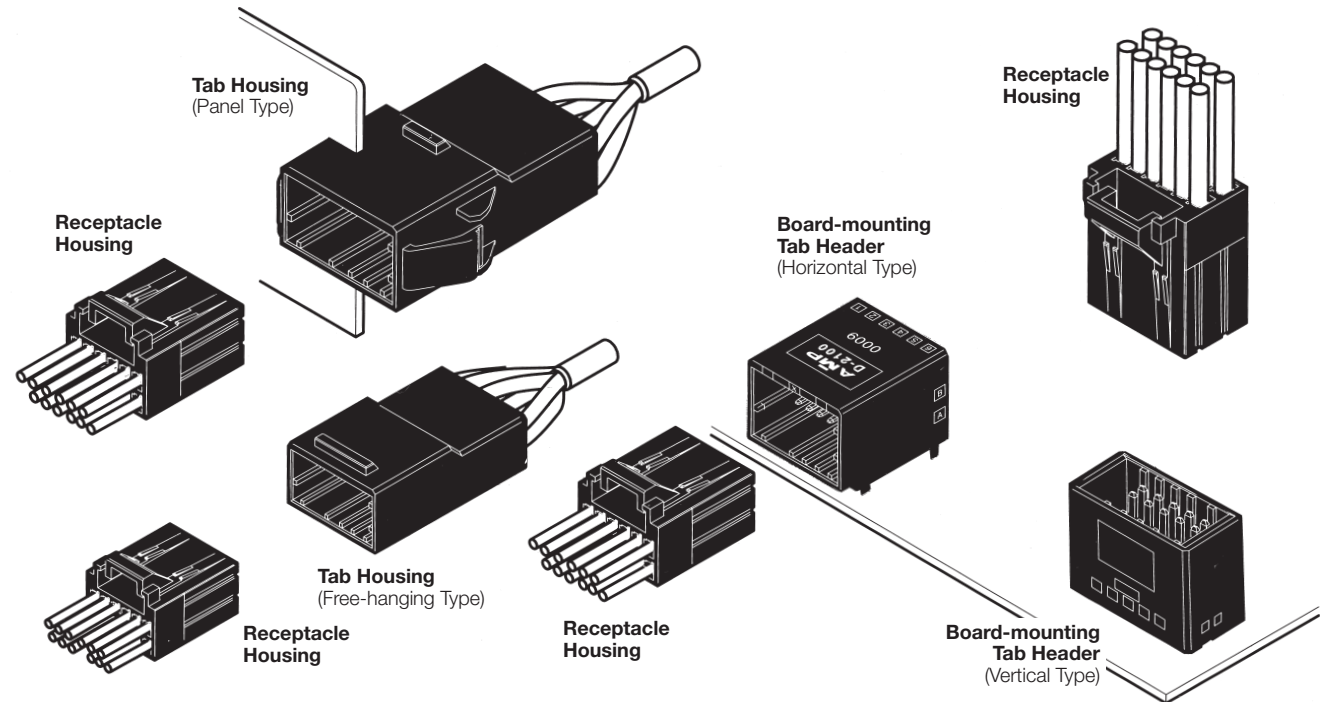
□ is for the following key codes: -1 (X-Type), -2 (Y-Type)

D-2000 Series (Continued)

D-2100D

Appearance

Board mounting pitch: 2.5mm
Dielectric Withstanding Voltage: 1,500V (for one minute)
Voltage Rating: 250 VAC



Receptacle Housing

Tab Housing

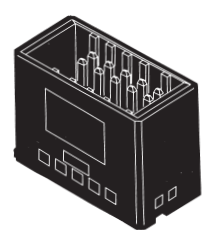
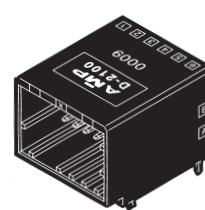
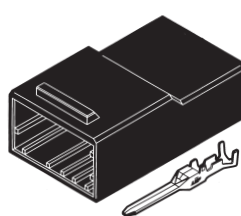
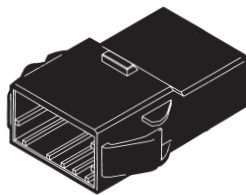
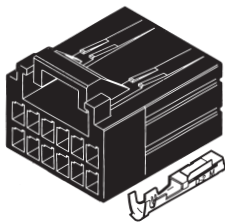
Board-mounting Tab Header

(Panel Type)

(Free-hanging Type)

(Horizontal Type)

(Vertical Type)



Receptacle Contact

Tab Contact.....For each line of contacts, refer to the appropriate pages.

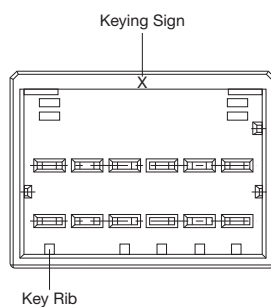
No. of Pos.	Keying	Part Number of Receptacle Housing	Part Number of Tab Housing		Part Number of Board-mounting Tab Header	
			Panel Type	Free-hanging Type	Horizontal Type	Vertical Type
6	X	1-1318119-3	1-1318114-3	1-1318115-3	1376136-1	1318124-1
	Y	2-1318119-3	2-1318114-3	2-1318115-3	1376136-2	1318124-2
8	X	1-1318119-4	1-1318114-4	1-1318115-4	1376009-1	1318125-1
	Y	2-1318119-4	2-1318114-4	2-1318115-4	1376009-2	1318125-2
12	X	1-1318118-6	1-1318114-6	1-1318115-6	1376020-1	1318126-1
	Y	2-1318118-6	2-1318114-6	2-1318115-6	1376020-2	1318126-2
	Z	3-1318118-6	—	—	—	1318126-3
16	X	1-1318118-8	—	—	—	1747994-1
	Y	2-1318118-8	—	—	—	1747994-2
20	X	1-1318118-9	1-1318114-9	1-1318115-9	1376137-1	1318127-1
	Y	2-1318118-9	2-1318114-9	2-1318115-9	1376137-2	1318127-2

D-2000 Series (Continued)

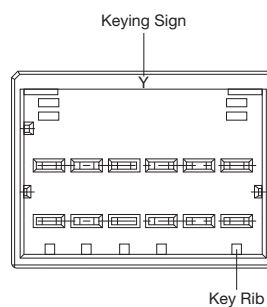
D-2100D (Continued)

Keying

Keying is provided with this product (D-2100D) for use in helping prevent misinsertion.



X-Type

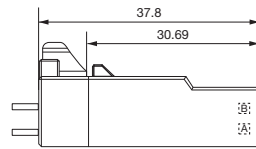


Y-Type

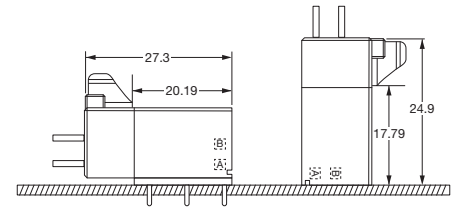
D-2000 Series (Continued)

D-2100D (Continued)

Mating Dimensions



Panel / Free-hanging Type



Horizontal Type

Vertical Type

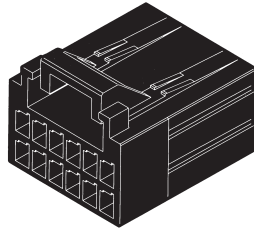
External Dimensions

Receptacle Housing

Mating Tab Connector

Part Number:

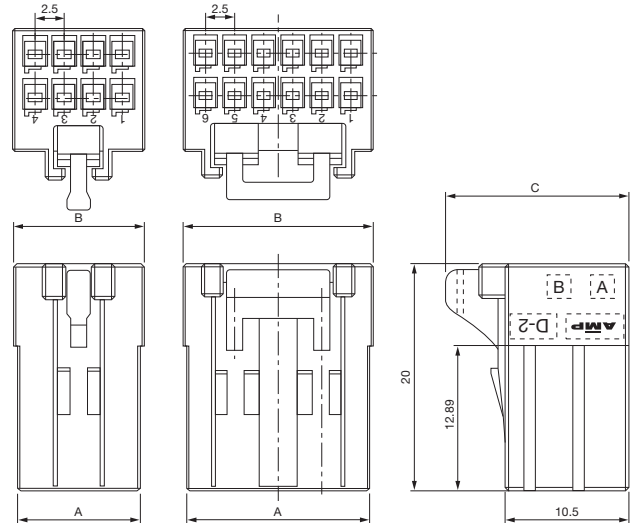
- 1318114-□ □-1376136-□
- 1318115-□ □-1376009-□
- 1318124-□ □-1376020-□
- 1318125-□ □-1376137-□
- 1318126-□ □-1747994-□
- 1318127-□



No. of Pos.	Part Number of Receptacle Housing	Dimensions		
		A	B	C
6	□-1318119-3	8.3	8.9	15.8
8	□-1318119-4	10.8	11.4	15.8
12	□-1318118-6	15.8	16.4	14.8
16	□-1318118-8	20.8	21.4	14.8
20	□-1318118-9	25.8	26.4	14.8

□ is for the following key codes:

1- (X-Type), 2- (Y-Type), 3- (Z-Type - Only 12 position)



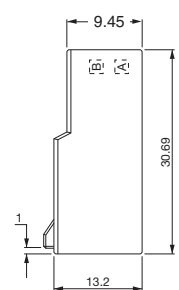
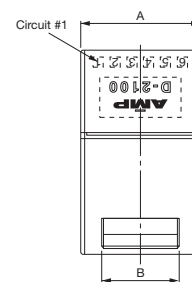
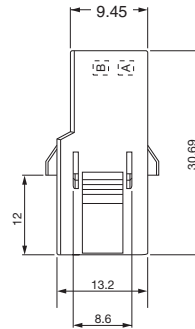
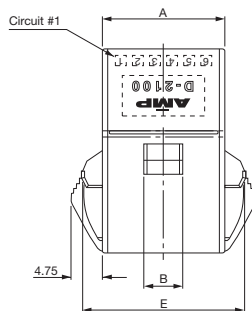
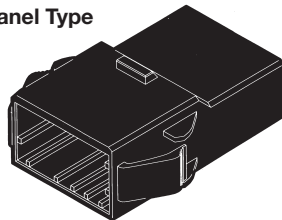
■ Tab Housing

Mating Receptacle Housing

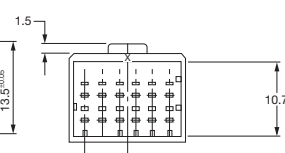
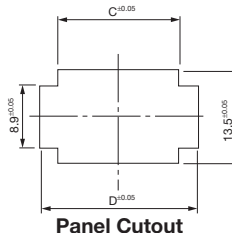
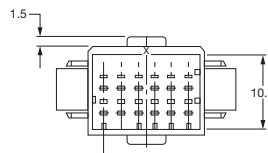
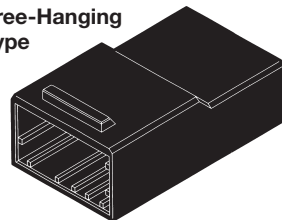
Part Number:

- 1318119-□ □-1318118-□

Panel Type



Free-Hanging Type



Panel Cutout

No. of Pos.	Part Number of Tab Housing		Dimensions				
	Panel Type	Free-hanging Type	A	B	C**	D**	E**
6	□-1318114-3	□-1318115-3	10.2	4	10.5	16.5	16.38
8	□-1318114-4	□-1318115-4	12.7	4	13	19.0	18.88
12	□-1318114-6	□-1318115-6	17.7	11.5*	18	24.0	23.88
20	□-1318114-9	□-1318115-9	27.7	11.5*	28	34.0	33.88

**Applies only for panel type. *The dimension "B" for panel type is 6.0mm.

□ is for the following key codes: 1- (X-Type), 2- (Y-Type)

D-2000 Series (Continued)

D-2100D (Continued)

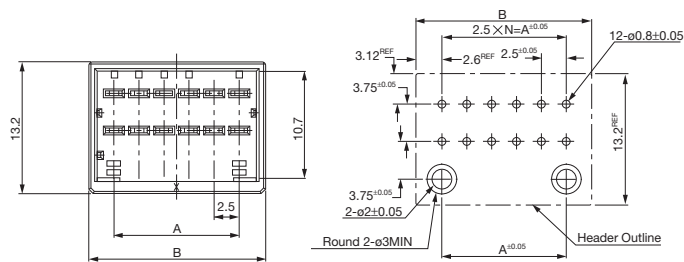
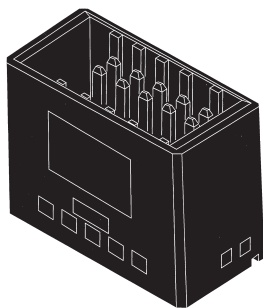
Board-mounting Tab Header (Vertical Type)

Mating Receptacle Housing

Part Number:

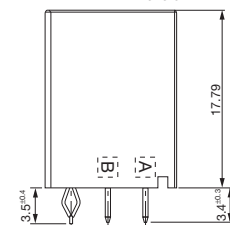
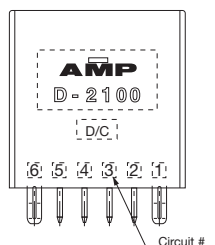
☐-1318119-☐

☐-1318118-☐



PC Board Layout

Acceptable Board Thickness :

 1.6 ± 0.3 

No. of Pos.	Part Number	Dimensions	
		A	B
6	1318124-□	5	10.2
8	1318125-□	7.5	12.7
12	1318126-□	12.5	17.7
16	1747994-□	17.5	22.7
20	1318127-□	22.5	27.7

□ is for the following key codes:
-1 (X-type), -2 (Y-Type)

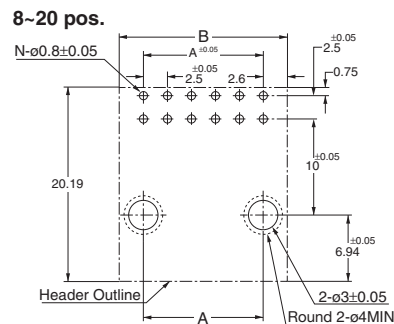
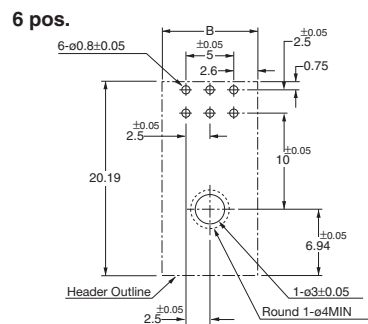
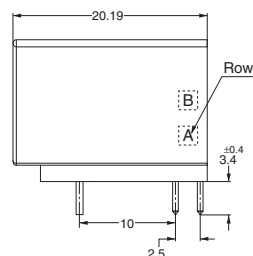
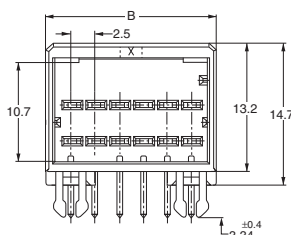
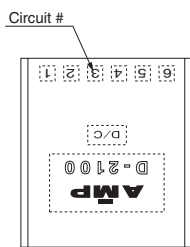
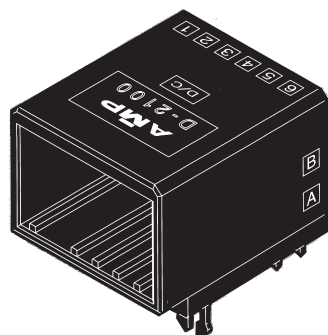
Board-mounting Tab Header (Horizontal Type)

Mating Receptacle Housing

Part Number:

☐-1318119-☐

☐-1318118-☐



PC Board Layout

Acceptable Board Thickness : 1.6 ± 0.3

No. of Pos.	Part Number	Dimensions	
		A	B
6	1376136-□	—	10.2
8	1376009-□	7.5	12.7
12	1376020-□	12.5	17.7
20	1376137-□	22.5	27.7

□ is for the following key codes:
-1 (X-type), -2 (Y-Type)

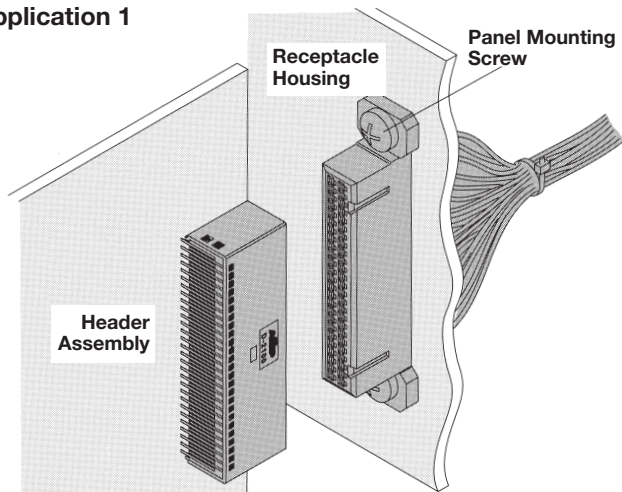
D-2000 Series (Continued)

D-2100M Drawer Type

Appearance

Board mounting pitch : 2.5mm
Dielectric Withstanding Voltage : 2.3kV (wire-to-wire type), 1.5kV (wire-to-board type)
Current rating : 2.6A (with 20 AWG, 50 pos.)

Application 1

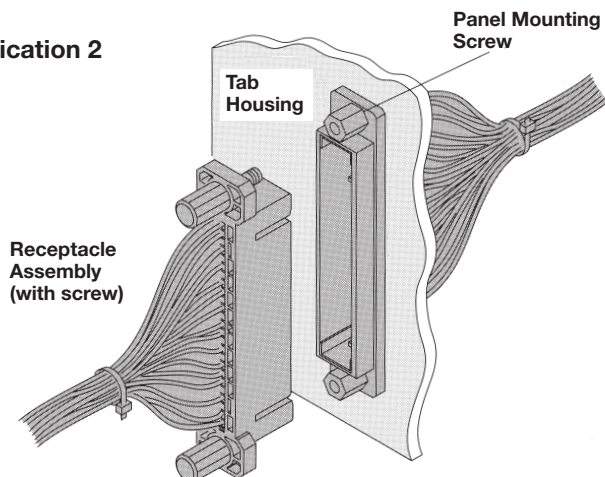


Suitable for an application where the receptacle side is drawer-able and the tab side is fixed.

*The receptacle housing is fixed on the panel with fixed screws.

	Part Number
Receptacle Housing (50 Pos.)	1318577-1
Panel Mounting Screw	900167-1
Header Assembly (50 Pos.)	1318579-1

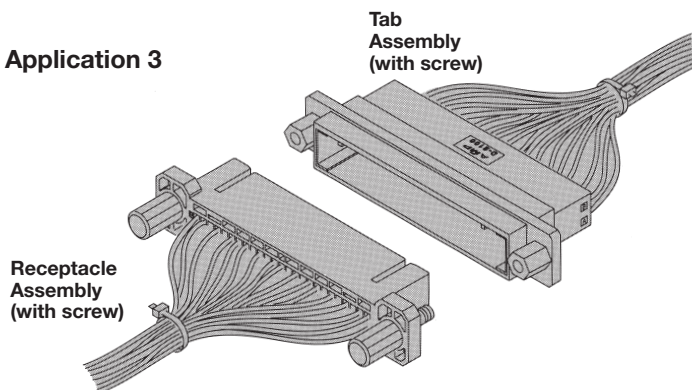
Application 2



The tab housing is fixed on the panel. The receptacle assembly is mated by turnable jackscrews. Can be used as a wire-to-wire connector with a panel or a bulkhead.

	Part Number
Receptacle Assembly (with screw) (50 Pos.)	1376072-2
Panel Mounting Screw	1376059-1
Tab Housing (50 Pos.)	1318578-2

Application 3



Can be used as a wire-to-wire connector.
The tab and receptacle assemblies are mated with two jackscrews on both sides.

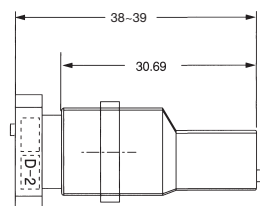
	Part Number
Receptacle Assembly (with screw) (50 Pos.)	1376072-2
Tab Assembly (with screw) (50 Pos.)	1376073-2

Product Specification: 108-5659

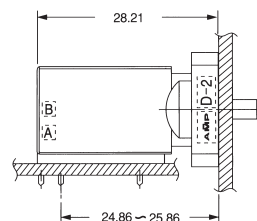
D-2000 Series (Continued)

D-2100M Drawer Type (Continued)

Mating Dimensions



Panel/Free-Hanging Type

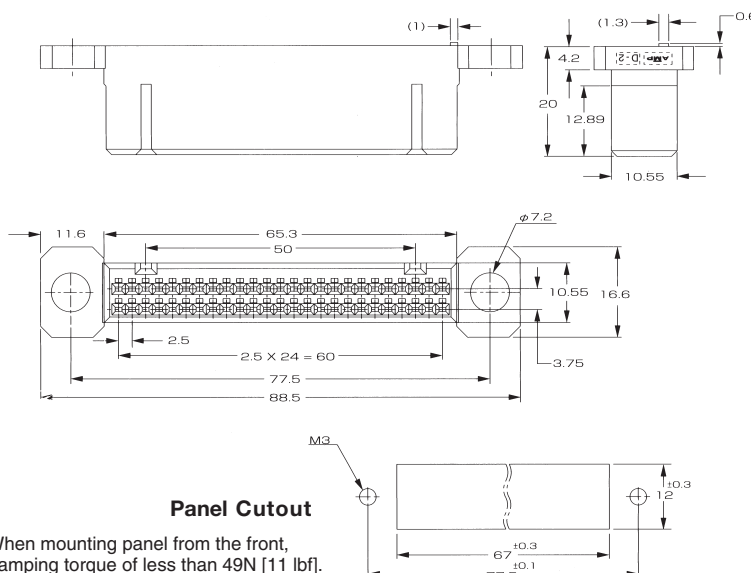
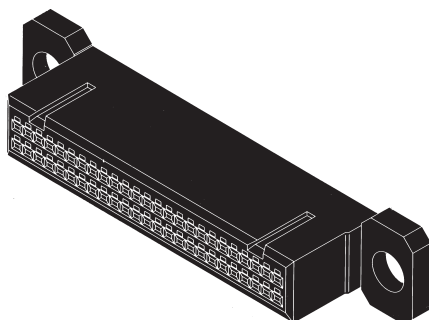


Drawer Type

External Dimensions

Receptacle Housing

Mating Header Assembly
Part Number:
1318579-1

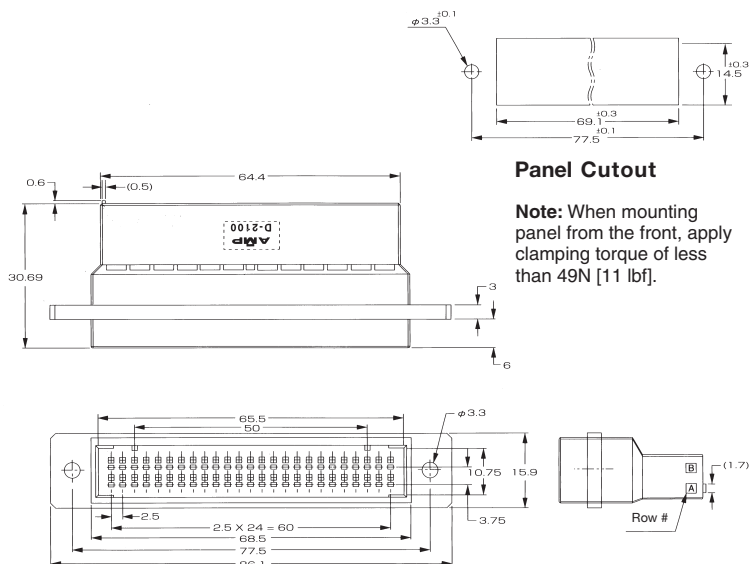
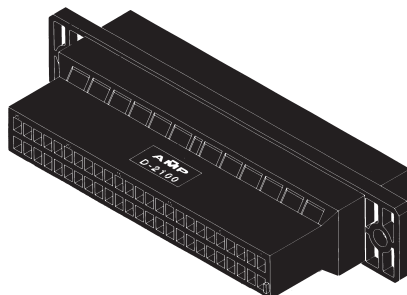


Panel Cutout

Note: When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].

Tab Housing

Mating Receptacle Assembly
Part Number:
1376072-2



Panel Cutout

Note: When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].

No. of Pos.	Part Number
50	1318577-1

D-2000 Series (Continued)

D-2100M Drawer Type

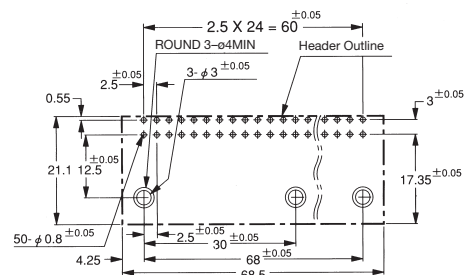
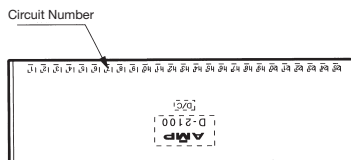
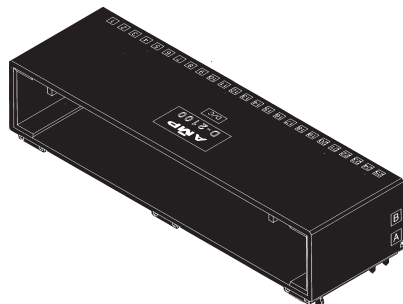
(Continued)

Board-Mount Tab Header (Horizontal Type)

Mating Receptacle Housing

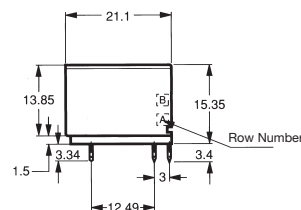
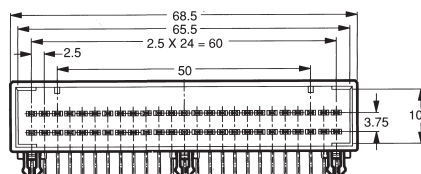
Part Number:

1318557-1



PC Board Layout

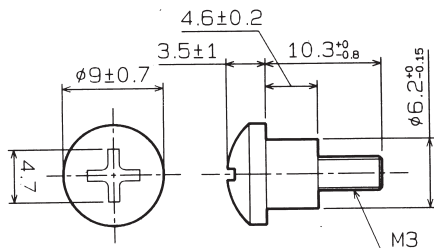
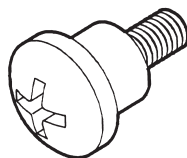
Applicable Board Thickness :
1.6+0.4



No. of Pos.	Part Number
50	1318579-1

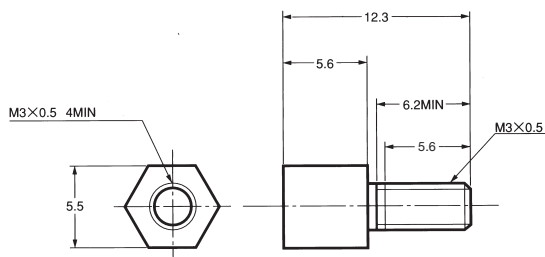
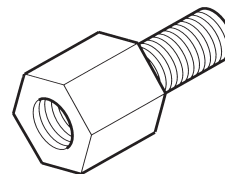
Panel Mounting Screw

Part Number
900167-1



Panel Mounting Screw

Part Number
1376059-1



D-2000 Series (Continued)

D-2100M Screw Lock Type

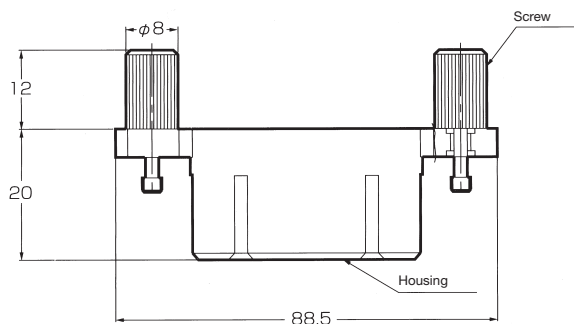
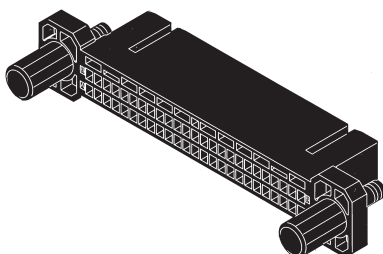
Receptacle Assembly (with screw)

Mating Tab Assembly

Part Number:

1318578-2

1376073-2



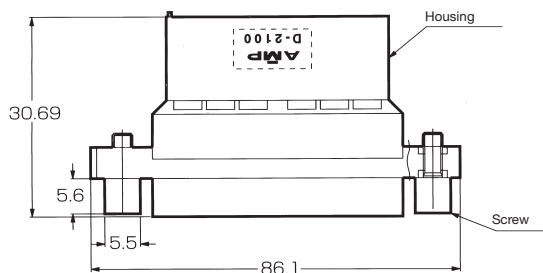
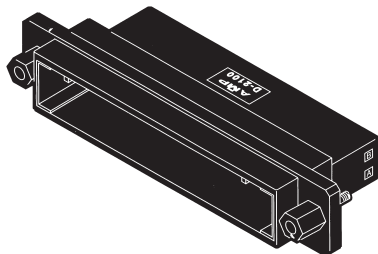
No. of Pos.	Part Number
50	1376072-2

Tab Assembly (with screw)

Mating Receptacle Assembly

Part Number:

1376072-2



No. of Pos.	Part Number
50	1376073-2

D-2000 Series (Continued)

D-2600 Series



D-2600 Series Connectors combine power and signal lines, which can dramatically improve productivity by reducing assembly steps.

Power lines (15A*/contact) and signal lines (5A*/contact) with different size contacts are combined in the Dynamic 2600 Series. Along

with being able to mate different size wires at one time, it contributes to more compact sizes and fewer assembly steps, and it also makes maintenance more efficient. On top of that, the contact has complete compatibility with the Dynamic D-2000 and D-3000 Series so new components and

applicators are not needed, eliminating the need for new equipment costs. Low mating force and mating/unmating and contact reliability continue to be superior to provide easy handling.

*The current ratings noted above are for 1 contact. The current rating is derated depending on the number of contacts.

Performance Characteristics

Pitch — D-2: 2.5 mm / -3: 3.81 mm

Voltage Rating — 250 VAC

Current Rating — D-2: 3.2 A;
D-3: 7.5 A

Contact Resistance — 10 mΩ Max.

Dielectric Withstanding Voltage —
1500 V 1 minute

Operating Temperature —
-55°C to +105°C

*When connectors are used singly.

Material and Finish

Receptacle Contact — Copper alloy, 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 tin plated

Housing — Glass Filled Polyester (PBT), UL 94V-0

Technical Documents

Product Specification
108-78301

Application Specification
114-5258
114-5148

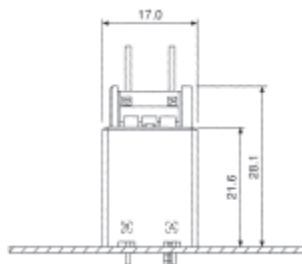
D-2 Contact (Refer to page 19)

D-3 Contact (Refer to page 38)

D-2000 Series (Continued)

D-2600 Series (Continued)

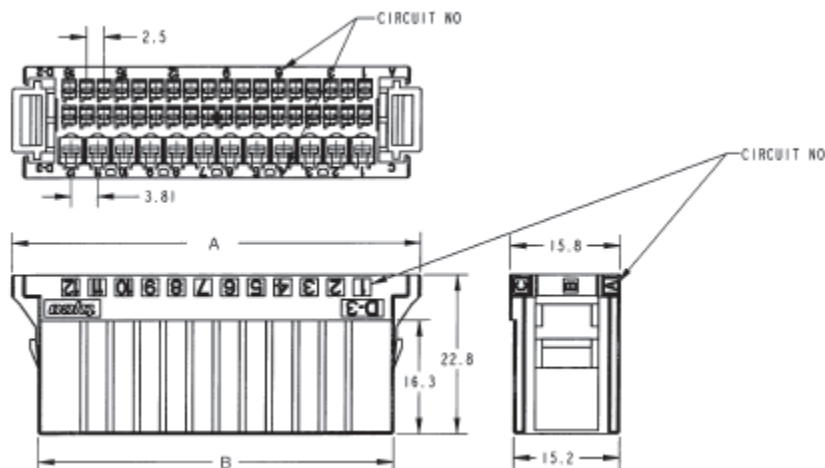
Mating Dimensions



Vertical Type

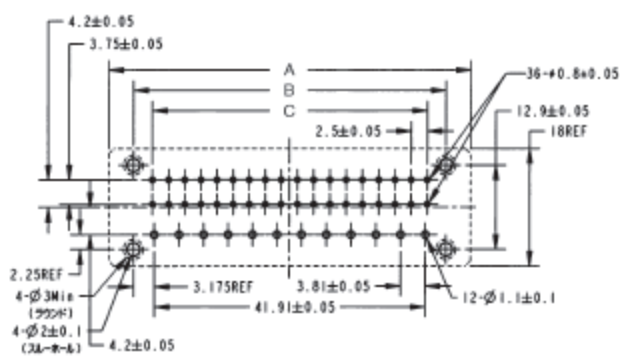
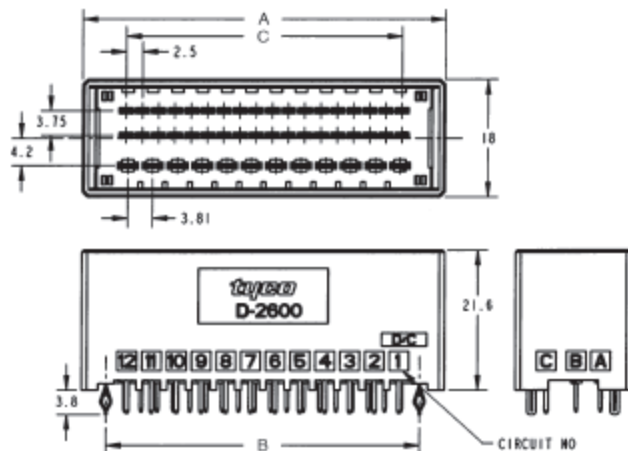
Dimensions

Receptacle Housing



No. of Pos.	Part Number	Dimensions	
		A	B
48	1827540-1	58.65	51.0

Board Mount Tab Header (Vertical Type)



PC Board Layout

Acceptable Board Thickness :
1.0-1.6±0.1

No. of Pos.	Part Number	Dimensions		
		A	B	C
48	1827538-1	55.91	48.26	42.50

D-3000 Series (Wire-to-Board, Wire-to-Panel and Wire-to-Wire)

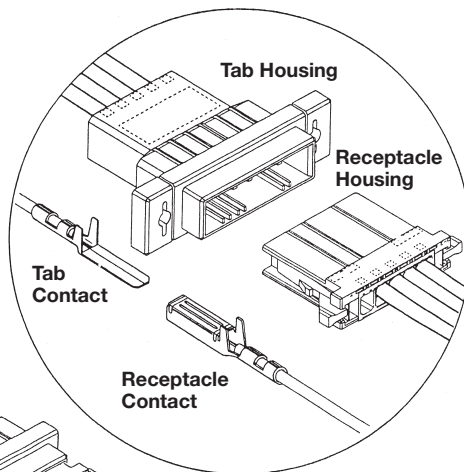
List of Products by Application

Used for both signal circuit and power/power supply circuit applications.

Able to carry 15A max. of current per position and are available in a full range of connector configurations including wire-to-wire, panel-mounting, free hanging, and horizontal and vertical wire-to-board mounting.

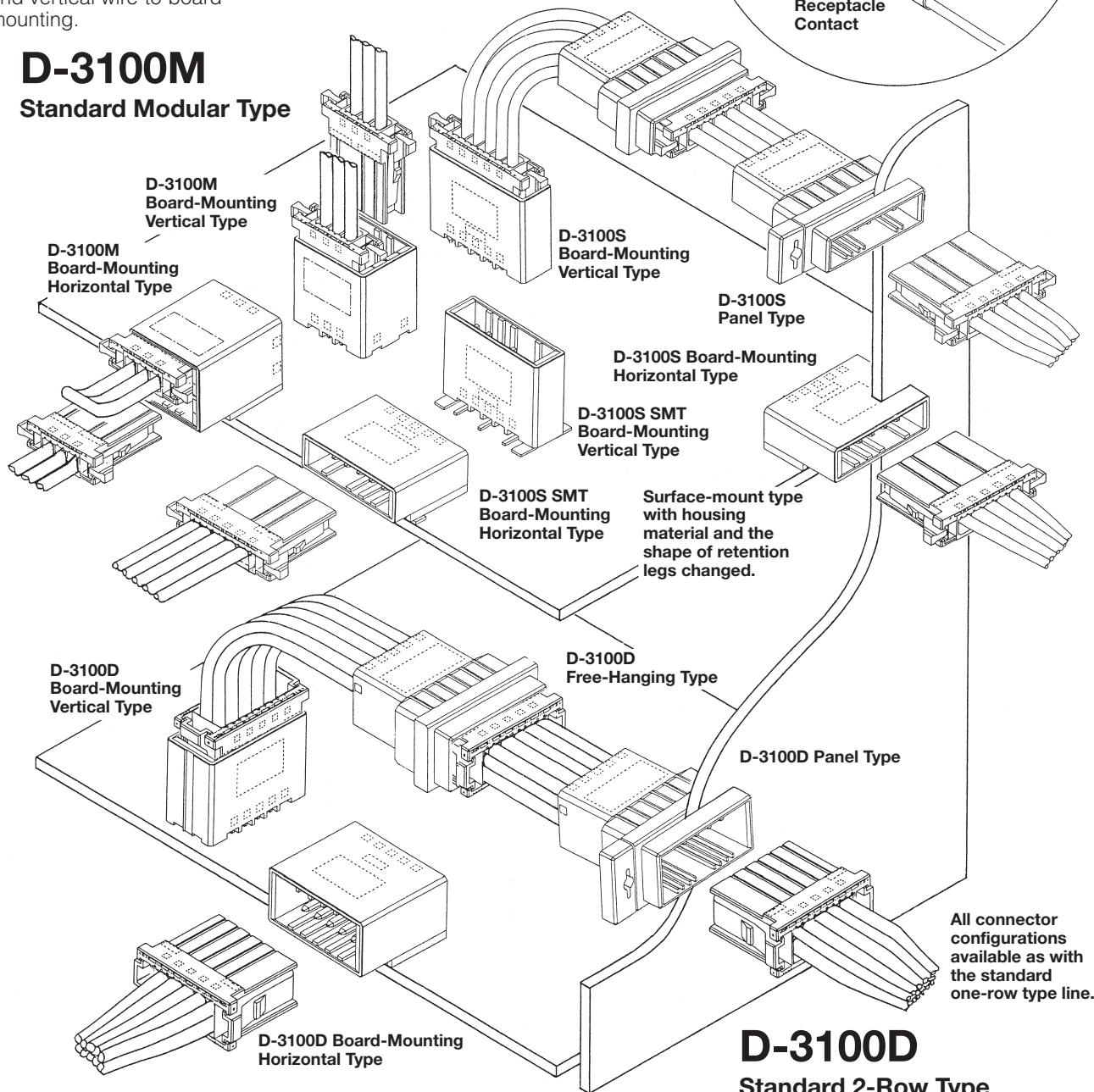
D-3000 Series

D-3100S Standard 1-Row Type



D-3100S
Free-Hanging Type

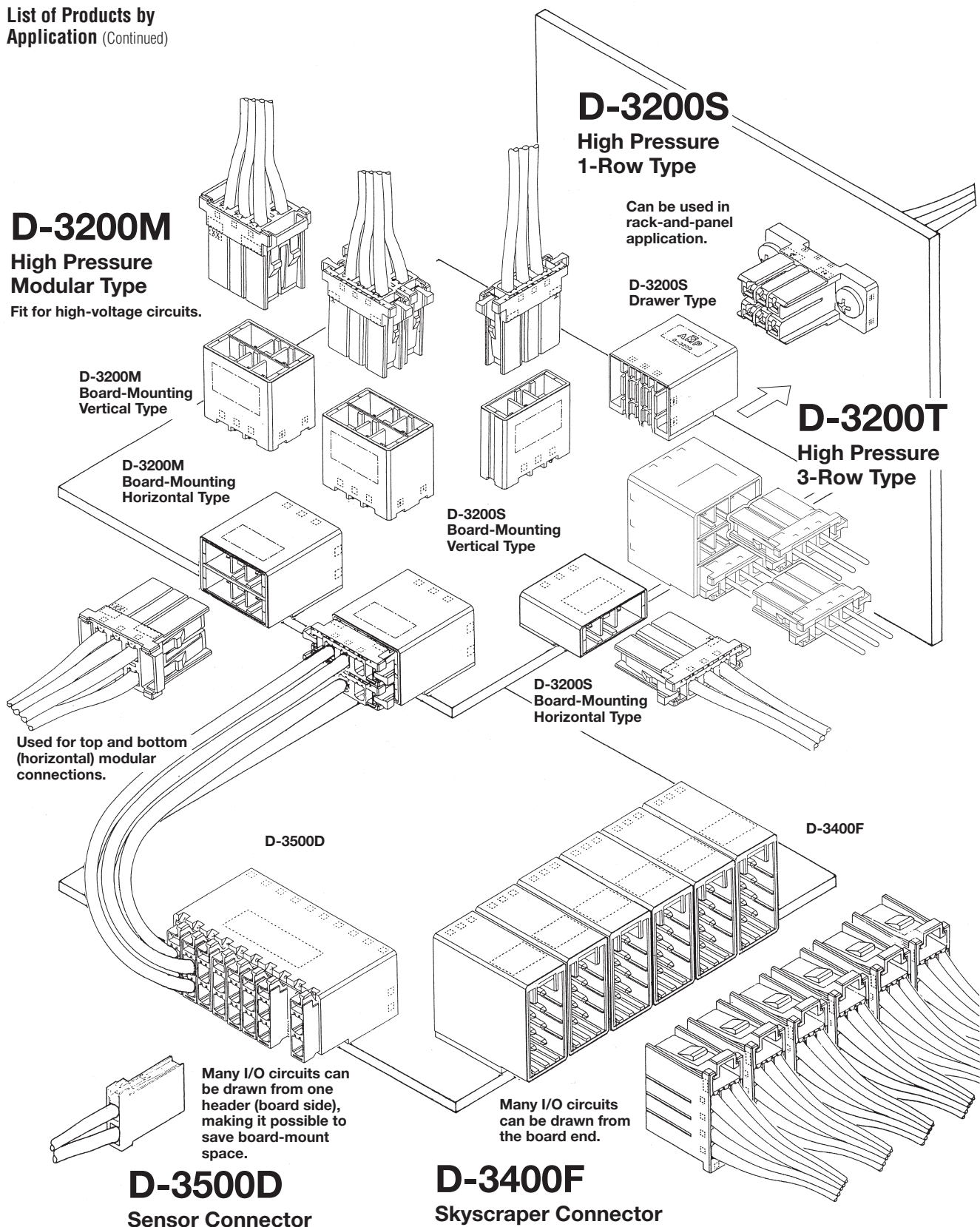
D-3100M Standard Modular Type



D-3100D Standard 2-Row Type

D-3000 Series (Continued)

List of Products by Application (Continued)



D-3000 Series (Continued)

Performance Specifications

Pitch	150mil (3.81mm)	200mil (5.08mm)
Item		
Voltage Rating	250 V	600 V*
Current Rating	1-position : 15A 3-position : 12A 6-position : 10A 16-position : 8A (when using #16 AWG wire)	
Contact Resistance	10mΩ max.	
Dielectric Withstanding Voltage	1,500 V	2,200 V (1 minute)
Operating Temperature	-55°~+105°C	

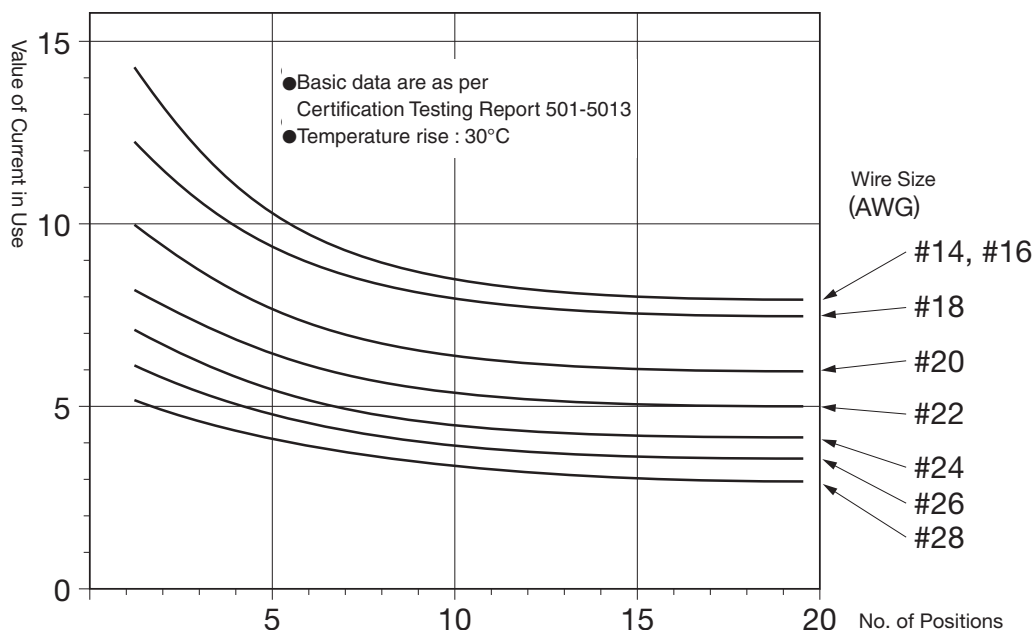
*When connectors are used singly.

Generally, the current value of connector is shown as per position. The current rating of this product is 15A as shown in the table. Note that in all circumstances it is the value per position. As the number of positions increases, this value decreases. This decrease can be calculated from the table and the current curve shown in the graph below.

Example:

- With a 6-position connector, 10A of current per position or a total of 60A (max) can be carried as shown in the table.
- With a 10-position connector, 8.5A of current per position or a total of 85A (max) can be carried as indicated by dotted lines in the graph below.

Number of Positions vs Current Curve (reference)



Material and Finish

Description	Material	Finish
Receptacle contact Tab contact	Copper alloy	Bright tin plating and gold plating with underplated nickel (1.27μm)
Tab post	Copper alloy	Tin plating and gold plating with underplated nickel (1.27μm)
Housing	UL94V-0 rated glass filled polyester (PBT) and PPS (SMT Type), black color.	

D-3000 Series (Continued)

Performance Specifications

(Continued)

Specifications and Instruction Sheets

Specifications and Instruction Sheets

Product Specification	108-5349
Testing Report	501-5013
Application Specification	114-5148
Instruction Sheet-Extraction Tool	411-5726

Instruction Sheet-Hand Tools

Instruction Sheet-Manual Tools

Tool No.	IS No.
91565-1	
91559-1	
91558-1	408-8547
91560-1	
19561-1	

*Remember to obtain Instruction Sheets when you choose to use these tools.

D-3000 Series

Safety Specifications

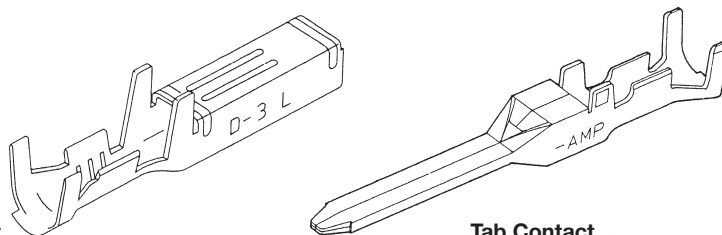
The safety specifications listed below are approved on specific part numbers. Contact our Technical Support to check if the part numbers you use are approved or not. Keep in mind that there are instances where values differ from those given by Tyco Electronics Specifications.

Series	D-3100, D-3400 Series (3.81mm pitch)			D-3200, D-3500 Series (5.08mm pitch)		
	Voltage Rating	Current Rating	Temperature Rating	Voltage Rating	Current Rating	Temperature Rating
Specifications 108-5349	250 V	See page 36	-55° to +105°C	600 V (Single conn.)	See page 36	-55° to +105°C
UL File No. E28476 (Recognized Component)	Determined by requirements of equipment in use.	Determined by requirements of equipment in use.	—	Determined by requirements of equipment in use.	Determined by requirements of equipment in use.	—
CSA Report No. LR7189	250 V	8A max.	—	250 V	8A max.	—
TÜV License No. R9151488 (VDE0627) IP Protection IP-00 Overvoltage Classification(II) Number of Repeated Insertions and Withdrawals 50	250 V	#28 AWG=2A #26 AWG=3A #24 AWG=3A #22 AWG=4A #20 AWG=5A #18 AWG=6A #16 AWG=8A #14 AWG=8A	-20° to +105°C	500 V	#28 AWG=2A #26 AWG=3A #24 AWG=3A #22 AWG=4A #20 AWG=5A #18 AWG=6A #16 AWG=8A #14 AWG=8A	-20° to +105°C

D-3000 Series (Continued)

D-3 Contact and Application Tooling

Crimp Type



Receptacle Contact
(Used on Receptacle Housing)

Tab Contact
(Used on Tab Housing)

Wire Range		Wire Ins. Diameter	Wire Range Mark	Contact Part Number ¹				Application Tooling Part Number	
				Receptacle Contact			Tab Contact	Mini-Applicator*	Hand Tool
AWG	mm ²			Standard contact (Only -2 & -3 available)	High contact (pressure -2, -3, & -5 available)				
28	0.08	0.8~1.2	S	ST.	175194-□	1-175194-□	175284-□	**	—
26	0.12			LP.	175216-□	1-175216-□	175287-□	—	91565-1
24	0.20	1.0~1.4	M	ST.	175195-□	1-175195-□	175285-□	**	—
22	0.30	1.7~2.6		LP.	175217-□	1-175217-□	175288-□	—	91559-1
20	0.50								
20	0.50	1.8~2.8	L	ST.	175196-□	1-175196-□	175286-□	**	—
18	0.85			LP.	175218-□	1-175218-□	175289-□	—	91558-1
16	1.25	2.2~2.8	2L	ST.	917484-□	1-917484-□	917485-□	**	—
14	2.20			LP.	917511-□	1-917511-□	917512-□	—	91560-1
16	1.25	3.1~3.3	3L	ST.	353715-□	1-353715-□	353716-□	**	—
14	2.20	3.3~3.4		LP.	353717-□	1-353717-□	353718-□	—	91561-1

¹ Enter the following plating code in Part Number suffix-□ :

-2 = 0.38μm thick gold plating
-3 = 0.76μm thick gold plating
-5 = Tin plating

Note: Solder-type Contact: We do not manufacture solder-type contacts for this specific application.

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

** Mini-Applicators are for use with automachines. (See page 40. For Part Numbers, contact Technical Support.)

Hand Tools



Standard Type

Uses	For General Production
Can it be used for repairing?	Yes
Approximately how many cycles of crimping can be performed?	50,000
What is Minimum Order Quantity?	1

D-3000 Series (Continued)

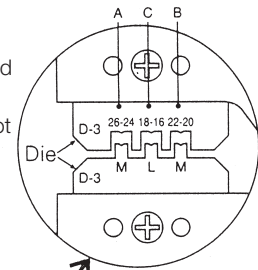
Application Tooling

(Continued)

Hand Tool

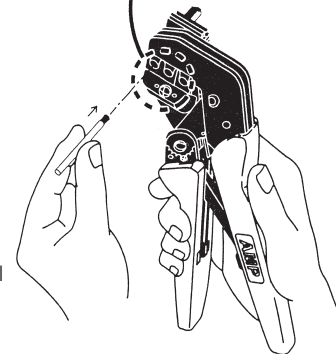
This hand tool is designed to be capable of handling most Factory Automation (FA) related crimping operations by a single tool in order to simplify harness fabrications suited to the specific needs of FA market. The equipment forming the nucleus of the FA system includes PCs, CNCs, servodrivers and servomotors. And the wire used in connecting this equipment ranges in wire size from #26-20 AWG which applies to signal circuits to #18-16 AWG which is for power circuits (See Sketch below).

Crimping Range A, B, and C are for explanation purposes only and are not marked on the tool body.



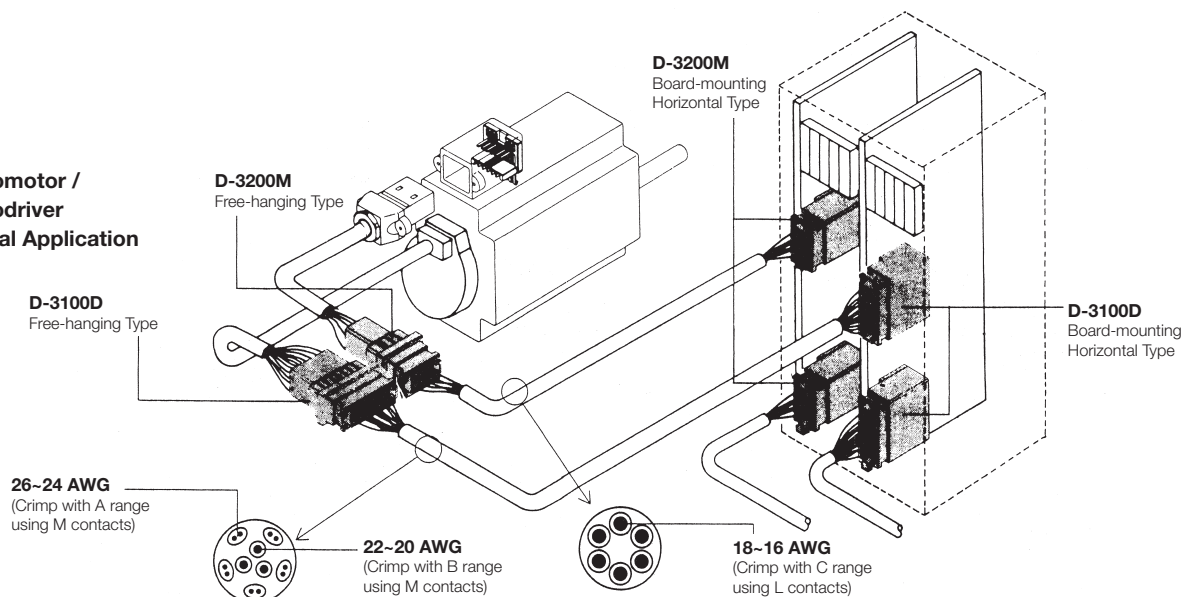
For right-handed use
Hand Tool P/N : 58571-1
Die Set P/N : 58571-2

The frame of right-handed tool has the same configuration as that of Economy Type (II) and PRO-CRIMPER II Hand Tool (See PRO-CRIMPER Hand Tool Catalog). So die sets are interchangeable.



D-3000 Series

Servomotor / Servodriver Typical Application



D-3000 Series (Continued)

Application Tooling (Continued)

AMP-3K/40 and AMP-5K/40 Terminating Machines



Mini-Applicator
Minimum Quantity : 1



Contact Technical Support for
Mini-Applicator Part Number

The AMP-3K/40 and AMP-5K/40 Terminators are designed for customers that require the increased output and quality of a semi-automatic machine at a competitive price. By incorporating the most commonly requested features as standard and offering a long list of optional equipment, these terminators offer flexibility to meet the specific needs of various applications at the lowest possible cost.

- 3,000 lb. [1361 kg] max. crimp force (AMP-3K/40)
- 5,000 lb. [2268 kg] max. crimp force (AMP-5K/40)
- Toolless removal of applicators and guards
- Jog capability
- Quiet, fast operation — 80/76 dBA and cycle time less than 0.400 seconds
- Accepts Heavy Duty Mini style applicators
- Wide range of optional equipment such as toolless precision crimp height adjust, batch counter, CQM capability and work light
- Order Catalog 1654856 for specifications and part numbers

AMP-O-LECTRIC Model G Terminating Machine

The Model "G" Terminator is the most advanced design in the long-standing series of AMP-O-LECTRIC machines for terminating wire using reeled terminals and contacts. It features a reliable direct motor drive system. Its modular construction enables it to be used either as a bench-top unit, or in combination with fully-automatic lead-making equipment. For operator convenience, access to and lighting in the target area has been improved and the Crimp Quality Monitor (CQM) has been moved to eye level for bench-top use. The Model "G" is also quieter, plus improved guarding meets applicable European and domestic safety requirements.

- Quieter
- Improved guarding and lighting
- Toolless changeover of applicators
- Precision manual- or auto-adjust for crimp height
- Total and batch counter
- Accepts all existing Tyco Electronics miniature applicators, with minor modifications
- Reduced maintenance requirements
- Request Catalog 65828 for specifications and part numbers



AMP-O-MATIC Side-Feed Stripper/Crimper Machine

This semiautomatic bench machine strips and terminates wire in a single operation. You simply position the wire against a spot illuminated on the wire stop and cycle the machine. In the automatic mode, the machine cycles when the wire touches the wire stop.

Using interchangeable applicators, this versatile machine is ideal for terminating jacketed cable with a variety of pin and socket contacts. Applicators are also available for non-AMP products.

- Strip and terminate wires 32-14 AWG [0.03-2mm²]
- Fast set-up times: 10 minutes or less
- Illuminated target area
- Convenient scrap removal
- Select foot switch or wire-sensor mode of operation
- Request Catalog 65004 for specifications and part numbers



D-3000 Series (Continued)

Application Tooling

(Continued)

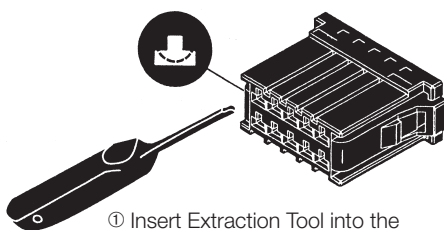
Extraction Tool

This tool is used to extract contacts from wire-type tab/receptacle housings.

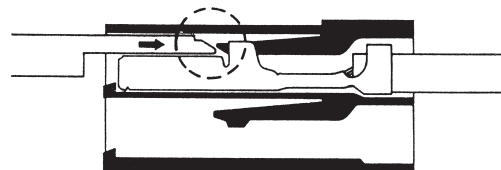


Part Number: 234168-1
(411-5726)

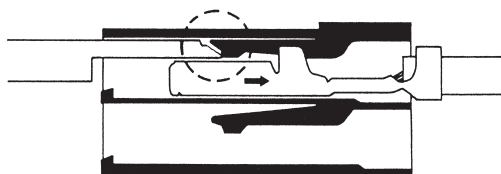
*Take care not to insert into the Contact Section.



- ① Insert Extraction Tool into the narrow section of the upper convex cavity of housing in the direction as shown (Make sure the Tool's top and bottom are in correct position.)



- ② The Extraction Tool tip lifts up housing lance, making contact free.



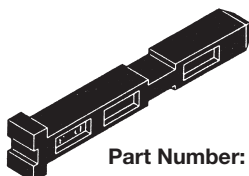
- ③ Contact can now be pulled out.

D-3000 Series

Keying Plug

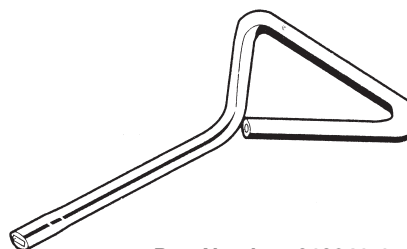
(used to help prevent misinsertion)

Keying plug is used to minimize the possibility of contacts being inserted in wrong directions when using connectors of the same size end-to-end.



Part Number: 175855-1

Tab Contact Cutting Tool

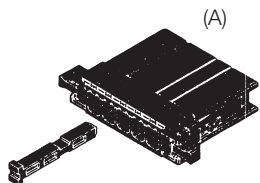


Part Number: 919041-1

How To Use Plug and Tool

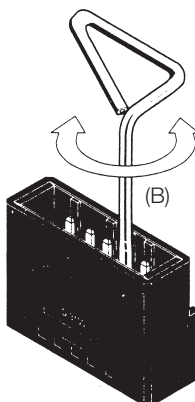
*Some of the products in this Series (D-3100S/D-3100M/D-3200S/D-3200M) are preloaded with keying plugs to help prevent misinsertion.

- ① Insert a keying plug in one position of receptacle Housing.

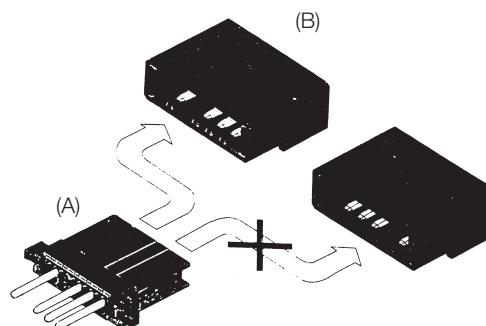


- ② Twist off a tab in the corresponding position of mating Tab Header and empty that position. To twist off the tab, insert Cutting Tool into its root and turn Tool as shown.

* For Tab housing (Panel/Free hanging Types), leave Housing empty by not inserting a contact in one position.



- ③ This being done, contacts cannot be inserted in wrong direction.

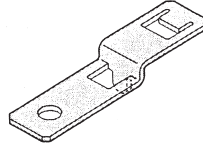


D-3000 Series (Continued)

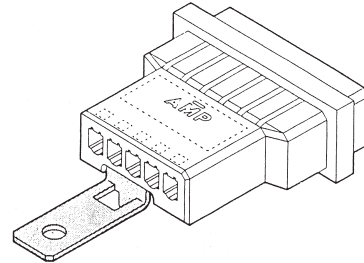
Connector Mounting Hardware

L Fittings

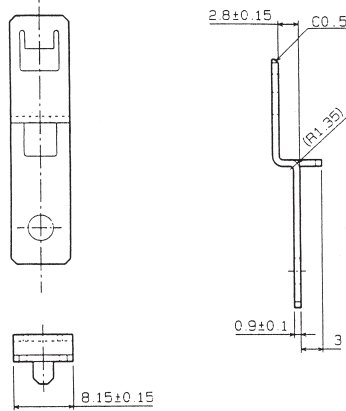
Used to secure free-hanging type tab housings onto panels. Applicable housings are specified in the table of housings.



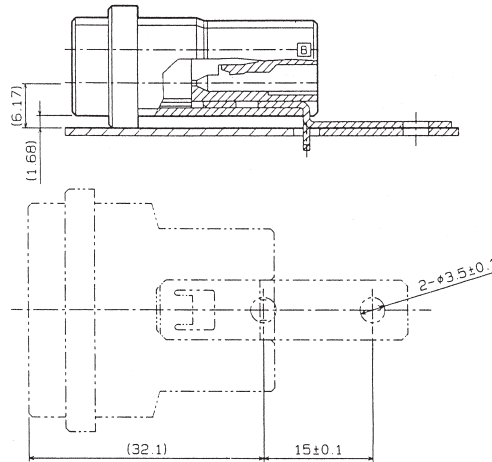
Part Number: 900121-2 (S)



External Dimensions



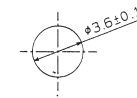
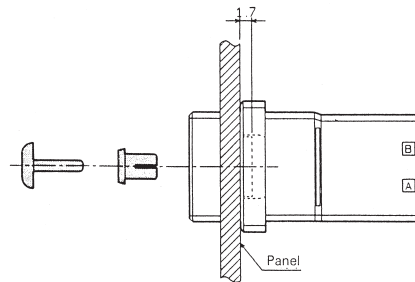
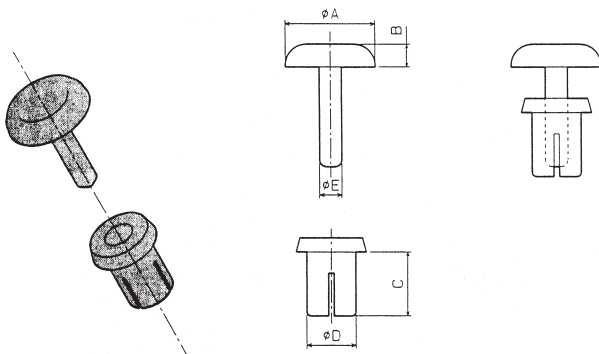
Part Number: 900121-2 (S)



The location where housing is attached varies by Series and size. Check with sample.

Push Rivets

Used to secure panel-type tab housings onto panels (Use as handy mounting hardware. Cannot be used with larger sized housings or those that are frequently inserted and withdrawn).



Recommended panel hole dimension

Part Number	Panel Thickness	Dimensions					Insertion Force	Retention Force
		A	B	C	D	E		
900128-1	0.3-1.3	6.4	1.6	4.5	3.5	1.95	2-3kg	13kg Min.*
900128-2	1.3-2.3	6.4	1.6	5.5	3.5	1.95	2-3kg	13kg Min.*

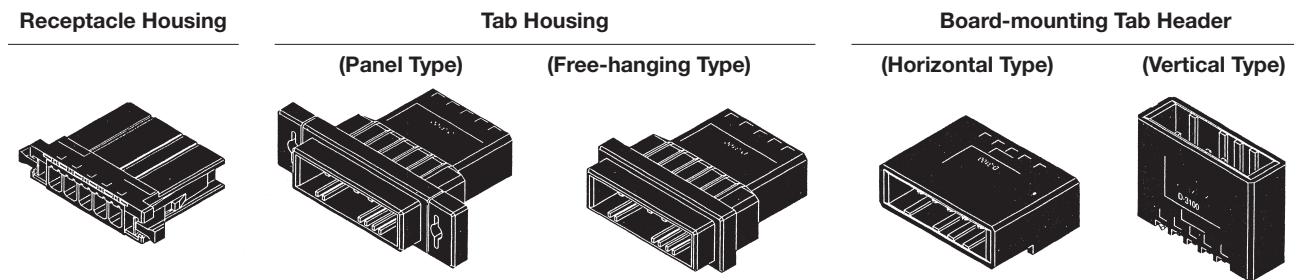
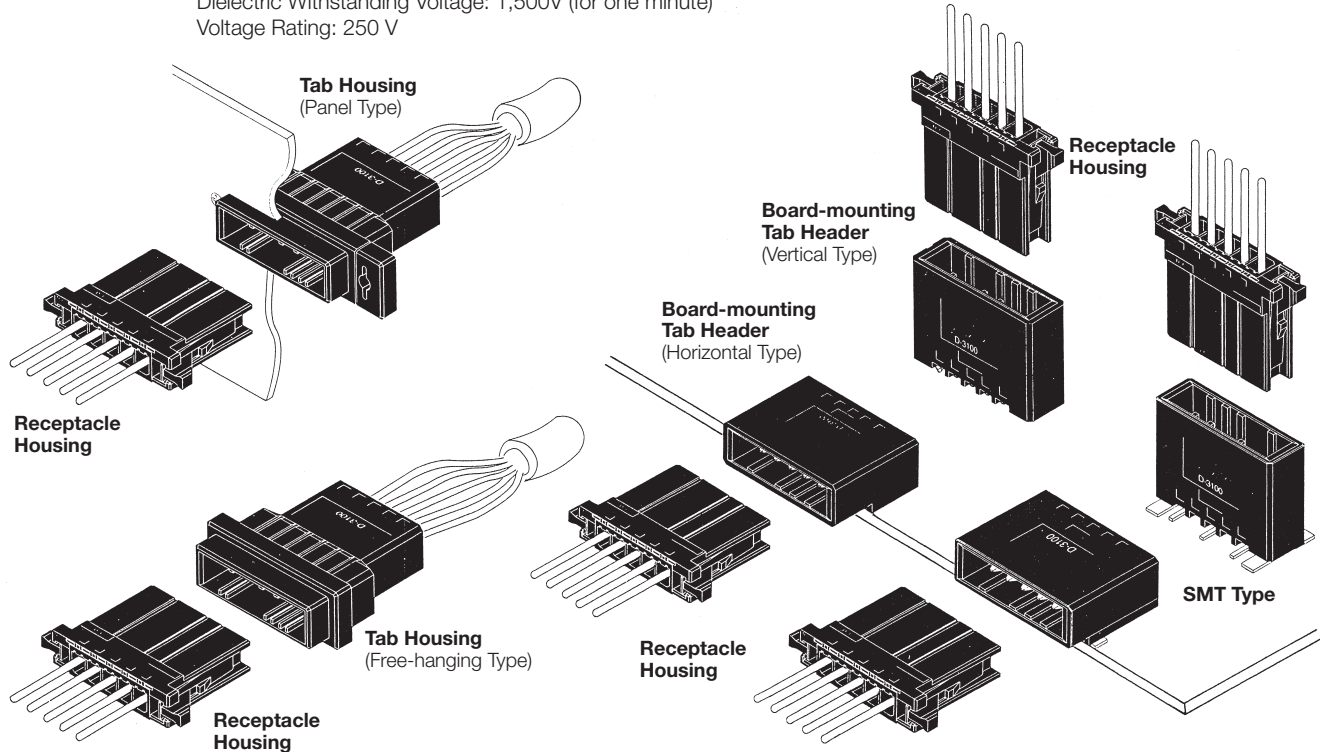
*When 2 push rivets are used.

D-3000 Series (Continued)

D-3100S — Standard 1-Row Type

Appearance

Board mounting pitch: Horizontal Type 150 mils (3.81mm) / Vertical Type 150 mils (3.81mm)
Dielectric Withstanding Voltage: 1,500V (for one minute)
Voltage Rating: 250 V



No. of Pos.	Keying	Receptacle Housing	Tab Housing			Board-mounting Tab Header	
			Panel Type	Free-hanging Type	L Fitting	Horizontal Type	Vertical Type
2	See D-3200S Series						
3	X	1-178288-3*1	1-178802-3	1-177648-3	S	1-178293-□	1-178313-□
	Y	2-178288-3*2	2-178802-3	2-177648-3	S	2-178293-□	2-178313-□
4	X	1-178288-4	—	—	S	1-178294-□	1-178314-□
	Y	2-178288-4	—	—	S	2-178294-□	2-178314-□
5	X	1-178288-5*3	1-178802-5	1-177648-5	—	1-178295-□	1-178315-□
6	X	1-178288-6	—	—	—	1-178296-□	1-178316-□
	Y	2-178288-6	—	—	—	2-178296-□	2-178316-□
8	X	1-178288-7*4	1-178802-7	1-177648-7	—	1-178297-□	1-178317-□
10	X	1-178288-8	1-178802-8	1-177648-8	—	1-178298-□	1-178318-□
	Y	2-178288-8	2-178802-8	2-177648-8	—	2-178298-□	2-178318-□

Note: Enter the following plating codes in -□ after Part Numbers:
-2 = 0.38μm thick gold plating, -3 = 0.76μm thick gold plating,
-5 = Tin plating

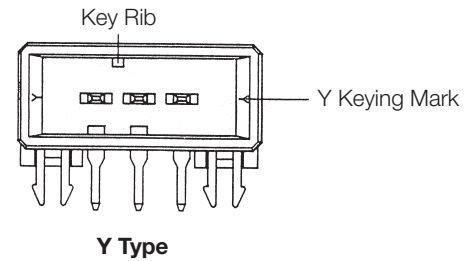
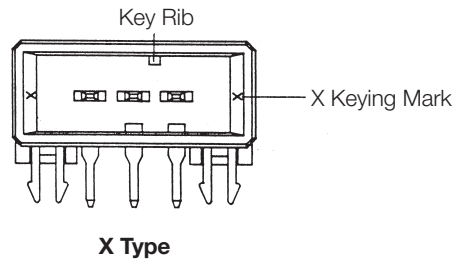
*1, *3 and *4 can be used as SMT Type Receptacle Housing.
*1 and *2 can also be used in modular configuration in combination
with D-3100M Tab Header.

D-3000 Series (Continued)

D-3100S — Standard 1-Row Type (Continued)

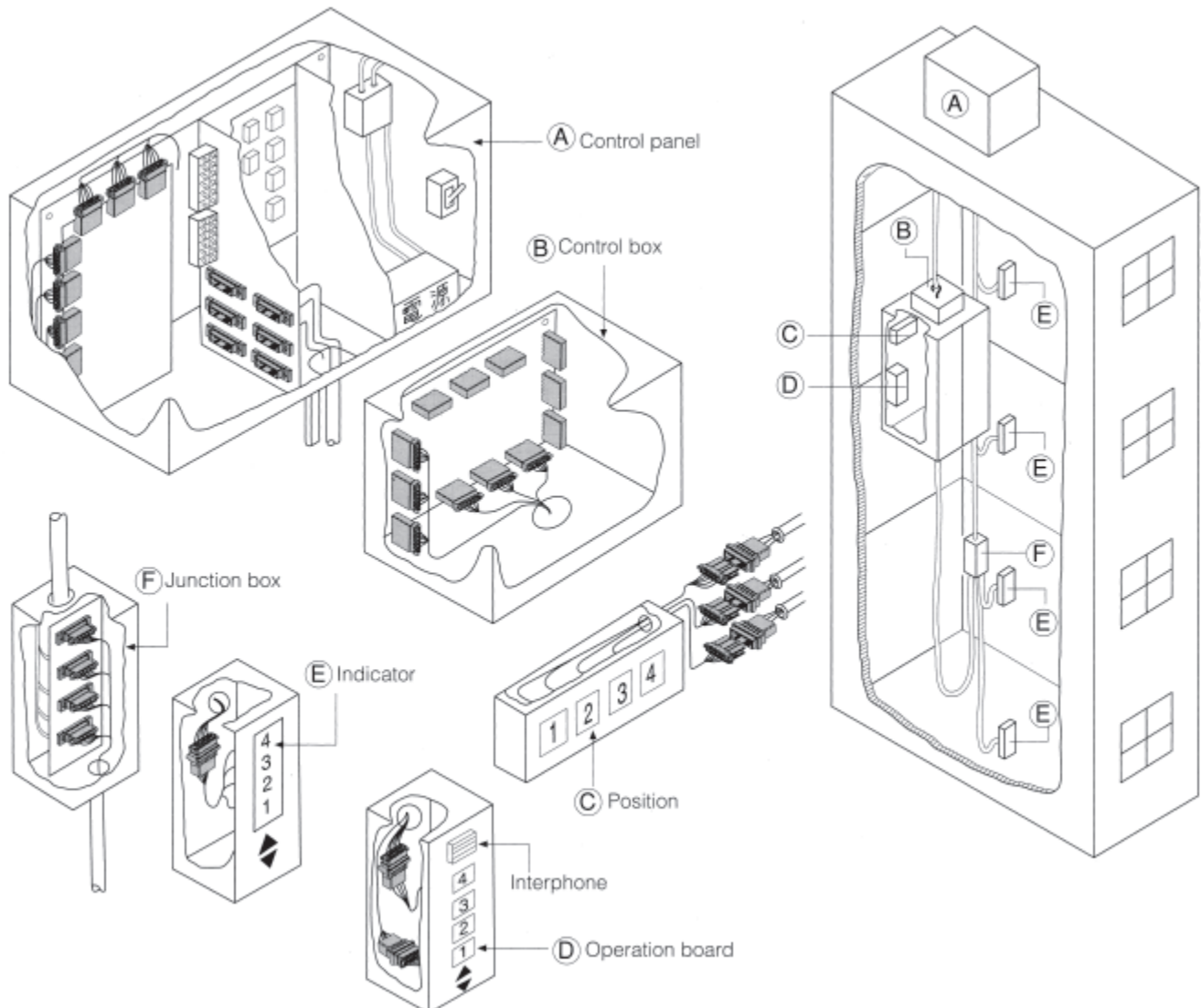
Keying

This product (D-3100S) is provided with keying plugs to help prevent misinsertion of contacts. Two types are available: X Type and Y Type (Shown below is the mating front of Tab Header).



Applications

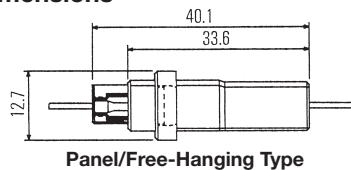
Typical Applications for Elevator



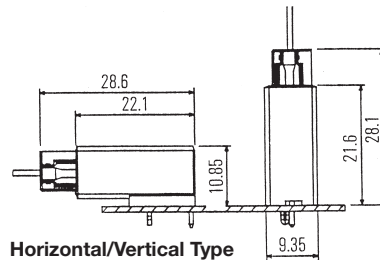
D-3000 Series (Continued)

D-3100S — Standard 1-Row Type (Continued)

Mating Dimensions

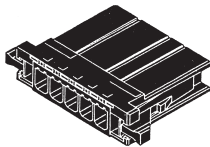


Panel/Free-Hanging Type



Horizontal/Vertical Type

Receptacle Housing



Mating Tab Connector

Part Number:

□-178802-□ □-178313-□

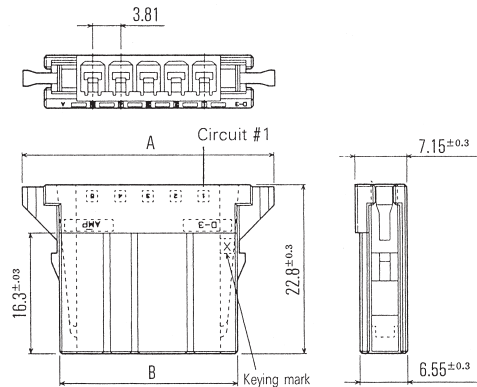
□-177648-□ thru

□-178293-□ □-178318-□

thru

□-178298-□

No. of Pos.	Part Number	Dimensions	
		A	B
2	—	—	—
3	□-178288-3	26.76	16.7
4	□-178288-4	30.57	20.51
5	□-178288-5	34.38	24.32
6	□-178288-6	38.19	28.13
8	□-178288-7	45.81	35.97
10	□-178288-8	53.43	43.37



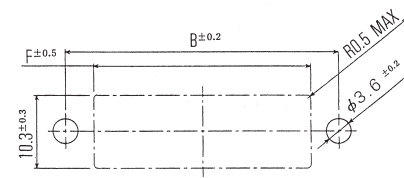
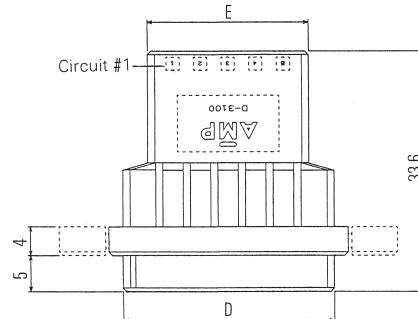
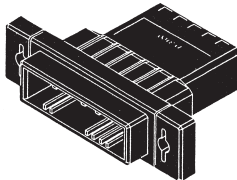
Tab Housing

Mating Receptacle Housing

Part Number:

□-178288-□

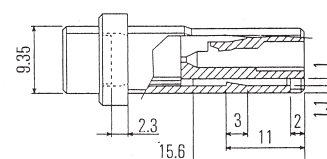
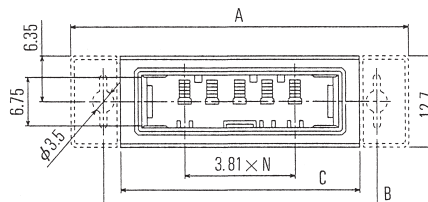
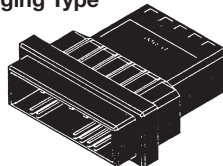
Panel Type



Panel Cutout

When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].

Free-hanging Type



No. of Pos.	Part Number		Dimensions					
	Panel Type	Free-hanging Type	A	B	C*	D	E	F
2	—	—	—	—	—	—	—	—
3	□-178802-3	□-177648-3	40	31	25.57	21.62	14.62	22.6
4	—	—	—	—	—	—	—	—
5	□-178802-5	□-177648-5	47	38	33.19	29.24	22.24	30.2
6	—	—	—	—	—	—	—	—
8	□-178802-7	□-177648-7	59	50	44.62	40.67	33.67	41.6
10	□-178802-8	□-177648-8	67	58	52.24	48.29	41.29	49.2

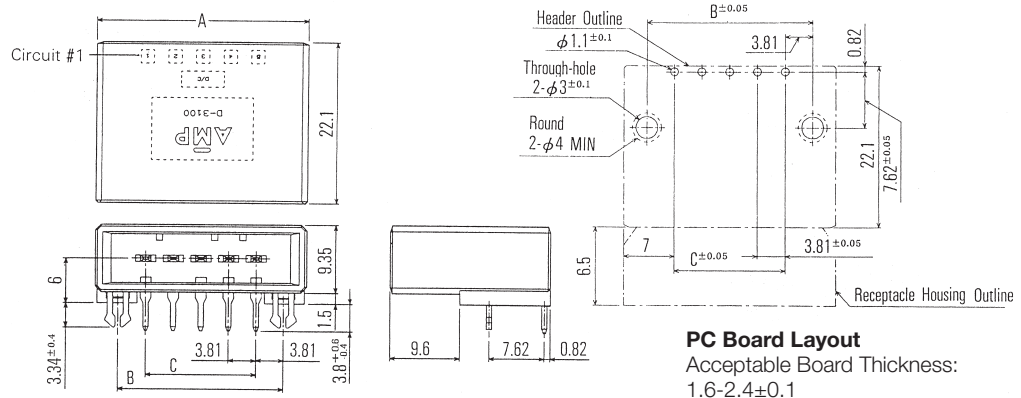
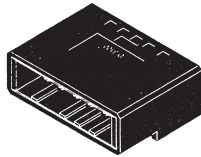
*Applicable to Free-hanging Type only.

D-3000 Series (Continued)

D-3100S — Standard
1-Row Type (Continued)

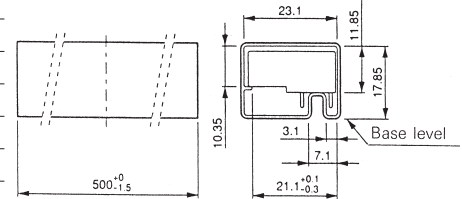
Board-mounting Tab Header (Horizontal Type)

Mating Receptacle Housing
Part Number:
□-178288-□



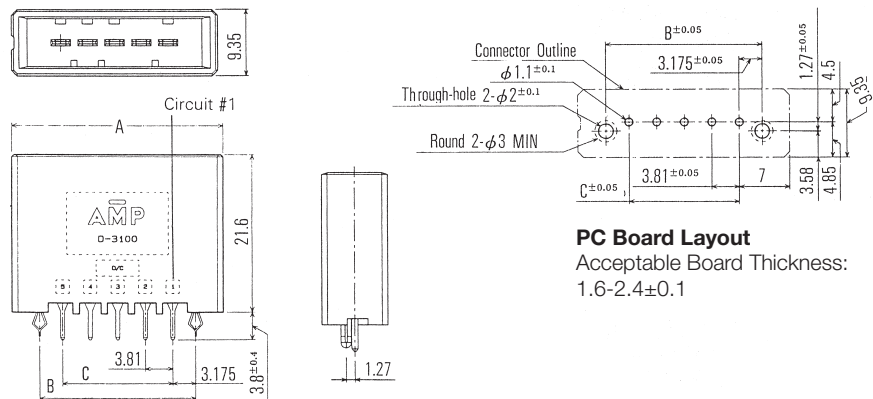
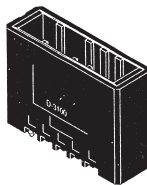
No. of Pos.	Part Number	Dimensions		
		A	B	C
2	—	—	—	—
3	□-178293-□	21.62	15.24	7.62
4	□-178294-□	25.43	19.05	11.43
5	□-178295-□	29.24	22.86	15.24
6	□-178296-□	33.05	26.67	19.05
8	□-178297-□	40.67	34.29	26.67
10	□-178298-□	48.29	41.91	34.29

Tube Package Dimensions (Ref.)



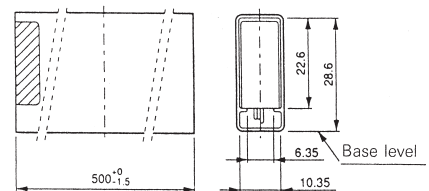
Board-mounting Tab Header (Vertical Type)

Mating Receptacle Housing
Part Number:
□-178288-□



No. of Pos.	Part Number	Dimensions		
		A	B	C
2	—	—	—	—
3	□-178313-□	21.62	13.97	7.62
4	□-178314-□	25.43	17.78	11.43
5	□-178315-□	29.24	21.59	15.24
6	□-178316-□	33.05	25.4	19.05
8	□-178317-□	40.67	33.02	26.67
10	□-178318-□	48.29	40.64	34.29

Tube Package Dimensions (Ref.)

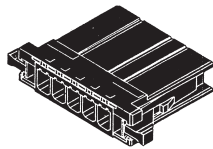


D-3000 Series (Continued)

D-3100S — Standard SMT Type

Appearance Dielectric Withstanding Voltage: 1,500 V (for one minute) Voltage Rating: 250 V

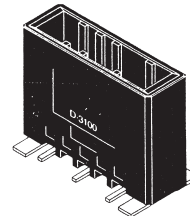
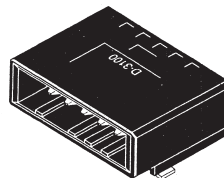
Receptacle Housing



Board-mounting Tab Header

(Horizontal Type)

(Vertical Type)



Part Number Chart

No. of Pos.	Keying	Receptacle Housing*	Board-mounting Tab Header	
			Horizontal Type	Vertical Type
3	x	1-178288-3	—	—
5	x	1-178288-5	1-177662-□	1-177665-□
8	x	1-178288-7	1-179188-□	—

Note: Enter the following plating codes in -□ after Part Numbers:

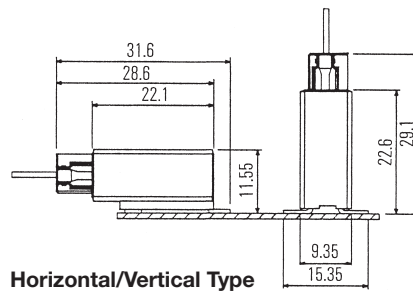
-2 = 0.38μm thick gold plating

-3 = 0.76μm thick gold plating

Material of Tab Header : P.P.S.

*D-3100S Series.

Mating Dimensions



Receptacle Housing

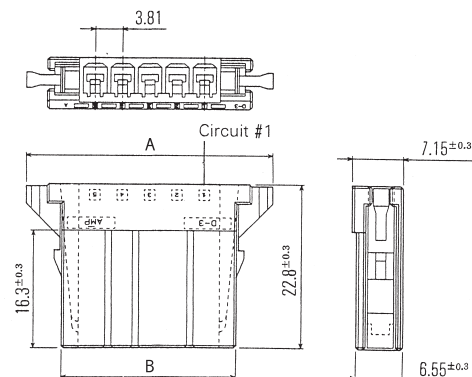
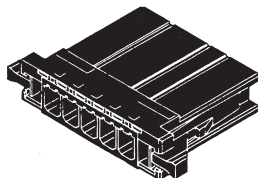
Mating Tab Header

Part Number:

□-177662-□

□-177988-□

□-177665-□



No. of Pos.	Part Number	Dimensions	
		A	B
3	□-178288-3	26.76	16.7
5	□-178288-5	34.38	24.32
8	□-178288-7	45.81	35.97

D-3000 Series (Continued)

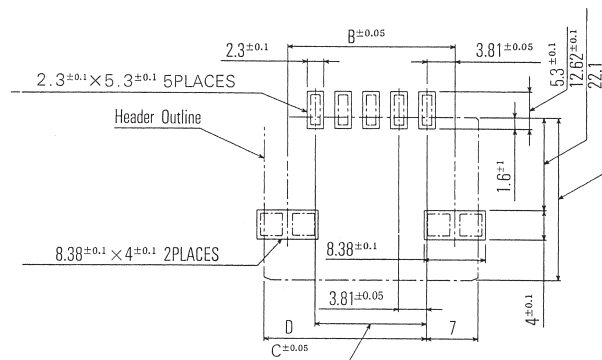
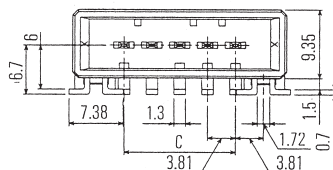
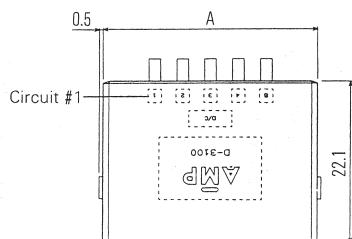
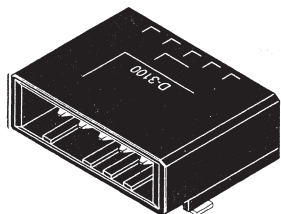
D-3100S — Standard SMT Type (Continued)

Board-mounting Tab Header (Horizontal Type)

Mating Receptacle Housing

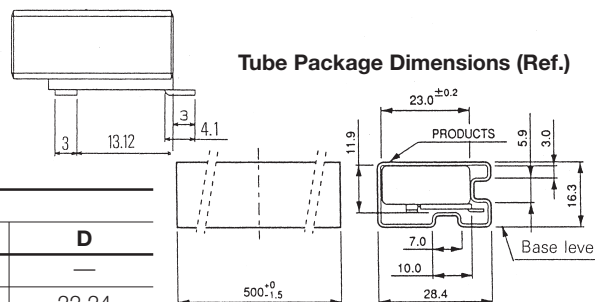
Part Number:

□-178288-□



PC Board Layout

Tube Package Dimensions (Ref.)



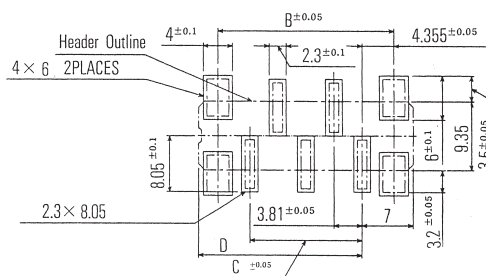
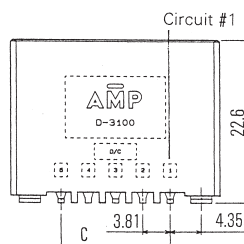
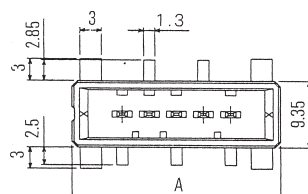
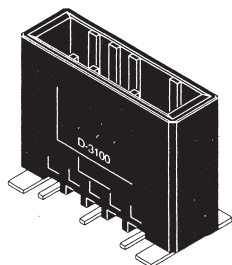
No. of Pos.	Part Number	Dimensions			
		A	B	C	D
3	—	—	—	—	—
5	□-177662-□	29.24	22.86	15.24	22.24
8	□-179188-□	40.67	34.29	26.67	33.67

Board-mounting Tab Header (Vertical Type)

Mating Receptacle Housing

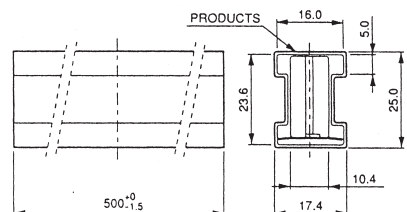
Part Number:

□-178288-□



PC Board Layout

Tube Package Dimensions (Ref.)

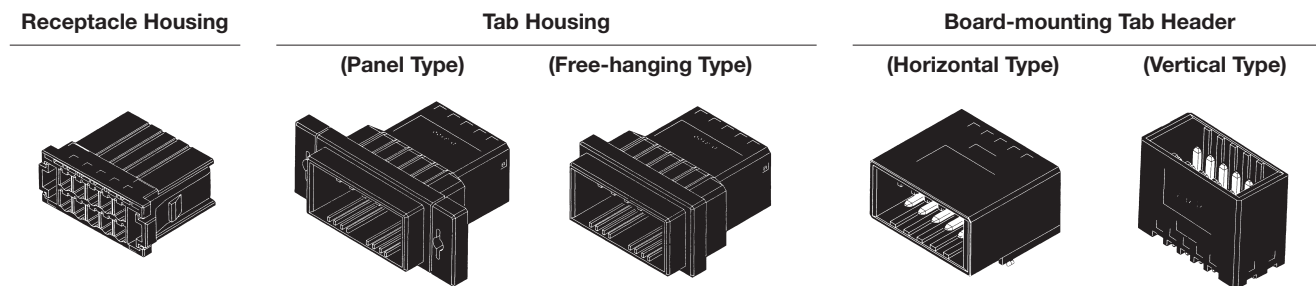
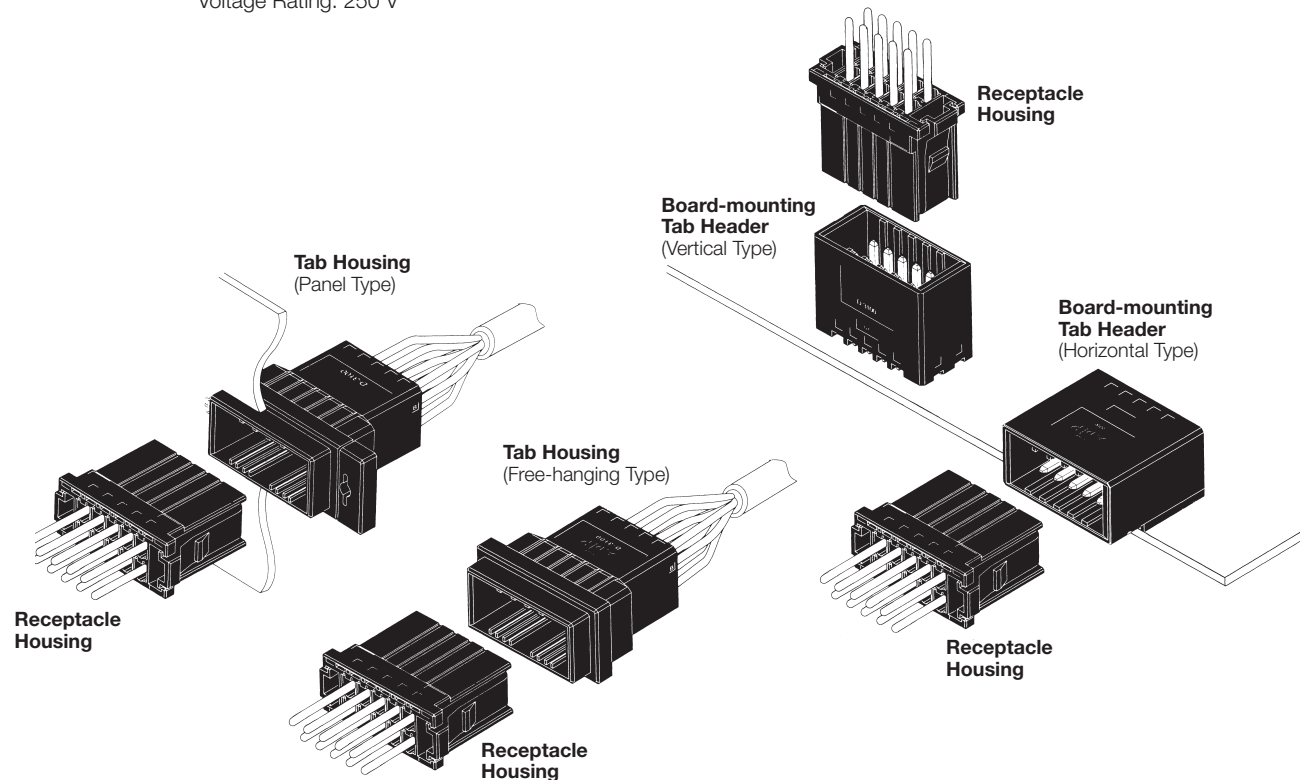


No. of Pos.	Part Number	Dimensions			
		A	B	C	D
3	—	—	—	—	—
5	□-177665-□	29.24	23.95	15.24	22.24
8	—	—	—	—	—

D-3000 Series (Continued)

D-3100D — Standard 2-Row Type

Appearance Board mounting pitch: Horizontal Type 150x150mils (3.81x3.81mm) / Vertical Type 150x200mils (3.81x5.08mm)
Dielectric Withstanding Voltage: 1,500V (for one minute)
Voltage Rating: 250 V



Part Number Chart

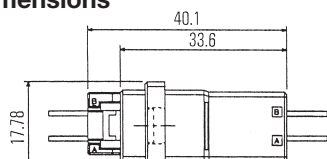
No. of Pos.	Receptacle Housing	Tab Housing			Board-mounting Tab Header	
		Panel Type	Free-hanging Type	L Fitting	Horizontal Type	Vertical Type
4	—	—	—	—	—	—
6	178289-3	178803-3	178964-3	S	178303-□	178323-□
8	178289-4	—	—	—	1717412-□	—
10	178289-5	178803-5	178964-5	—	178305-□	178325-□
12	178289-6	178803-6	178964-6	—	178306-□	178326-□
16	178289-7	178803-7	178964-7	—	178307-□	178327-□
20	178289-8	178803-8	178964-8	—	178308-□	178328-□

Note: Enter the following plating codes in -□ after Part Numbers:
-2 = 0.38µm thick gold plating, -3 = 0.76µm thick gold plating,
-5 = Tin plating

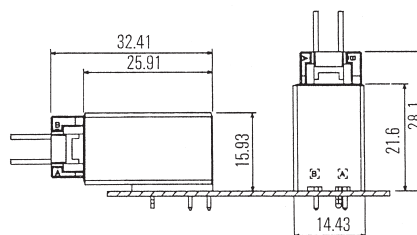
D-3000 Series (Continued)

D-3100D — Standard 2-Row Type (Continued)

Mating Dimensions

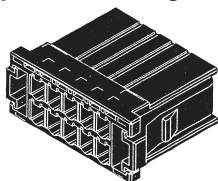


Panel/Free-Hanging Type



Horizontal/Vertical Type

Receptacle Housing



Mating Tab Connector

Part Number:

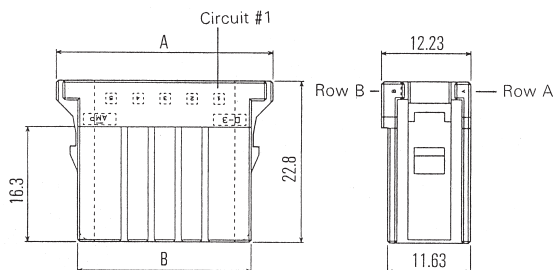
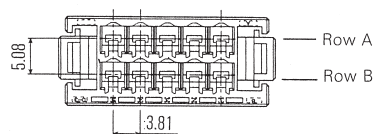
□-178803-□ 1717412-□

□-178964-□ 178323-□

178303 thru

thru 178328-□

□-178308-□



No. of Pos.	Receptacle Housing	Dimensions	
		A	B
6	178289-3	24.36	16.70
8	178289-4	28.17	20.51
10	178289-5	31.98	24.32
12	178289-6	35.09	28.35
16	178289-7	42.71	35.97
20	178289-8	51.03	43.37

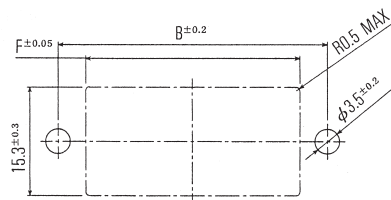
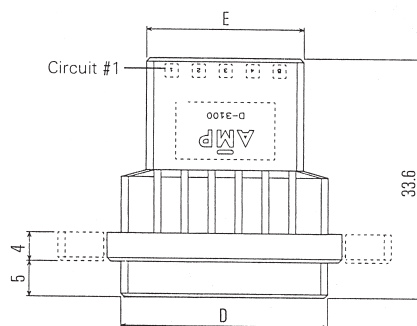
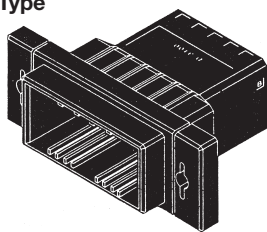
Tab Housing

Mating Receptacle Housing

Part Number:

178289-

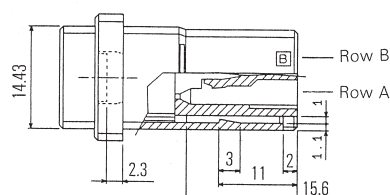
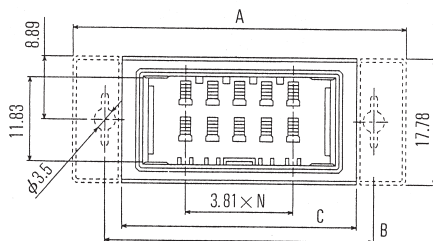
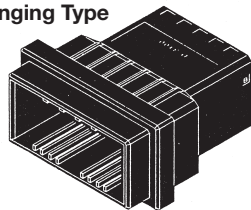
Panel Type



Panel Cutout

When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].

Free-hanging Type



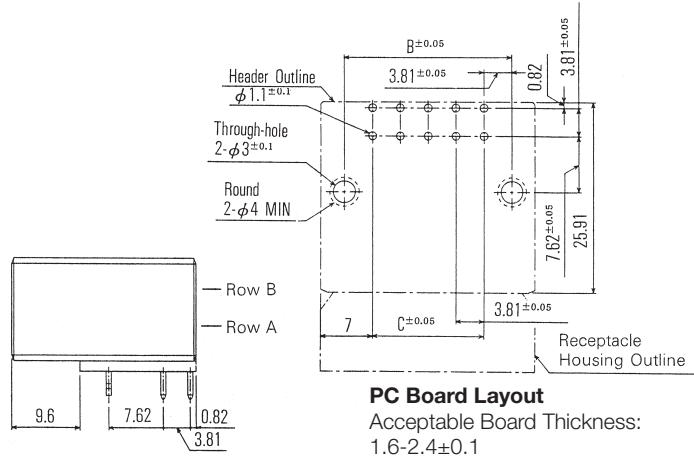
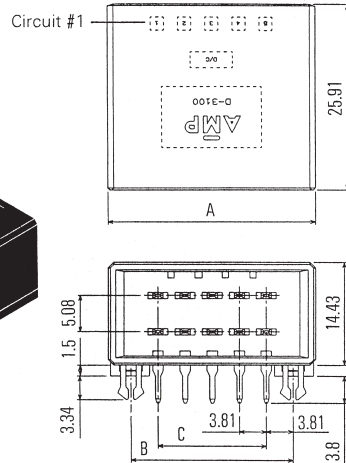
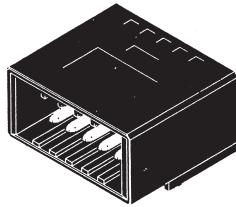
No. of Pos.	Part Number		Dimensions					
	Panel Type	Free-hanging Type	A	B	C	D	E	F
4	—	—	—	—	—	—	—	—
6	178803-3	178964-3	40	31	25.57	21.62	14.62	22.6
10	178803-5	178964-5	47	38	33.19	29.24	22.24	30.2
12	178803-6	178964-6	51	42	37.00	33.05	26.05	34.0
16	178803-7	178964-7	59	50	44.62	40.67	33.67	41.6
20	178803-8	178964-8	67	58	52.62	48.29	41.29	49.2

D-3000 Series (Continued)

D-3100D — Standard 2-Row Type (Continued)

Board-mounting Tab Header (Horizontal Type)

**Mating Receptacle
Housing
Part Number:
178289-□**

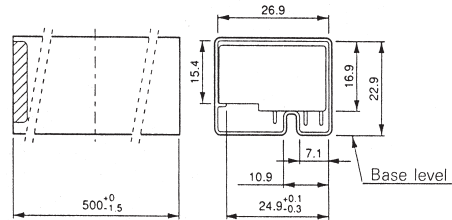


PC Board Layout
Acceptable Board Thickness:
1.6-2.4±0.1

No. of Pos.	Part Number	Dimensions		
		A	B	C
6	178303-□	21.62	15.24	7.62
8	1717412-□	25.43	19.05	11.43
10	178305-□	29.24	22.86	15.24
12	178306-□	33.05	26.67	19.05
16	178307-□	40.67	34.29	26.67
20	178308-□	48.29	41.91	34.29

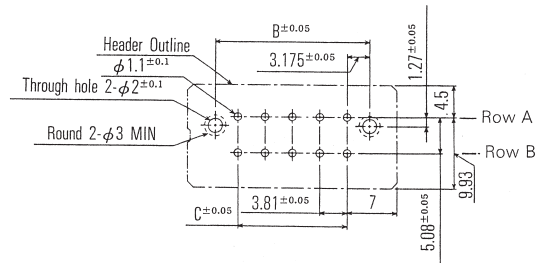
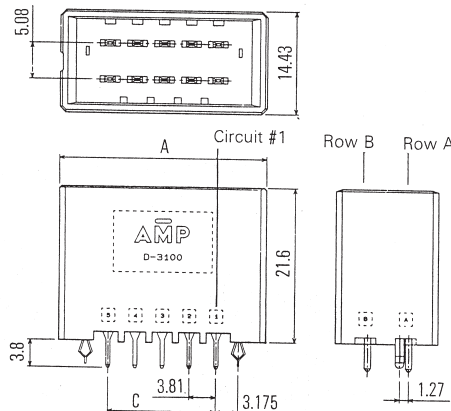
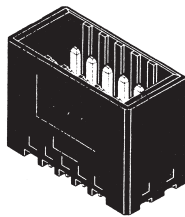
Solder tine section is 0.64 sq.

Tube Package Dimensions (Ref.)



Board-mounting Tab Header (Vertical Type)

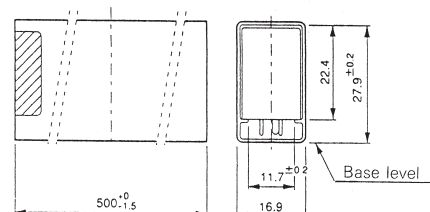
**Mating Receptacle
Housing
Part Number:
178289-□**



PC Board Layout
Acceptable Board Thickness:
1.6-2.4±0.1

No. of Pos.	Part Number	Dimensions		
		A	B	C
6	178323-□	21.62	13.97	7.62
10	178325-□	29.24	21.59	15.24
12	178326-□	33.05	25.4	19.05
16	178327-□	40.67	33.02	26.67
20	178328-□	48.29	40.64	34.29

Tube Package Dimensions (Ref.)

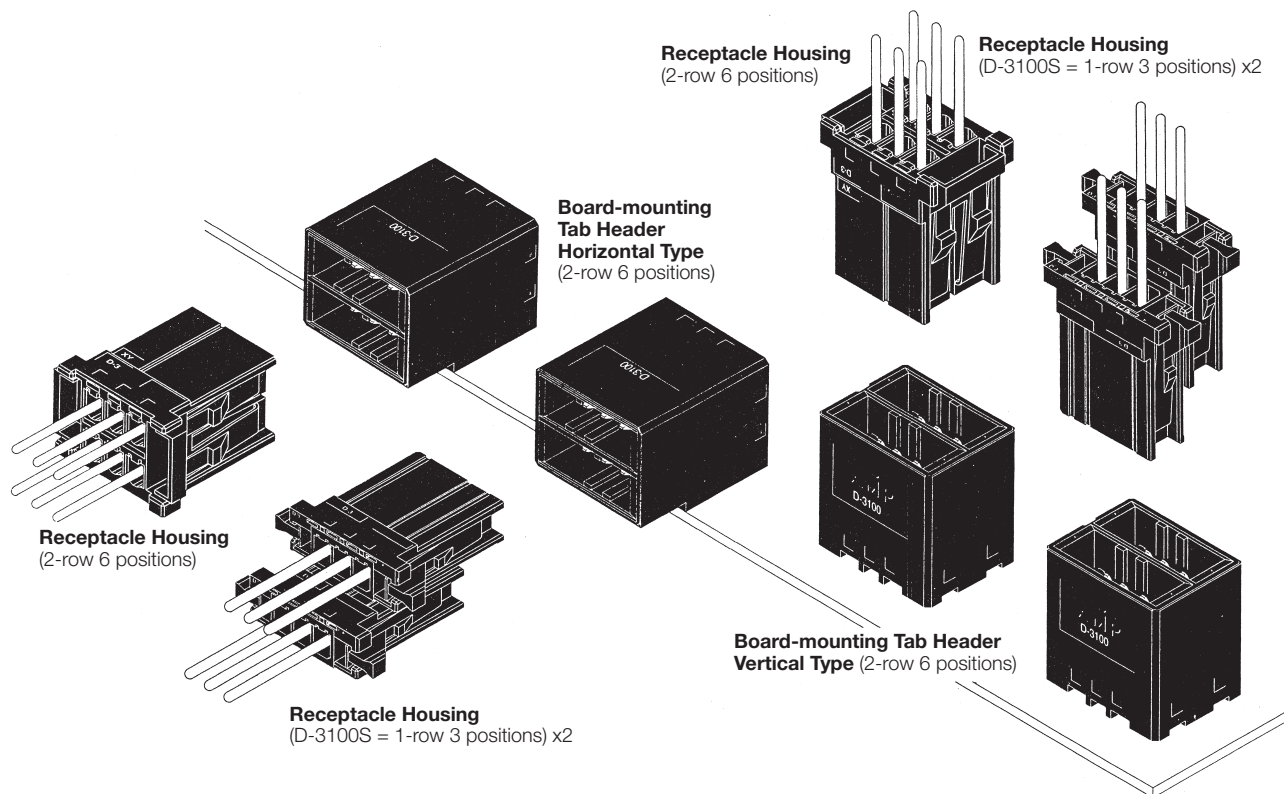


D-3000 Series (Continued)

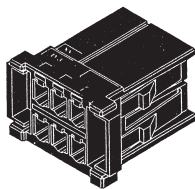
D-3100M — Modular Type

Appearance

Connectors can be used in modular configurations in combination with D-3100S.
Ideally Suited For Allocation of Signal Circuits
Board mounting pitch: Horizontal Type 150x150mils (3.81x3.81mm) /
Vertical Type 150x300mils (3.81x7.62mm)
Dielectric Withstanding Voltage: 1,500V (for one minute)
Voltage Rating: 250 V

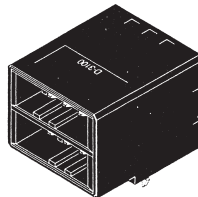


Receptacle Housing

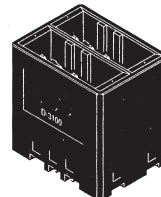


Board-mounting Tab Header

(Horizontal Type)



(Vertical Type)



Part Number Chart

No. of Pos.	Keying	Receptacle Housing	Board-mounting Tab Header	
			Horizontal Type	Vertical Type
6	XX	1-178127-6	1-178137-□	1-178141-□
	YY	2-178127-6	2-178137-□	—
	XY	3-178127-6	3-178137-□	3-178141-□

Note: Enter the following plating codes in -□ after Part Numbers:

- 2 = 0.38μm thick gold plating
- 3 = 0.76μm thick gold plating
- 5 = Tin plating

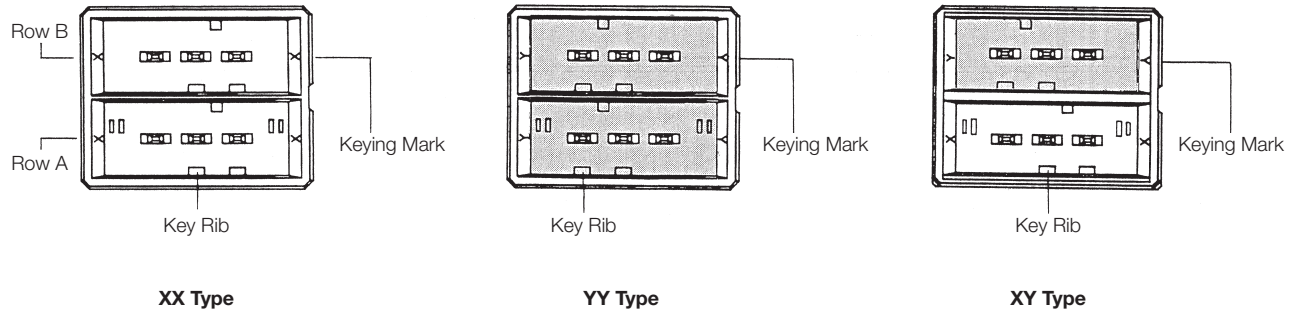
D-3000 Series (Continued)

D-3100M — Modular Type

(Continued)

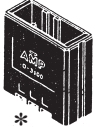
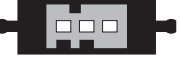
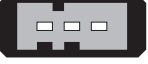
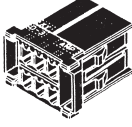
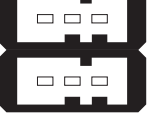
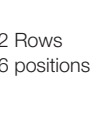
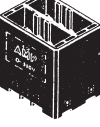
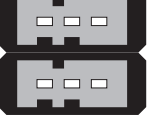
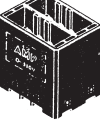
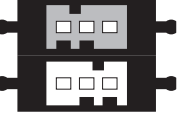
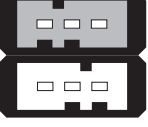
Keying

This product (D-3100M) is provided with keying to help prevent mismatching of connector halves. Keying is available in three types – XX Type, YY Type and XY Type. (Shown below is the mating surface of Tab Header.)



D-3000 Series

Table of Mating Combinations

Receptacle Housing		Board-mounting Tab Header			
		Horizontal Type		Vertical Type	
1 Row 3 positions (D-3100S) 	X Type P/N : 1-178288-3			1 Row 3 positions (D-3100S) 	X Type P/N : 1-178313-□
	Y Type P/N : 2-178288-3			Y Type P/N : 2-178293-□	Y Type P/N : 2-178313-□
2 Rows 6 positions 	XX Type P/N : 1-178127-6			2 Rows 6 positions 	XX Type P/N : 1-178141-□
	XX Type P/N : 2-178127-6			YY Type P/N : 2-178137-□	YY Type
	XY Type P/N : 3-178127-6			XY Type P/N : 3-178137-□	XY Type P/N : 3-178141-□

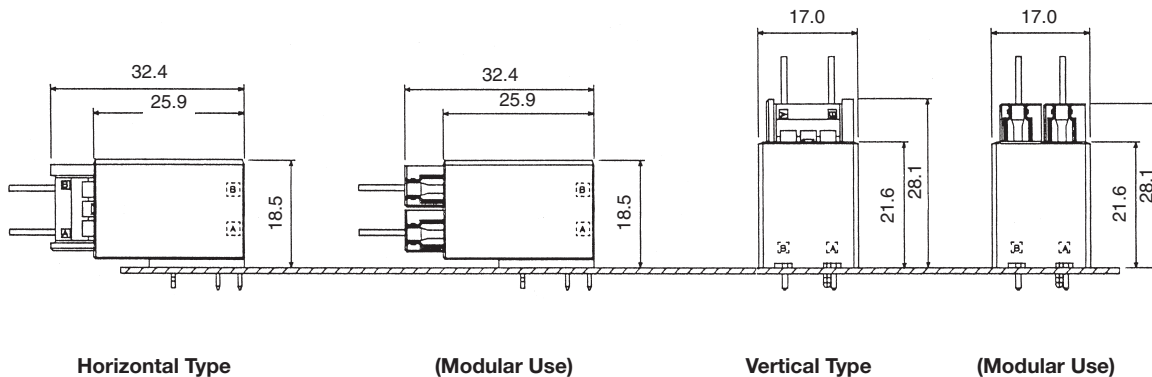
The housing with asterisk (*) same as D-3100S Series.

D-3000 Series (Continued)

D-3100M — Modular Type

(Continued)

Mating Dimensions



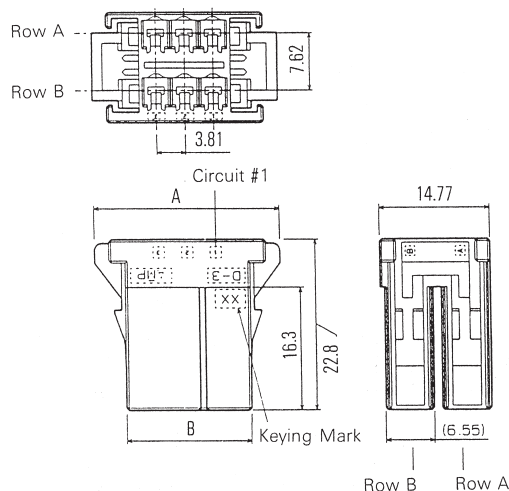
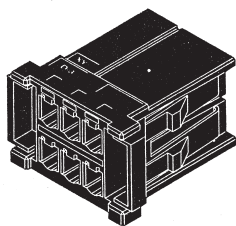
Receptacle Housing

Mating Tab Header

Part Number:

□-178137-□

□-178141-□



No. of Pos.	Part Number	Dimensions	
		A	B
6	□-178127-6	24.76	16.7

Notice:

*Although external or mounting dimensions are described in the catalog, the specifications are subject to change. When selecting products for your requirements, please request the appropriate drawings. Product Specifications, Instruction Sheets, etc., are also available. It is recommended that you request these documents as well.

D-3000 Series (Continued)

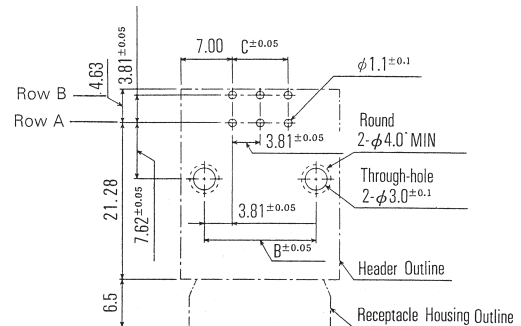
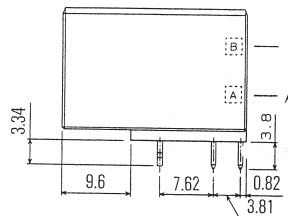
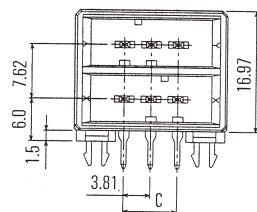
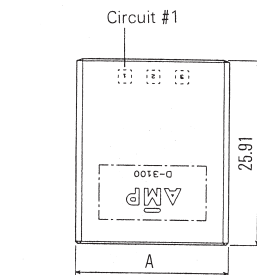
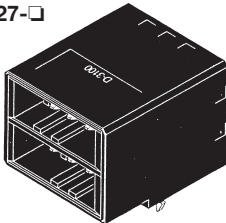
D-3100M — Modular Type

(Continued)

Board-mounting Tab Header (Horizontal Type)

Mating Receptacle Housing
Part Number:

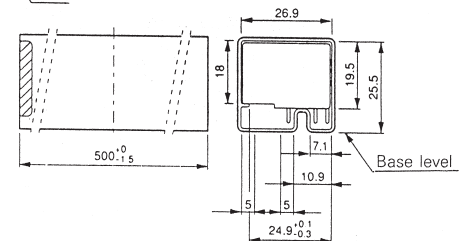
□-178127-□



PC Board Layout

Acceptable Board Thickness:
1.6-2.4±0.1

Tube Package Dimensions (Ref.)

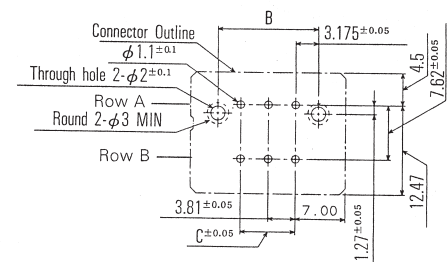
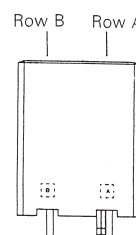
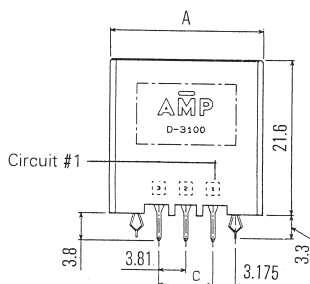
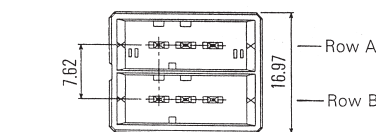
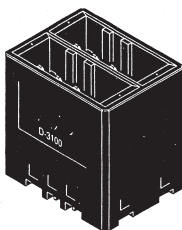


No. of Pos.	Part Number	Dimensions		
		A	B	C
6	□-178137-□	21.62	15.24	7.62

Board-mounting Tab Header (Vertical Type)

Mating Receptacle Housing
Part Number:

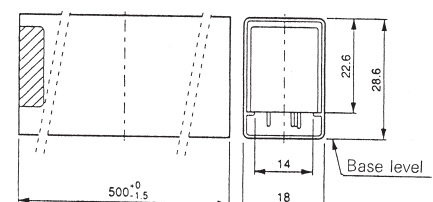
□-178127-□



PC Board Layout

Acceptable Board Thickness:
1.6-2.4±0.1

Tube Package Dimensions (Ref.)

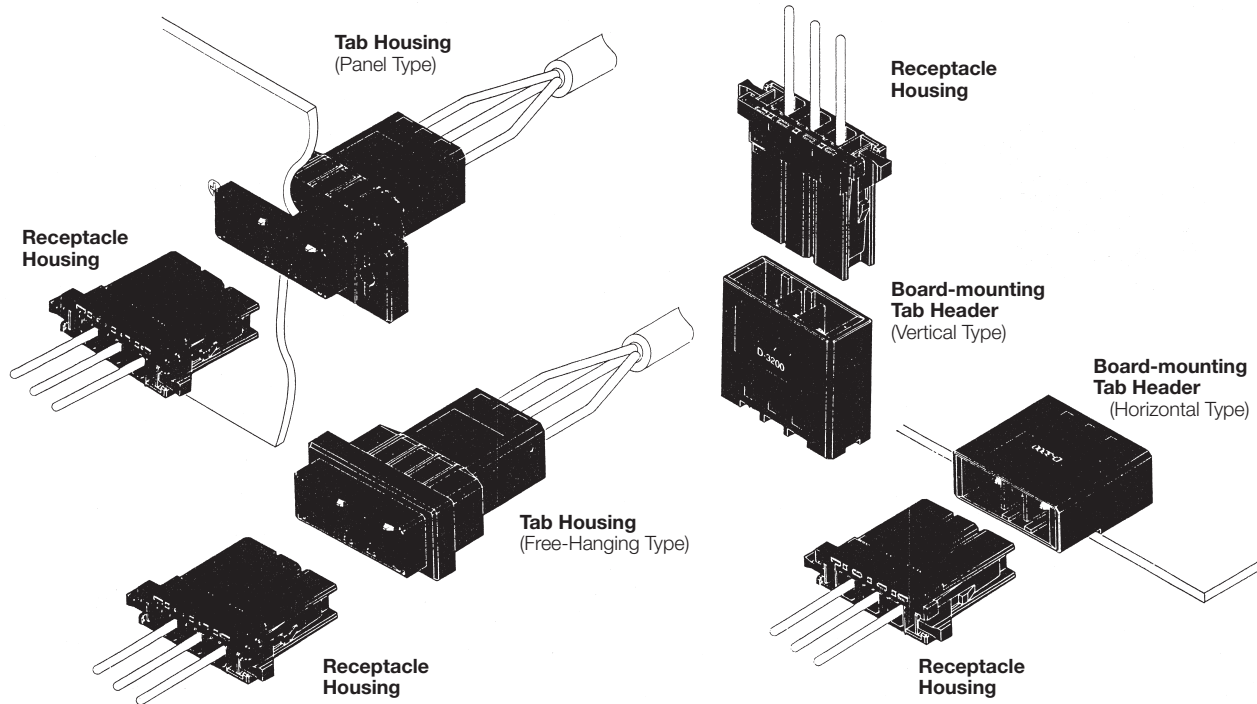


No. of Pos.	Part Number	Dimensions		
		A	B	C
6	□-178141-□	21.62	13.97	7.62

D-3000 Series (Continued)

D-3200S (High-Voltage Version of Standard D-3100S)

Appearance Board mounting pitch: Horizontal Type 200 mills (5.08 mm)
Dielectric Withstanding Voltage: 2,200 V (for one minute)
Voltage Rating: 600 V (per connector)



Receptacle Housing

Tab Housing

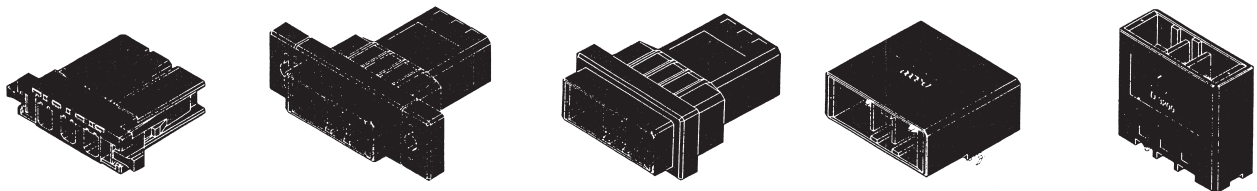
Board-Mounting Tab Header

(Panel Type)

(Free-Hanging Type)

(Horizontal Type)

(Vertical Type)



Part Number Chart

No. of Pos.	Keying	Receptacle Housing	Tab Housing			Board-mounting Tab Header	
			Panel Type	Free-Hanging Type	L Fitting	Horizontal Type	Vertical Type
2	X	1-178128-2	1-179553-2	1-179552-2	S	1-179276-□	1-917337-□
	Y	2-178128-2	2-179553-2	2-179552-2	S	2-179276-□	2-917337-□
3	X	1-178128-3*1	1-179553-3	1-179552-3	S	1-178138-□	1-178136-□
	Y	2-178128-3*1	2-179553-3	2-179552-3	S	2-178138-□	2-178136-□
	Z	3-178128-3*1	—	—	S	—	3-178136-5**
4	X	1-178128-4	1-179553-4	1-179552-4	S	1-179277-□	1-917338-□
	Y	2-178128-4	2-179553-4	2-179552-4	S	2-179277-□	2-917338-□
5	X	1-178128-5*1	Use 2-row 6 position D-3200M, in place 5 and 6 position Panel and Free-hanging Types.			1-316130-□	1-316132-□
	Y	2-178128-5*1				2-316130-□	2-316132-□
6	X	1-178128-6*1				1-316131-□	1-316133-□
	Y	2-178128-6*1				2-316131-□	2-316133-□

Note: Enter the following plating codes in -□ after Part Numbers:
-2 = 0.38μm thick gold plating, -3 = 0.76μm thick gold plating,
-5 = Tin plating

*1 can also be used in modular configuration with D-3200M
Tab Housing and Tab Header.

**Tin plating Only.

D-3000 Series (Continued)

D-3200S **(High-Voltage Version of** **Standard D-3100S)** (Continued)

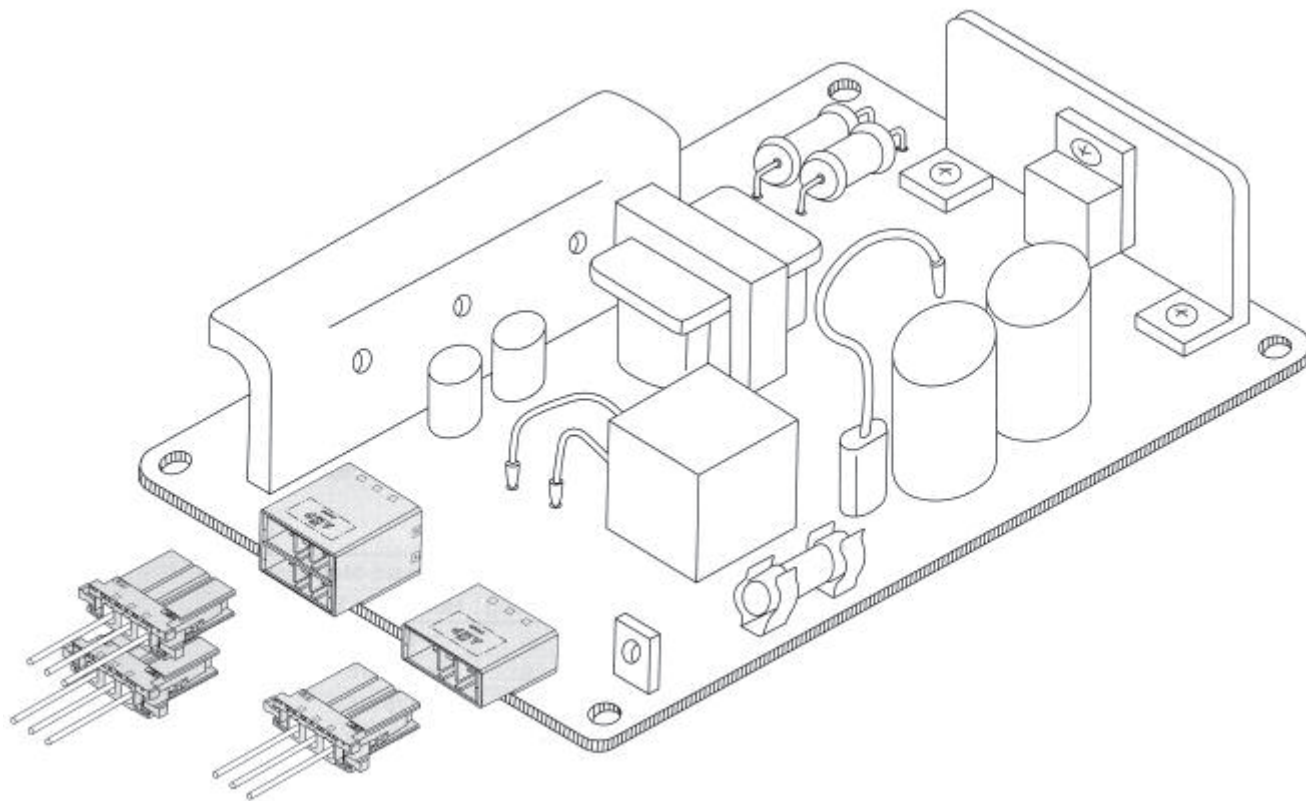
Keying

This product (D-3200S) is provided with keying to help prevent mismatching of the connector halves. Keying is available in two types – X Type and Y Type . (Shown below is the mating surface of Tab Header.)



Applications

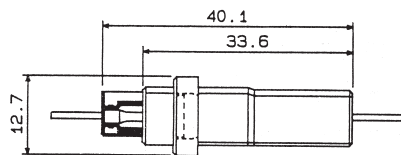
Switching regulator-Typical Applications



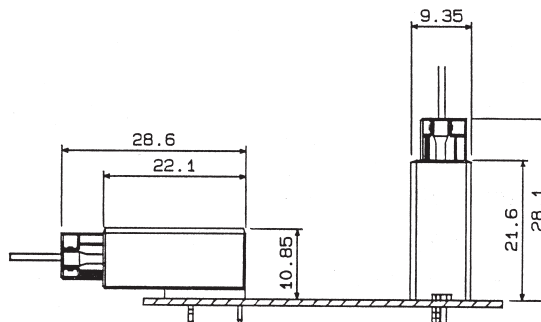
D-3000 Series (Continued)

D-3200S (High-Voltage Version of Standard D-3100S) (Continued)

Mating Dimensions

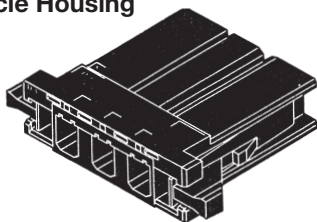


Panel/Free-Hanging Type



Horizontal/Vertical Type

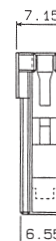
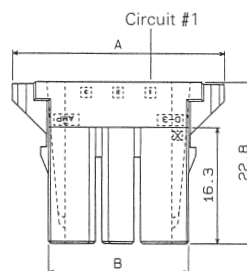
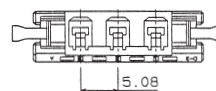
External Dimensions Receptacle Housing



Mating Tab Connector

Part Number:

- | | |
|------------|------------|
| □-179553-□ | □-316131-□ |
| □-179552-□ | □-917337-□ |
| □-179276-□ | □-178136-□ |
| □-178138-□ | □-917338-□ |
| □-179277-□ | □-316132-□ |
| □-316130-□ | □-316133-□ |



5-and 6-position receptacle housings differ slightly in shape with each other. Check with diagram.

No. of Pos.	Part Number	Dimensions	
		A	B
2	□-178128-2	24.62	14.16
3	□-178128-3	29.7	19.24
4	□-178128-4	34.78	24.32
5	□-178128-5	39.86	29.4
6	□-178128-6	44.94	34.48

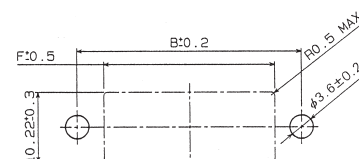
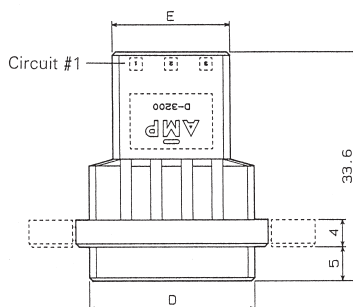
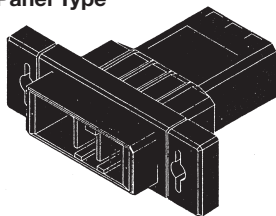
Tab Housing

Mating Receptacle Housing

Part Number:

- 178128-□

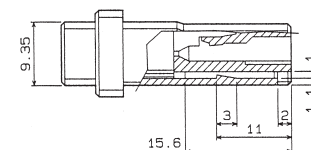
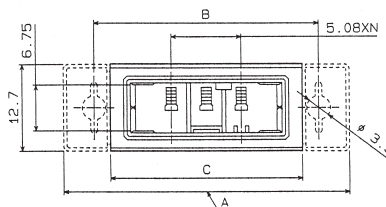
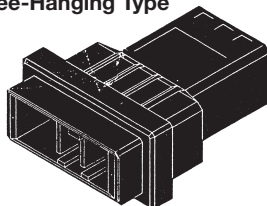
Panel Type



Panel Cutout

When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].

Free-Hanging Type



No. of Pos.	Part Number		Dimensions					
	Panel Type	Free-Hanging Type	A	B	C	D	E	F
2	□-179553-2	□-179552-2	36.83	28	23.03	19.08	12.08	20
3	□-179553-3	□-179552-3	41.91	33	28.11	24.16	17.16	25
4	□-179553-4	□-179552-4	46.99	38	33.19	29.24	22.24	30

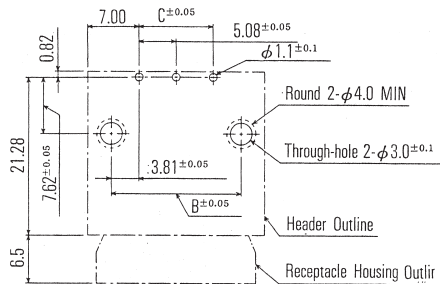
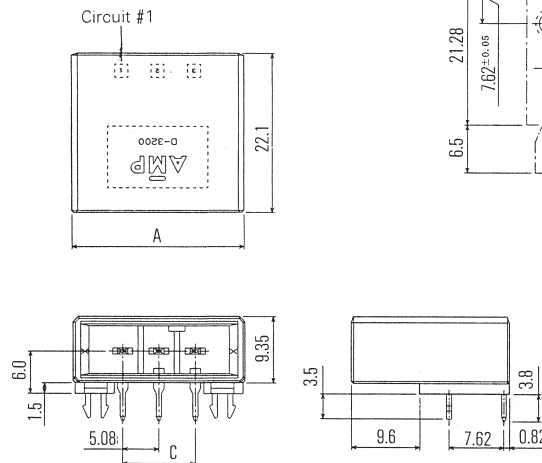
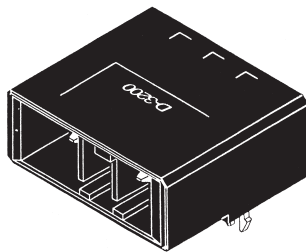
D-3000 Series (Continued)

D-3200S (High-Voltage Version of Standard D-3100S) (Continued)

Board-mounting Tab Header (Horizontal Type)

Mating Receptacle Housing
Part Number:

□-178128-□



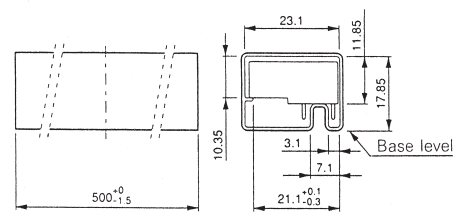
PC Board Layout

Acceptable Board Thickness:
1.6-2.4±0.1

Solder time section is 0.64 sq.

No. of Pos.	Part Number	Dimensions		
		A	B	C
2	□-179276-□	19.08	12.7	5.08
3	□-178138-□	24.16	17.78	10.16
4	□-179277-□	29.24	22.86	15.24
5	□-316130-□	34.32	27.84	20.32
6	□-316131-□	39.4	33.02	25.4

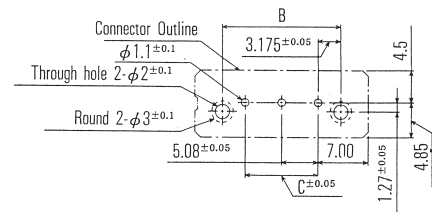
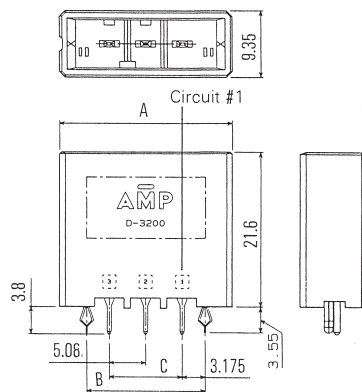
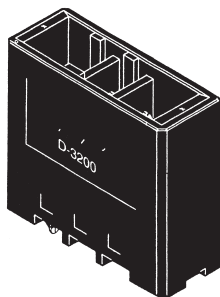
Tube Package Dimensions (Ref.)



Board-mounting Tab Header (Vertical Type)

Mating Receptacle Housing
Part Number:

□-178128-□



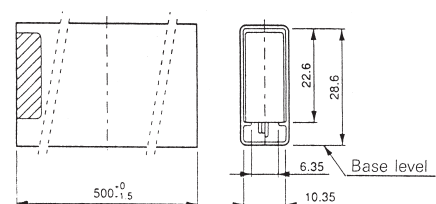
PC Board Layout

Acceptable Board Thickness:
1.6-2.4±0.1

Solder time section is 0.64 sq.

No. of Pos.	Part Number	Dimensions		
		A	B	C
2	□-917337-□	19.08	11.43	5.08
3	□-178136-□	24.16	16.51	10.16
4	□-917338-□	29.24	21.59	15.24
5	□-316132-□	34.32	26.67	20.32
6	□-316133-□	39.4	31.75	25.4

Tube Package Dimensions (Ref.)



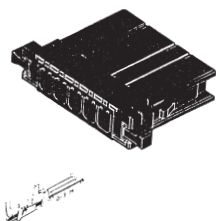
D-3000 Series (Continued)

D-3200S SMT Type

Receptacle Housing and Board Mount Tab Header

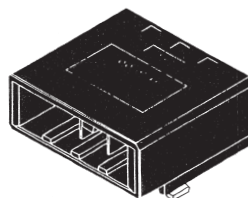
Appearance Dielectric Withstanding Voltage: 2,200 V (1 min.)
Voltage Rating: 600 V (when one connector is used)

Receptacle Housing



Board-Mounting Tab Header

(Horizontal Type)



Receptacle Contact.....For each line of contacts, refer to the appropriate page.

No. of Positions	Keying	Part Number of Receptacle Housing*	Part Number of Board-Mount Tab Header
			Horizontal Type
2	X	1-178128-2	—
3	X	1-178128-3	1-917389-□
4	X	1-178128-4	—
5	X	1-178128-5	—
6	X	1-178128-6	—

Note: Enter the following plating codes in Part Number suffix-□. Gold plating only for SMT Type.

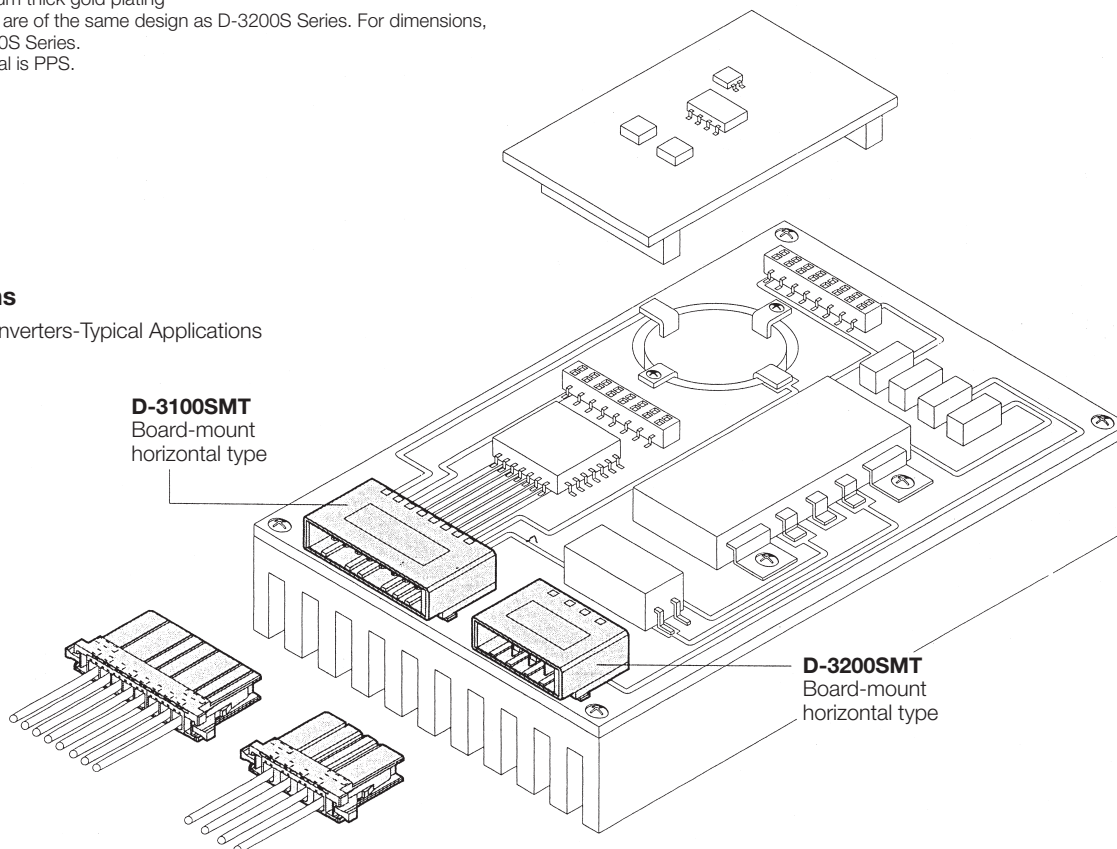
-2 = 0.38μm thick gold plating,

-3 = 0.76μm thick gold plating

*Part Numbers are of the same design as D-3200S Series. For dimensions, refer to D-3200S Series.
Header material is PPS.

Applications

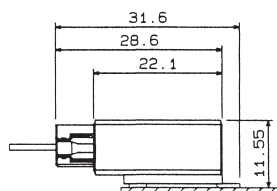
Servomotors/Inverters-Typical Applications



D-3000 Series (Continued)

D-3200S SMT Type (Continued)

Mating Dimensions

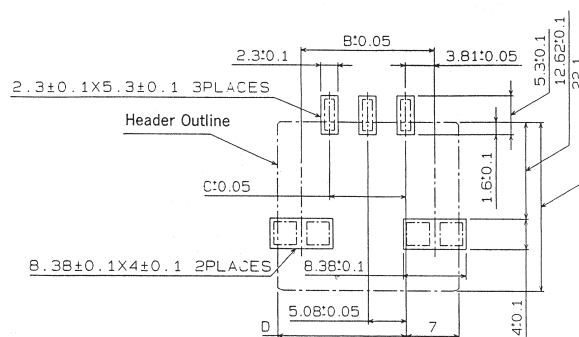
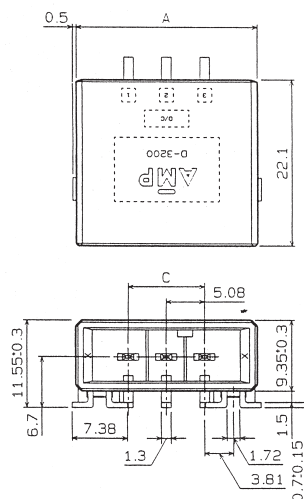
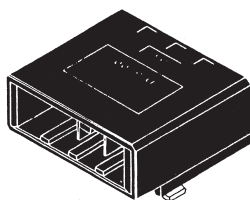


Horizontal Type

External Dimensions

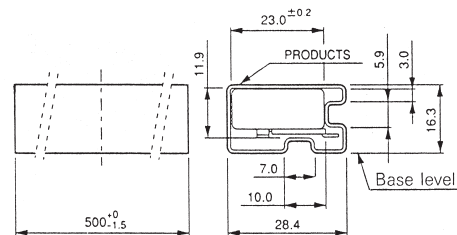
Board-mount Tab Header (Horizontal Type)

Mating Receptacle Housing
Part Number:
1-178128-3



PC Board Layout

Tube Package Dimensions (Ref.)



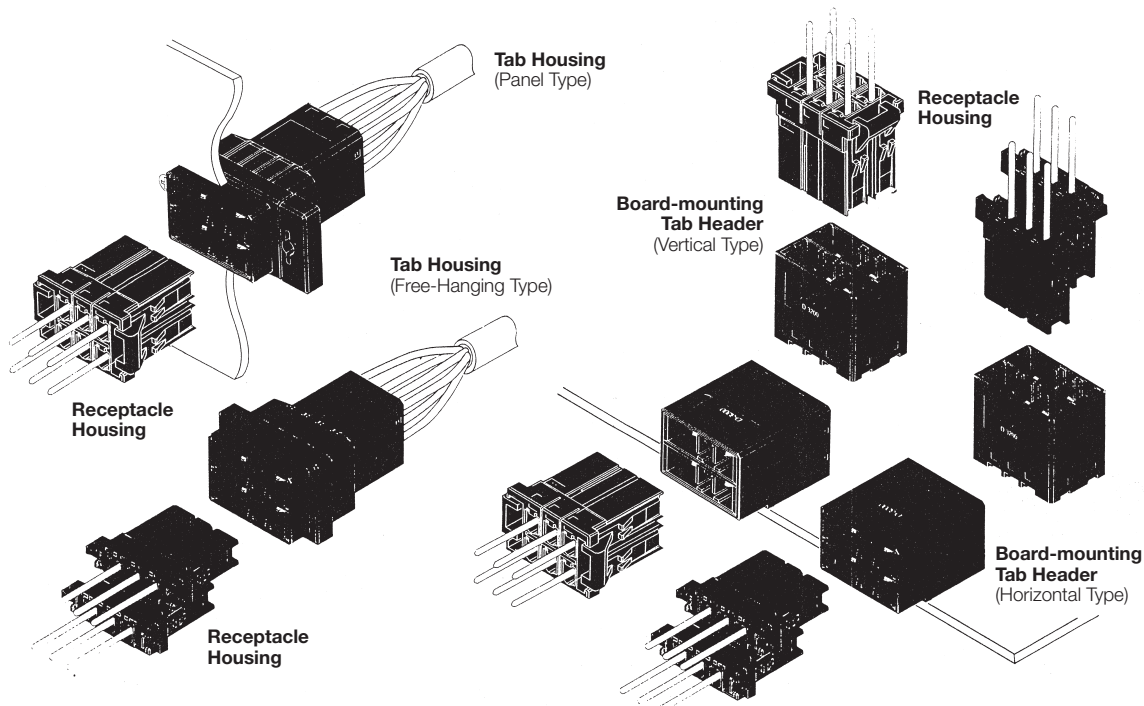
No. of Pos.	Part Number of Tab Header	Dimensions			
		A	B	C	D
3	1-917389-□	24.16	17.78	10.16	17.16

D-3000 Series (Continued)

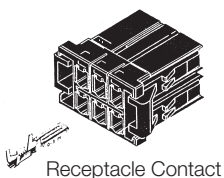
D-3200M — Modular Type

Appearance

Connectors can be used in modular configurations in combination with D-3200S. Ideally suited for allocation of power circuits.
Board mounting pitch: Horizontal Type 200 x 200 mils (5.08 x 5.08 mm)
Vertical Type 200 x 300 mils (5.08 x 7.62 mm)
Dielectric Withstanding Voltage: 2,200 V (for one minute)
Voltage Rating: 600 V (per connector)



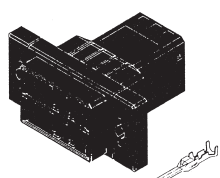
Receptacle Housing



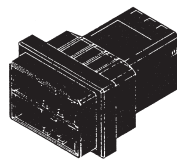
Receptacle Contact

Tab Housing

(Panel Type)



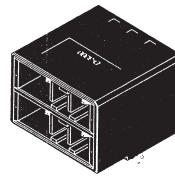
(Free-Hanging Type)



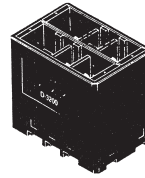
Tab Contact.....For each line of contacts, refer to the appropriate page.

Board-mounting Tab Header

(Horizontal Type)



(Vertical Type)



Part Number Chart

No. of Pos.	Keying	Receptacle Housing	Tab Housing*			Board-Mounting Tab Header*	
			Panel Type	Free-Hanging Type	L Fitting	Horizontal Type	Vertical Type
6	XX	1-178129-6	1-179555-3	1-179554-3	S	1-178139-□	1-178140-□
	YY	2-178129-6	2-179555-3	2-179554-3	S	2-178139-□	2-178140-□
	XY	3-178129-6	3-179555-3	3-179554-3	S	3-178139-□	3-178140-□
	ZZ	—	—	—	S	5-178139-5**	—
	ZX	—	—	—	S	6-178139-5**	—
10	XX	1-917659-5	—	—	—	1-316080-□	1-917657-□
	YY	2-917659-5	—	—	—	2-316080-□	2-917657-□
	XY	3-917659-5	—	—	—	3-316080-□	3-917657-□
12	XX	1-917659-6	1-179555-6	1-179554-6	—	1-316081-□	1-917658-□
	YY	2-917659-6	2-179555-6	2-179554-6	—	2-316081-□	2-917658-□
	XY	3-917659-6	3-179555-6	3-179554-6	—	3-316081-□	3-917658-□
20	XX	1-917659-8	1-179555-8	—	—	—	—

Note: Enter the following plating codes in -□ after Part Numbers: -2 = 0.38μm thick gold plating, -3 = 0.76μm thick gold plating, -5 = Tin plating

*Can also be used in Drawer connector in combination with D-3200M Drawer Type.

**Receptacle shall be used in combination of X keying and Z keying of 3 pos. D-3200S.

D-3000 Series (Continued)

D-3200M — Modular Type

(Continued)

Keying

This product (D-3200M) is provided with keying to help prevent mismatching of the connector halves. Keying is available in three types —XX Type, YY Type and XY Type. (Shown below is the mating surface of Tab Header.) ZZ type and ZX type keying are also available for 6 pos.

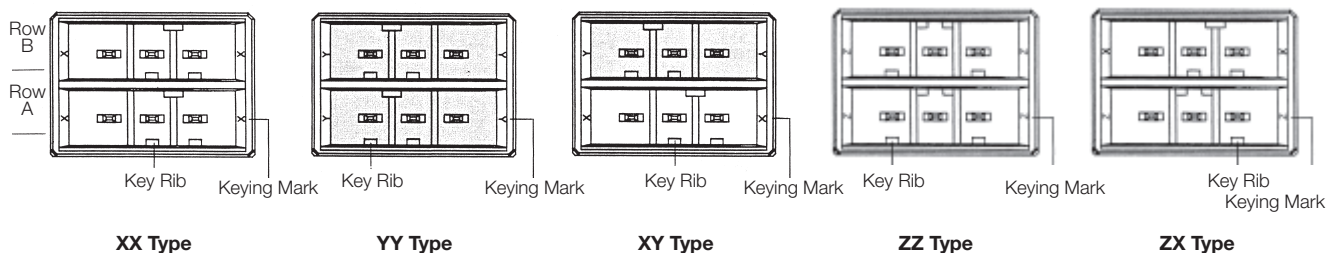


Table of Mating Combinations

Receptacle Housing		Tab Housing		Board-mounting Tab Header	
1 Row 3 Positions (D-3200S) *	X Type	1 Row, (D-3200S) Panel Type * Free-Hanging Type	X Type Panel Type Free-Hanging Type	1 Row, (D-3200S) Horizontal Type *	X Type Horizontal Type Vertical Type
	Y Type		Y Type Panel Type Free-Hanging Type	Vertical Type *	Y Type Horizontal Type Vertical Type
2 Rows 6 Positions	XX Type	2 Rows Panel Type * Free-Hanging Type	XX Type Panel Type Free-Hanging Type	2 Rows Horizontal Type	XX Type Horizontal Type Vertical Type
	YY Type		YY Type Panel Type Free-Hanging Type	Vertical Type	YY Type Horizontal Type Vertical Type
	XY Type		XY Type Panel Type Free-Hanging Type	Vertical Type	XY Type Horizontal Type Vertical Type

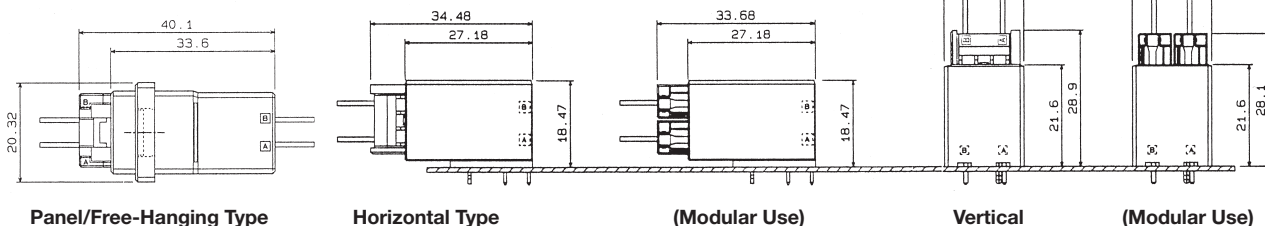
The housing with asterisk (*) same as D-3200S Series.

D-3000 Series (Continued)

D-3200M — Modular Type

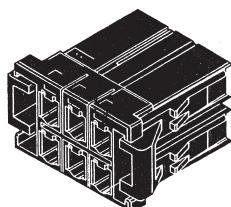
(Continued)

Mating Dimensions



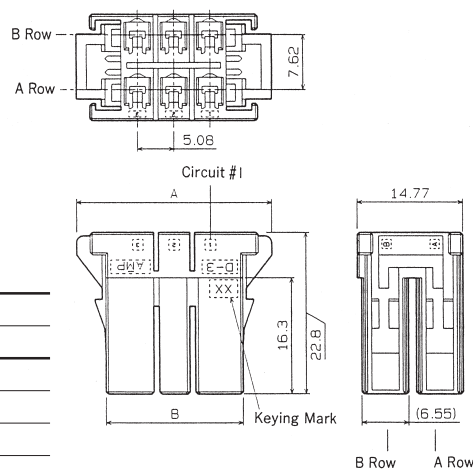
External Dimensions

Receptacle Housing



Mating Receptacle Housing
Part Number:

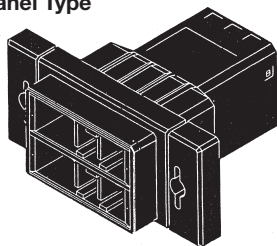
☐-178139-☐ ☐-917657-☐
☐-316080-☐ ☐-917658-☐
☐-316081-☐ ☐-179555-☐
☐-178140-☐ ☐-179554-☐



No. of Pos.	Part Number	Dimensions	
		A	B
6	□-178129-6	27.3	19.24
10	□-917659-5	37.46	29.4
12	□-917659-6	42.54	34.48
20	□-917659-8	62.86	54.8

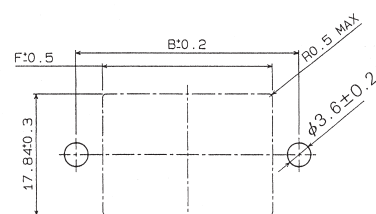
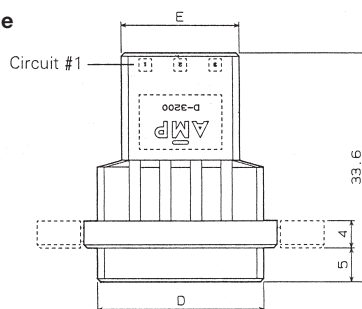
Tab Housing

Panel Type



Mating Receptacle Housing

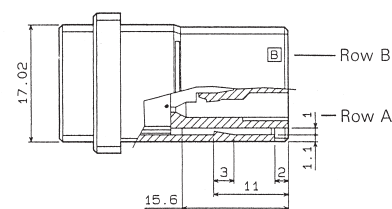
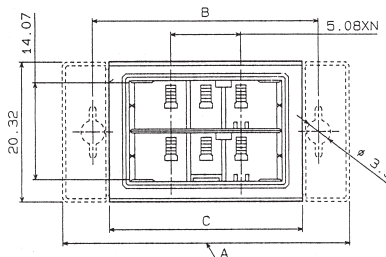
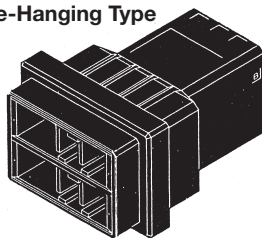
Part Number:
☐-178129-☐
☐-917659-☐



Panel Cutout

When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].

Free-Hanging Type



No. of Pos.	Part Number		Dimensions					
	Panel Type	Free-Hanging Type	A	B	C	D	E	F
6	□-179555-3	□-179554-3	41.91	33	28.11	24.16	17.16	25
12	□-179555-6	□-179554-6	57.91	49	43.35	39.4	32.4	41
20	□-179555-8	—	78.23	70	—	59.72	52.72	61

D-3000 Series (Continued)

D-3200M — Modular Type

(Continued)

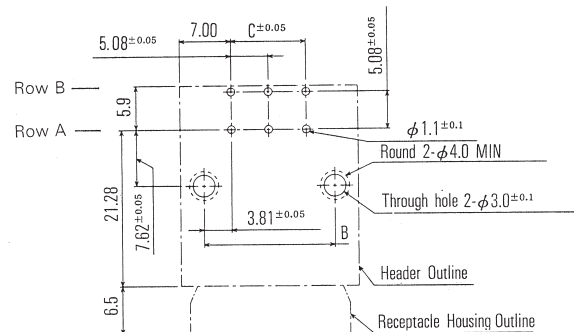
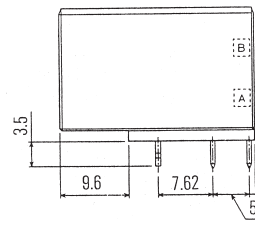
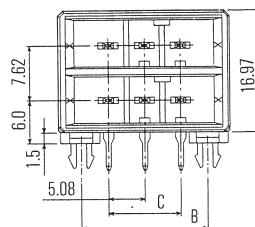
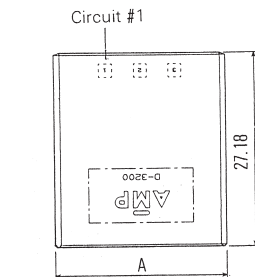
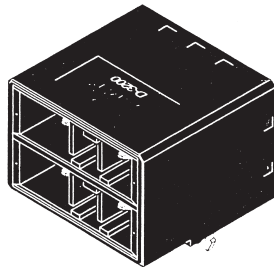
Board-mounting Tab Header (Horizontal Type)

Mating Receptacle Housing

Part Number:

□-178129-□

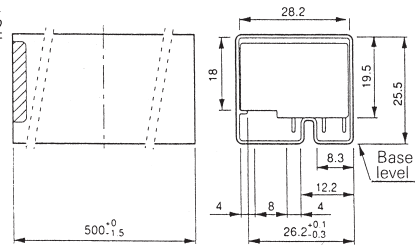
□-917659-□



PC Board Layout

Acceptable Board Thickness:
1.6-2.4±0.1

Tube Package Dimensions (Ref.)



No. of Pos.	Part Number	Dimensions		
		A	B	C
6	□-178139-□	24.16	17.78	10.16
10	□-316080-□	34.32	27.94	20.32
12	□-316081-□	39.4	33.02	25.4

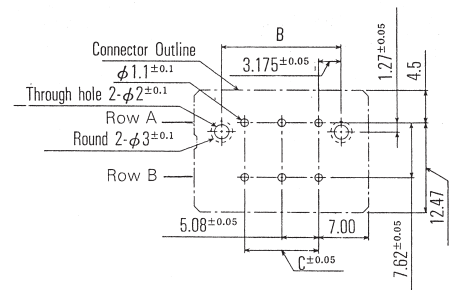
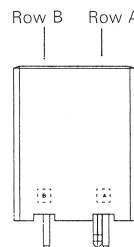
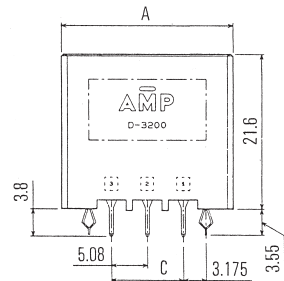
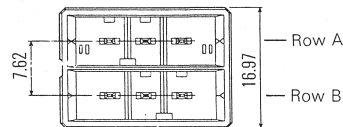
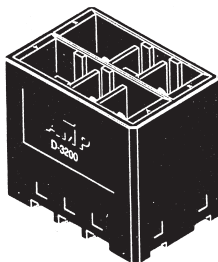
Board-mounting Tab Header (Vertical Type)

Mating Receptacle Housing

Part Number:

□-178129-□

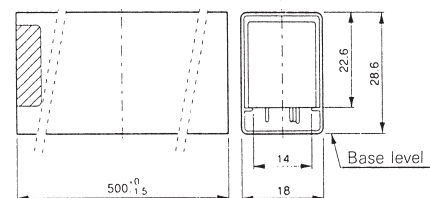
□-917659-□



PC Board Layout

Acceptable Board Thickness:
1.6-2.4±0.1

Tube Package Dimensions (Ref.)



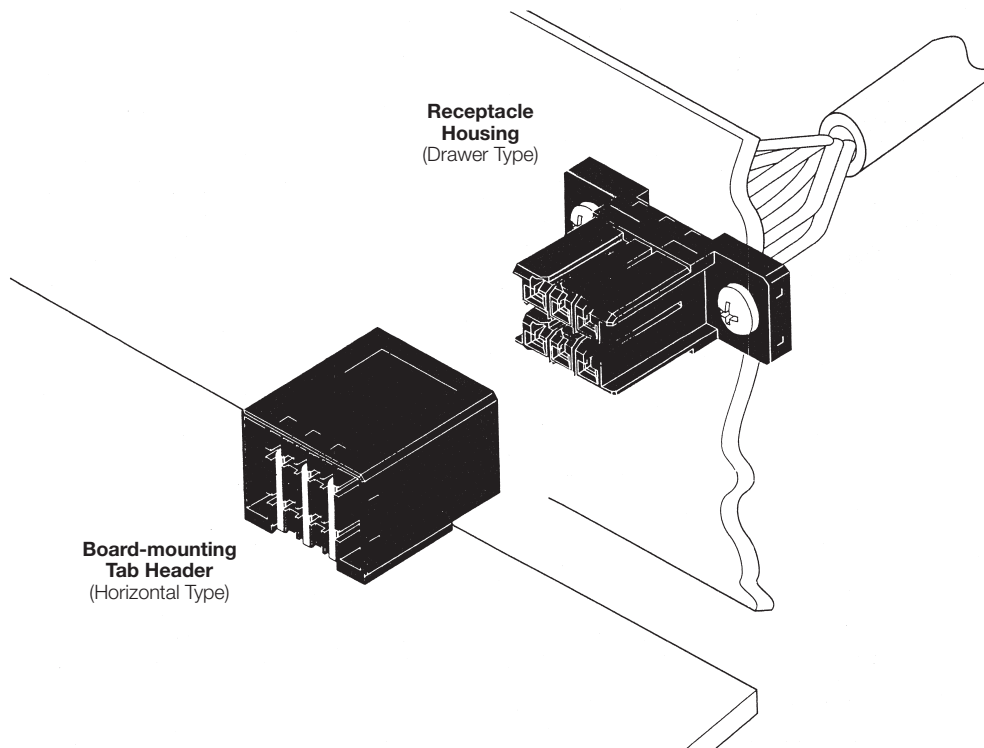
No. of Pos.	Part Number	Dimensions		
		A	B	C
6	□-178140-□	24.16	16.51	10.16
10	□-917657-□	34.32	26.67	20.32
12	□-917658-□	39.4	31.75	25.4

D-3000 Series (Continued)

D-3200M — Drawer Type

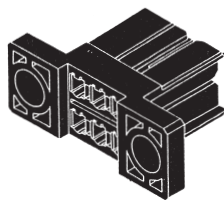
Appearance

Board mounting pitch: Horizontal Type 200 x 200 mils (5.08 x 5.08 mm)
Vertical Type 200 x 300 mils (5.08 x 7.62 mm)
Dielectric Withstanding Voltage: 2,200 V (for one minute) Voltage Rating: 600 V (per connector)



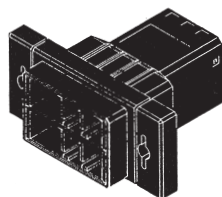
Receptacle Housing

(Drawer Type)

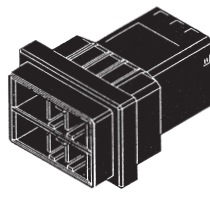


Tab Housing

(Panel Type)

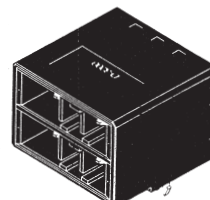


(Free-hanging Type)

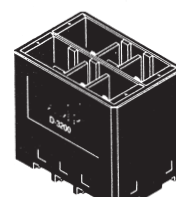


Board-mounting Tab Header

(Horizontal Type)



(Vertical Type)



Part Number Chart

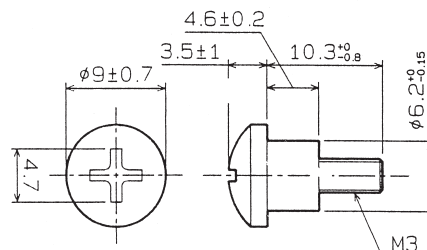
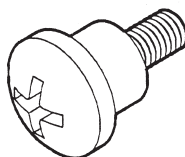
No. of Pos.	Keying	Receptacle Housing (Drawer Type)	Tab Housing*		Board-mounting Tab Header*	
			Panel Type	Free-Hanging Type	Horizontal Type	Vertical Type
6	XX	1-917266-3	1-179555-3	1-179554-3	1-178139-□	1-178140-□
	YY	—	2-179555-3	2-179554-3	2-178139-□	2-178140-□
	XY	—	3-179555-3	3-179554-3	3-178139-□	3-178140-□

Note: Enter the following plating codes in -□ after Part Numbers:
-2 = 0.38µm thick gold plating, -3 = 0.76µm thick gold plating,
-5 = Tin plating

Panel Mounting Screw

Part Number

900167-1

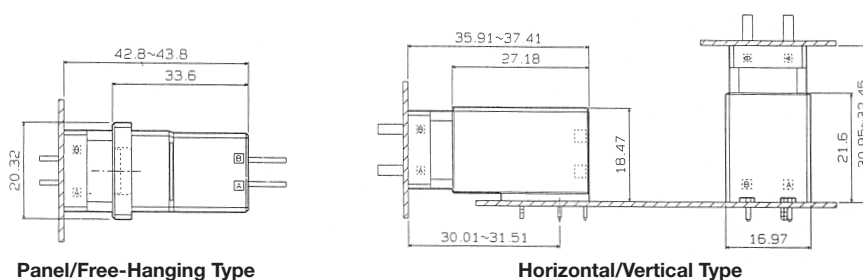


D-3000 Series (Continued)

D-3200M — Drawer Type

(Continued)

Mating Dimensions



External Dimensions

Receptacle Housing

Mating Tab Connector

Part Number:

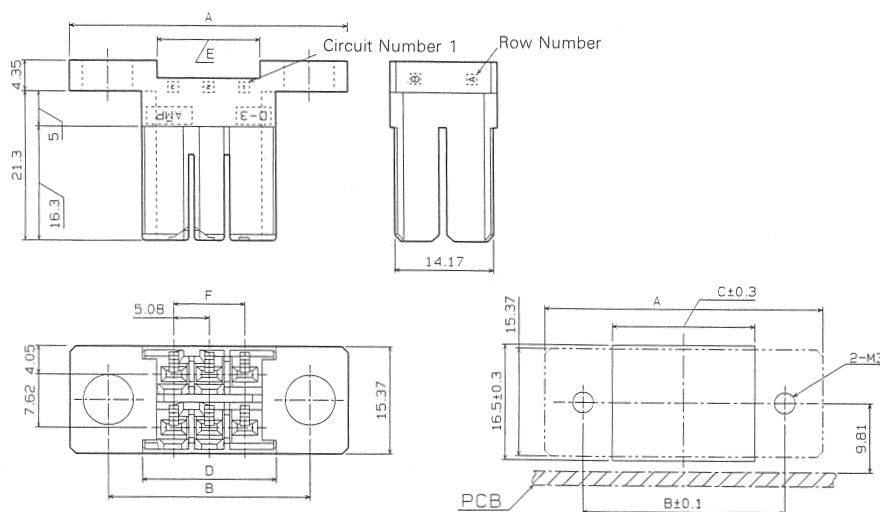
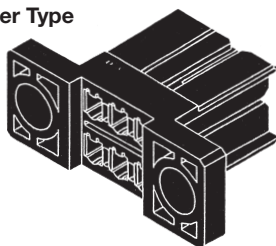
☐-179555-☐

☐-179554-☐

☐-178139-☐

□-178140-□

Drawer Type



No. of Pos.	Part Number	Dimensions					
		A	B	C	D	E	F
6	□-917266-3	40	29	20.5	19.24	14.76	10.16

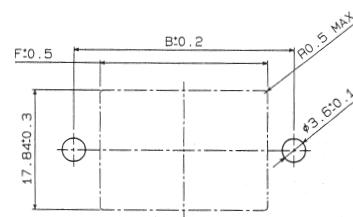
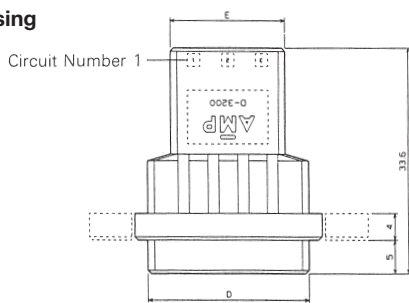
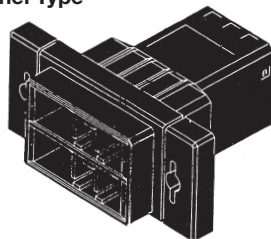
Tab Housing

Mating Receptacle Housing

Part Number:

☐-917266-☐

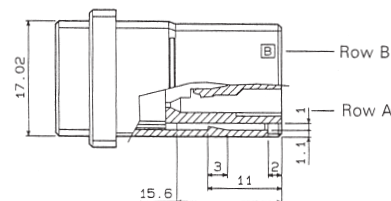
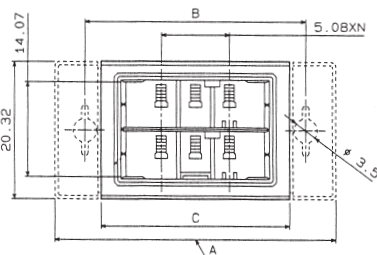
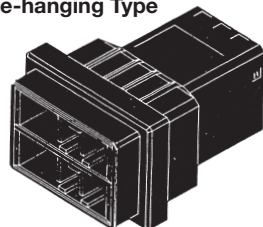
Panel Type



Panel Cutout

When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].

Free-hanging Type



No. of Pos.	Part Number		Dimensions					
	Panel Type	Free-hanging Type	A	B	C	D	E	F
6	□-179555-3	□-179554-3	41.91	33	28.11	24.16	17.16	25

D-3000 Series (Continued)

D-3200M — Drawer Type

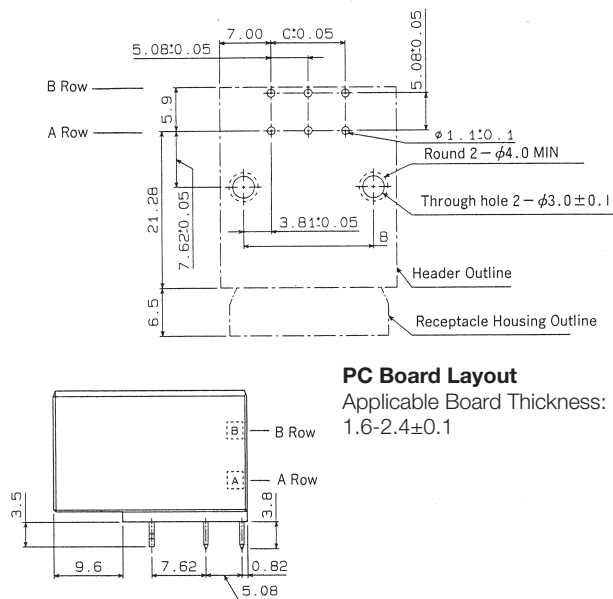
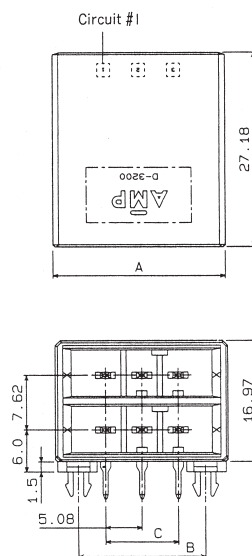
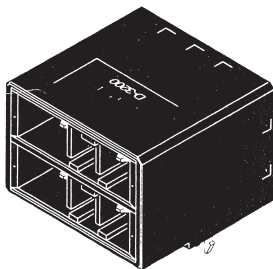
(Continued)

Board-mounting Tab Header (Horizontal Type)

Mating Receptacle Housing

Part Number:

□-917266-□



PC Board Layout

Applicable Board Thickness:
1.6-2.4±0.1

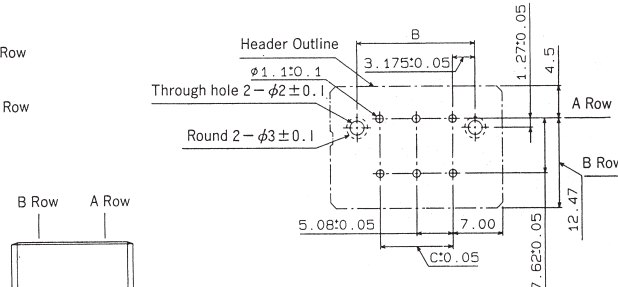
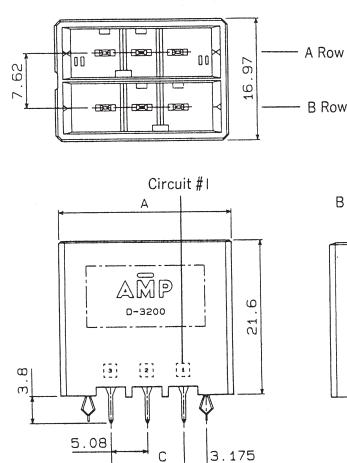
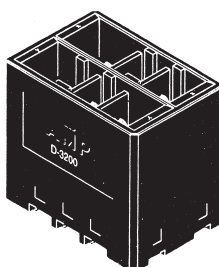
No. of Pos.	Part Number	Dimensions		
		A	B	C
6	□-178139-□	24.16	17.78	10.16

Board-mounting Tab Header (Vertical Type)

Mating Receptacle Housing

Part Number:

□-917266-□



PC Board Layout

Applicable Board Thickness:
1.6-2.4±0.1

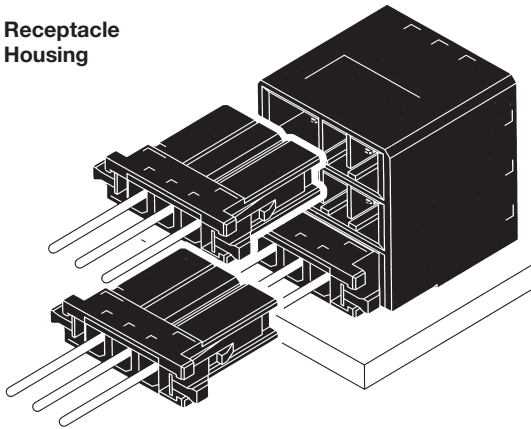
No. of Pos.	Part Number	Dimensions		
		A	B	C
6	□-178140-□	24.16	16.51	10.16

D-3000 Series (Continued)

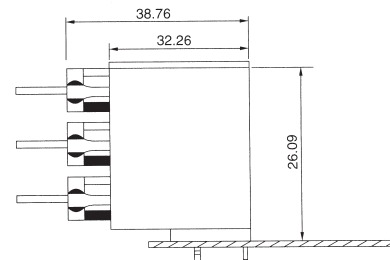
D-3200T — 3-Row Type

Appearance Board-mounting pitch: Horizontal Type 200 x 200mils (5.08 x 5.08mm)
Dielectric Withstanding Voltage: 2,200 V (for one minute) Voltage Rating: 600 V (per connector)

Receptacle Housing



Mating Dimensions



Horizontal Type

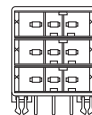
Part Number Chart

No. of Pos.	Keying	Board-mounting Tab Header
		Horizontal Type
9	XXX	1-1123624-□
	XXY	3-1123624-□
	YYX	4-1123624-□
	YXX	5-1123624-□

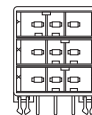
Note: Enter following plating codes in □ after Part Numbers:
-2 : 0.38µm thick gold plating
-5 : Tin plating

Keying

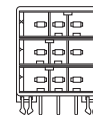
This product (D-3200T) is provided with keying to help prevent mismatching of the connector halves. Keying is available in four types-XXX Type, XXY Type, YYX Type and YXX Type. (Shown below is the mating surface of Tab Header.)



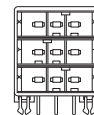
XXX Type



XXY Type



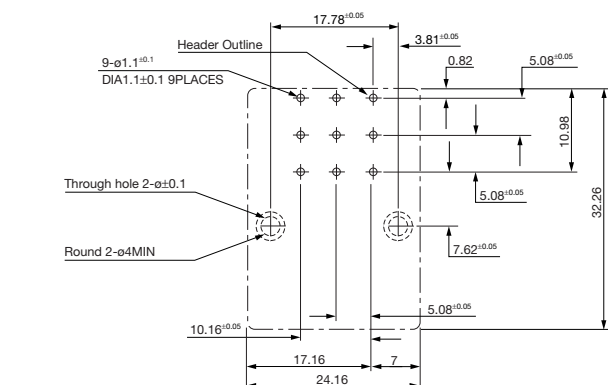
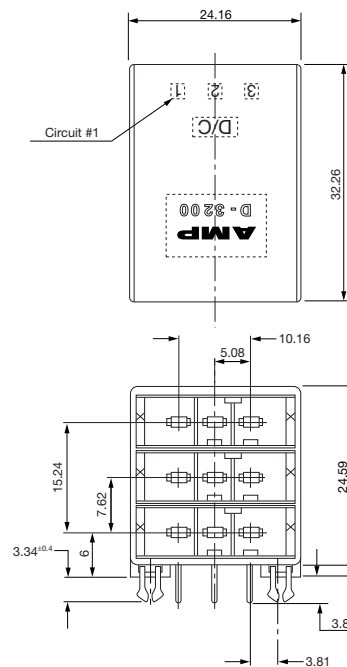
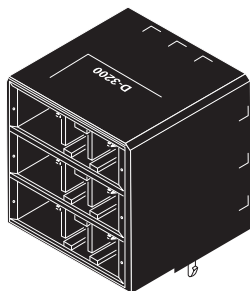
YYX Type



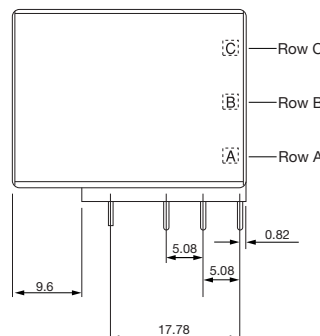
YXX Type

Board-mount Tab Header (Horizontal Type)

Mating Receptacle Housing
Part Number:
□-178128-3



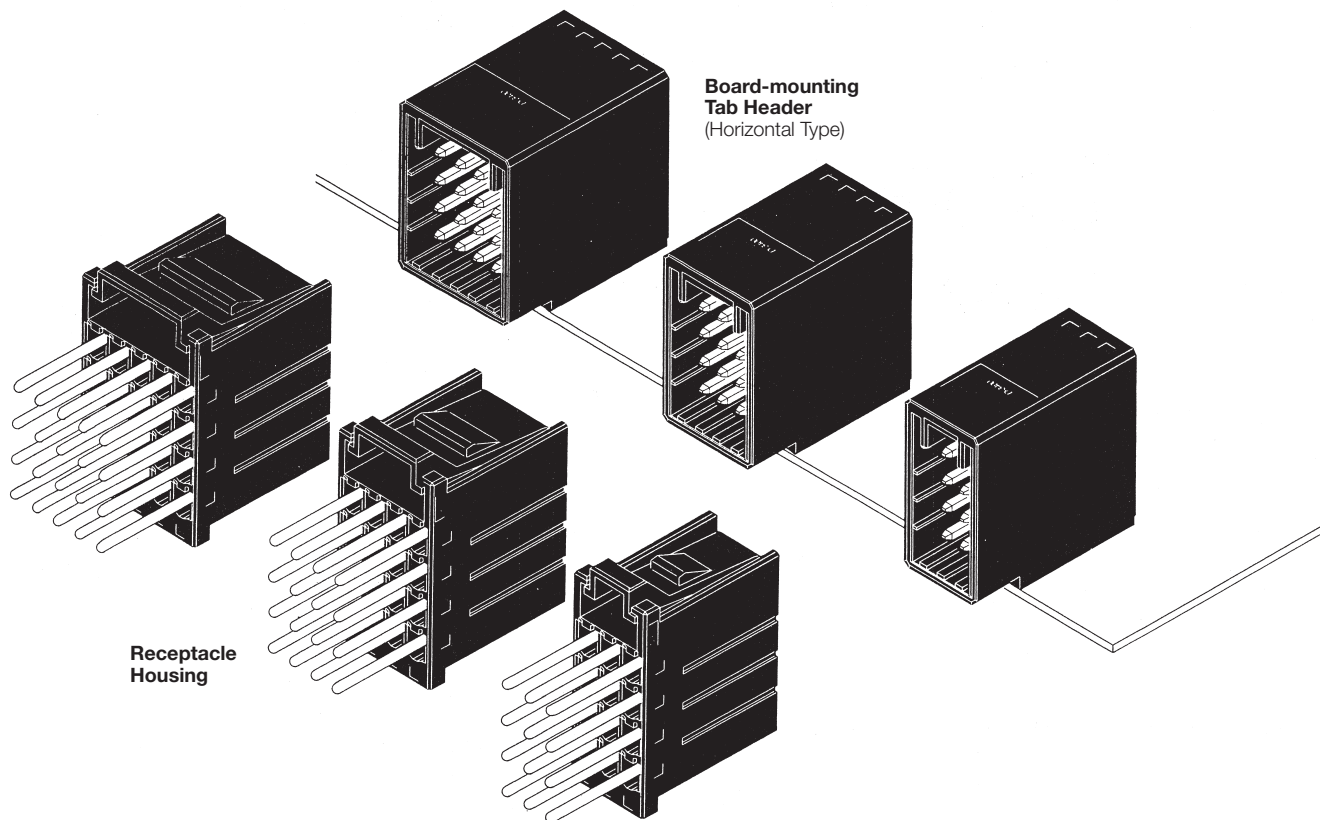
PC Board Layout
Applicable Board
Thickness: 1.6±0.1



D-3000 Series (Continued)

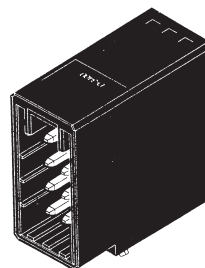
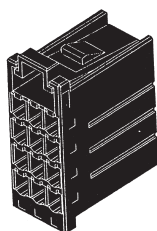
D-3400F — Skyscraper Connectors

Appearance Board-mounting width reduced through increased heights. Compatible with increased I/Os.
Board-mounting pitch: Horizontal Type 150 x 150 mils (3.81 x 3.81 mm)
Dielectric Withstanding Voltage: 1,500 V (for one minute) Voltage Rating: 250 V



Receptacle Housing

Board-mounting Tab Header
(Horizontal Type)



Part Number Chart

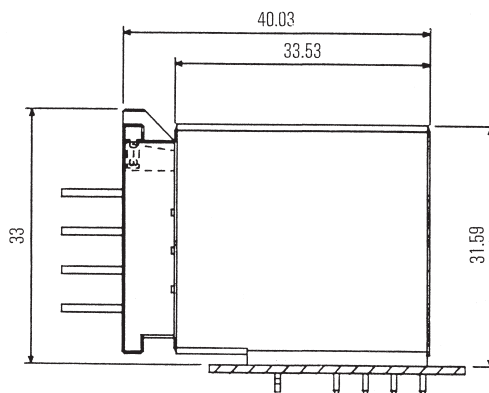
No. of Pos.	Receptacle Housing	Board-mounting Tab Header (Horizontal Type)
12	178214-1	178216-□
16	—	—
20	917249-1	917251-□

Note: Enter the following plating codes in -□ after Part Numbers:
-2 = 0.38µm thick gold plating, -3 = 0.76µm thick gold plating,
-5 = Tin plating

D-3000 Series (Continued)

D-3400F — Skyscraper Connectors (Continued)

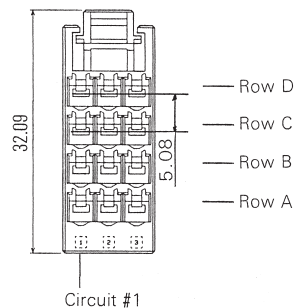
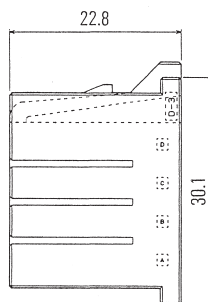
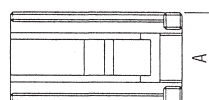
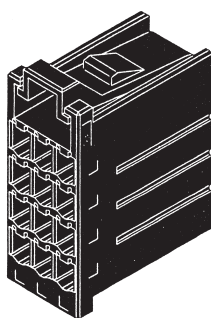
Mating Dimensions



Horizontal Type

D-3000 Series

Receptacle Housing

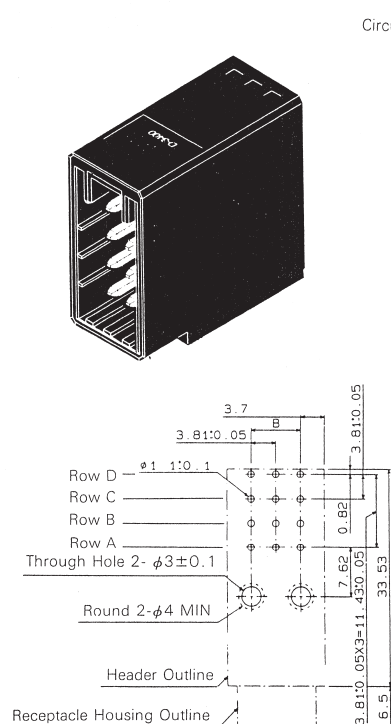


No. of Pos.	Part Number	Dimensions	Mating Tab Header Part Number
		A	
12	178214-1	12.22	178216-□
16	—	—	—
20	917249-1	19.84	917251-□

D-3000 Series (Continued)

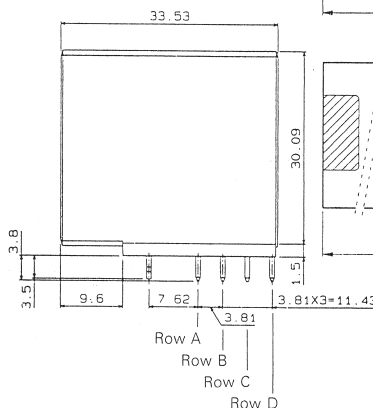
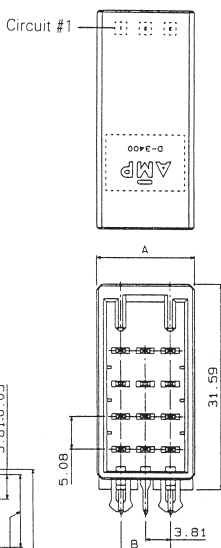
D-3400F — Skyscraper Connectors (Continued)

Board-mounting Tab Header (Horizontal Type)

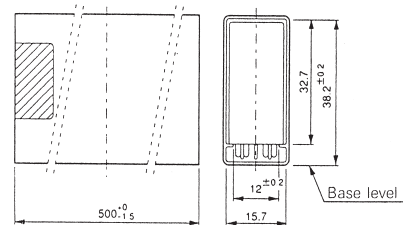


PC Board Layout

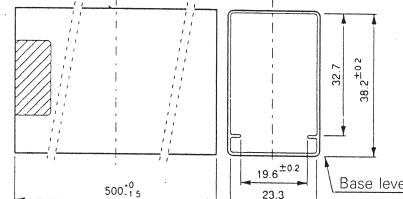
Acceptable Board Thickness:
1.6-2.4±0.1



Tube Package Dimensions For 12 Pos.



For 20 Pos.



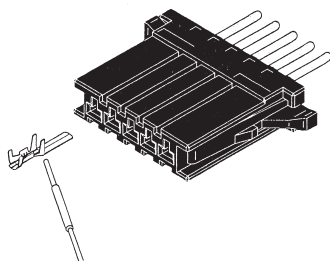
No. of Pos.	Part Number	Dimensions		Mating Receptacle Housing Part Number
		A	B	
12	178216-□	15.02	7.62	178214-1
16	—	—	—	—
20	917251-□	22.64	15.24	917249-1

Testing Advice

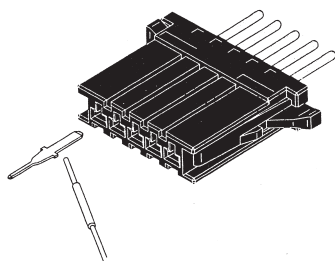
There are two major causes for faulty contact of the connector. They are:

- (1) Scooping of contacts at mating/unmating
 - With this Dynamic Series, each connector is designed to protect contacts against scooping very effectively.
- (2) Widening of contact gap by forcing tester bar, etc., into receptacle contacts when making continuity check.
 - Test bars that are commercially available (2 mm) cannot be pushed in from the entry port of housing. Never do continuity check by inserting clips, etc. Failure may also be caused by mis-insertion of the extraction tool. Be careful when you use the tool.

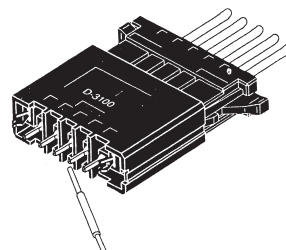
(Recommended methods of continuity check)



① Utilize tab contacts.



② Extract contacts from Board-mounting Vertical Type connector and insert them for testing.



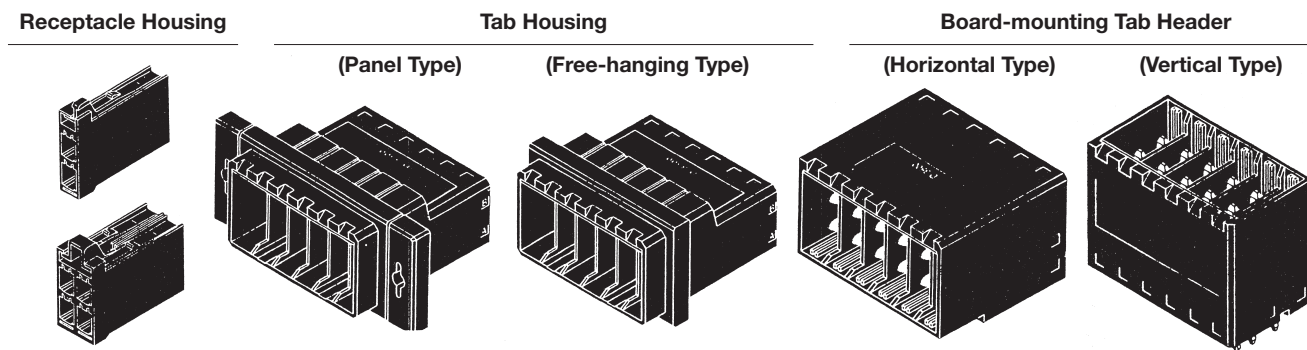
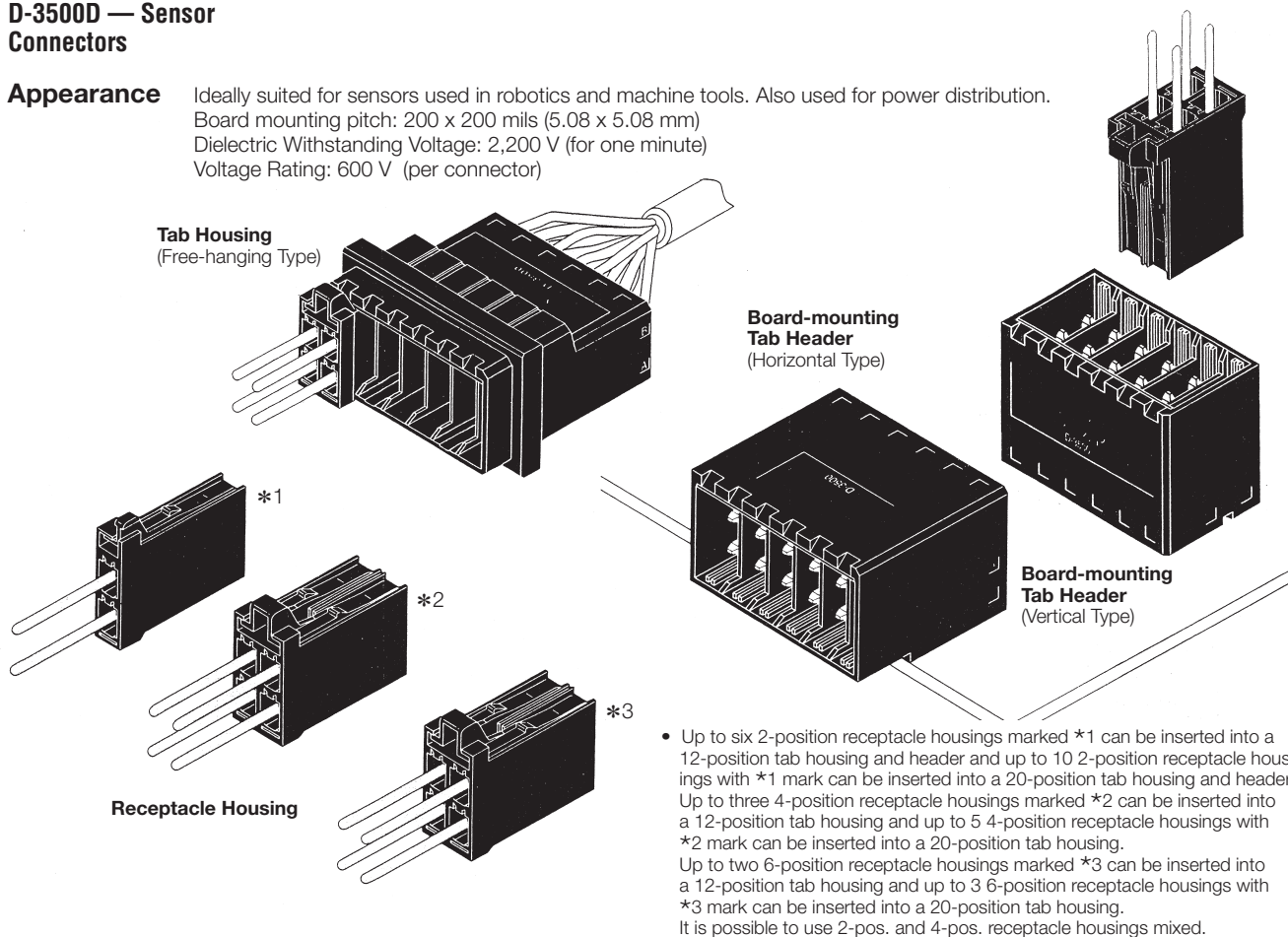
③ The best method is to use Board-mounting Vertical type connector.

D-3000 Series (Continued)

D-3500D — Sensor Connectors

Appearance

Ideally suited for sensors used in robotics and machine tools. Also used for power distribution.
Board mounting pitch: 200 x 200 mils (5.08 x 5.08 mm)
Dielectric Withstanding Voltage: 2,200 V (for one minute)
Voltage Rating: 600 V (per connector)



No. of Pos.	Receptacle Housing	Tab Housing		L Fitting	Board-mounting Tab Header	
		Panel Type	Free-hanging Type		Horizontal Type	Vertical Type
2	175362-□	—	—	—	—	—
4	175363-□	—	—	—	1376133-□	—
6	1318095-□	—	—	—	—	—
12	—	□-917241-6	□-917242-6	S	177555-□	316516-□
20	—	□-917241-8	□-917242-8	S	175365-□	316517-□

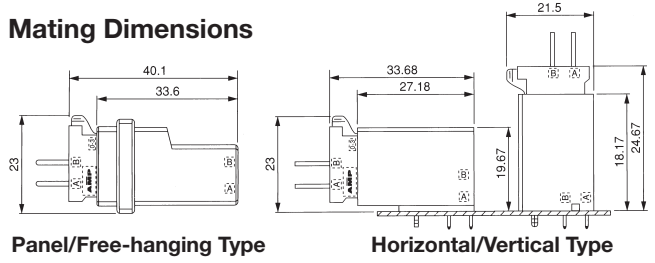
Note : In the □ after Part Numbers of PC board mount tab headers, please enter the following plating code numbers:
-2 = 0.38μm thick gold plating, -3 = 0.76μm thick gold plating,
-5 = Tin plating

The codes for the □ after receptacle housing part numbers and before tab housing part numbers, please refer to the next page.

D-3000 Series (Continued)

D-3500D — Sensor Connectors (Continued)

Mating Dimensions



Panel/Free-hanging Type

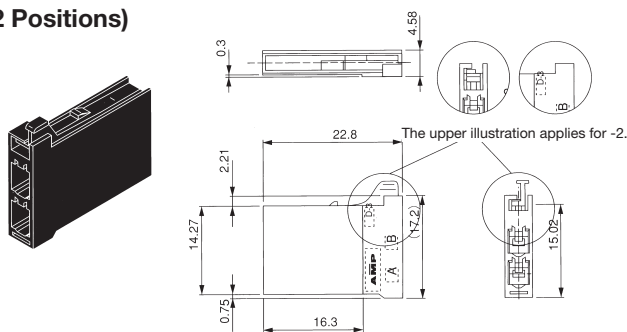
Horizontal/Vertical Type

Receptacle Housing

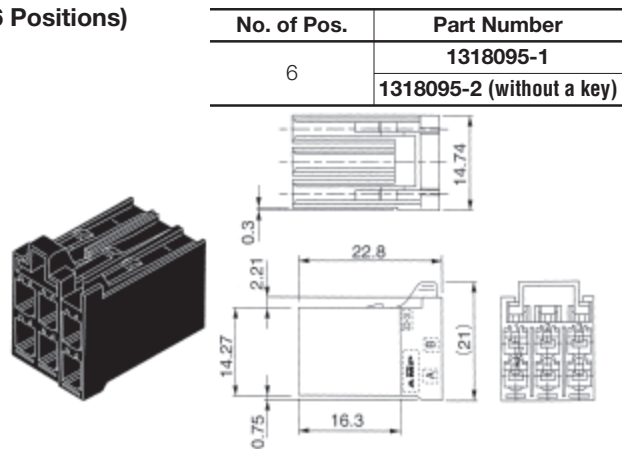
Mating Tab Housing Part Number:

□-917241-□ 1376133-□ 175365-□ 316517-□
□-917242-□ 177555-□ 316516-□

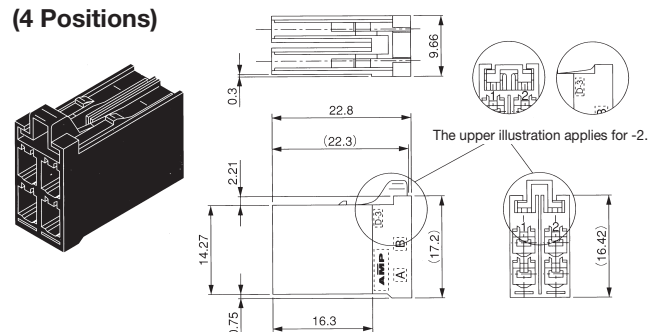
(2 Positions)



(6 Positions)



(4 Positions)



No. of Pos.	Part Number
2	175362-1
	175362-2

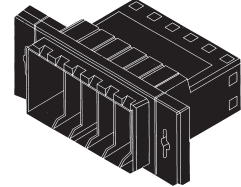
The illustrations show -1 type.
(-2 type does not have the locking lever.)

No. of Pos.	Part Number
4	175363-1
	175363-2

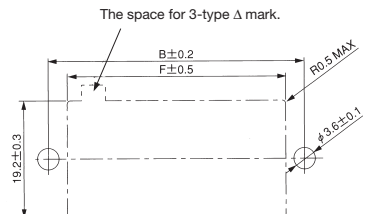
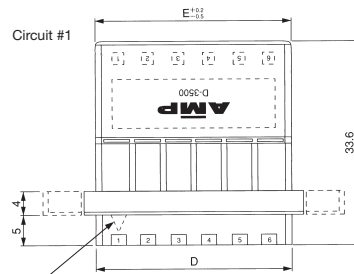
*-2 type has no locking lever in order not to hinder the adjacent receptacle when removing the receptacle.
When removing -2 type receptacle, please use a screwdriver.

Tab Housing

Panel Type



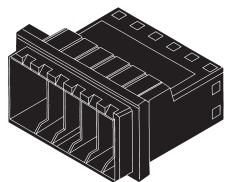
Mating Receptacle Housing Part Number:
175362-□
175363-□
1318095-□



Panel Cutout

When mounting panel from the front,
apply clamping torque of less than 49N [11 lbf].

Free-Hanging Type



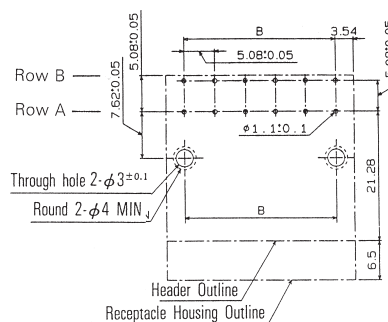
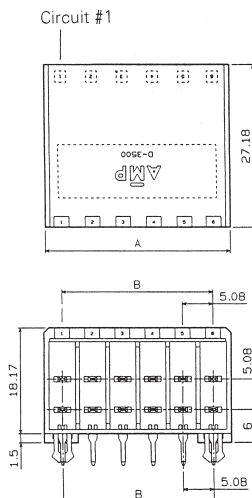
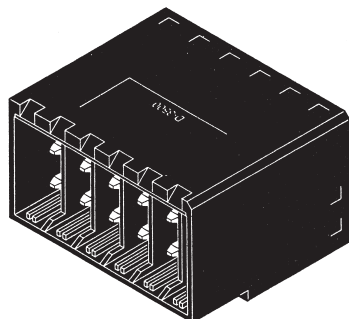
No. of Pos.	Part Number		Dimensions						
	Panel Type	Free-Hanging Type	A	B	C	D	E	F	G
12	917241-6	917242-6	52	43	36.43	32.48	32.48	33.4	15.24
	3-917241-6	3-917242-6							
20	917241-8	917242-8	72	63	56.75	52.8	52.8	53.8	35.56
	3-917241-8	3-917242-8							

*3- type has ∇ mark on top of the circuit No.1 in order to enhance visibility.

D-3000 Series

Board-mounting Tab Header (Horizontal Type)

175362-☐
175363-☐
1318095-☐

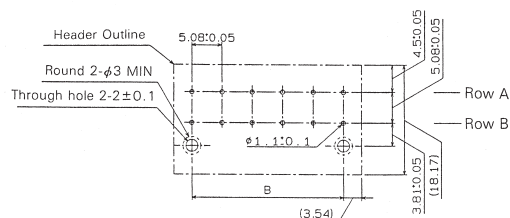
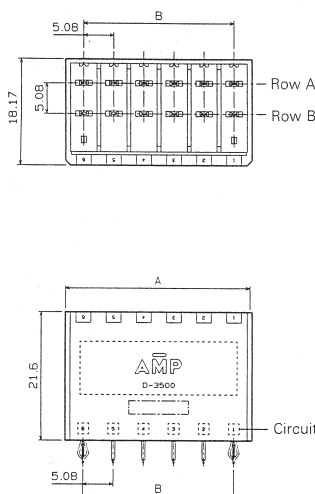
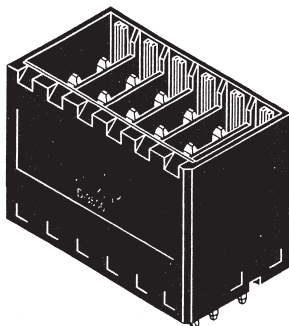


PC Board Layout
Acceptable Board Thickness:
1.6-2.4+0.1

No. of Pos.	Part Number	Dimensions	
		A	B
4	1376133-□	12.16	5.08
12	177555-□	32.48	25.4
20	175365-□	52.8	45.72

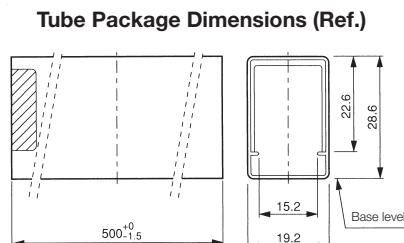
Board-mounting Tab Header (Vertical Type)

175362-☐
175363-☐
1318095-☐



PC Board Layout
Acceptable Board Thickness:
1.6-2.4±0.1

No. of Pos.	Part Number	Dimensions	
		A	B
12	316516-□	32.48	25.4
20	316517-□	52.8	45.72

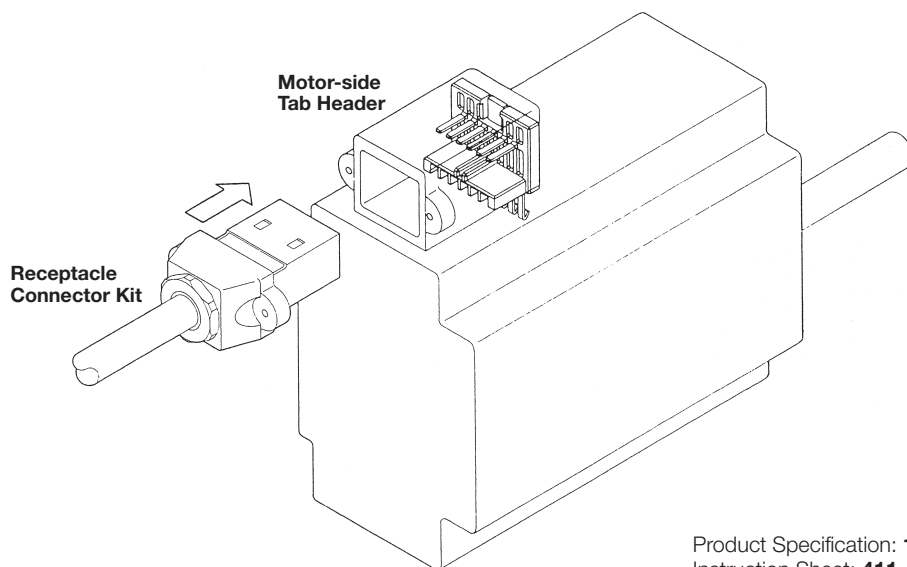


D-3000 Series (Continued)

D-3700 — Connectors for Exclusive Use with Servomotor

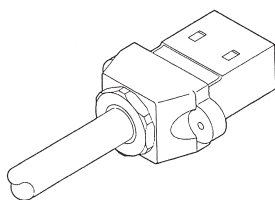
Appearance

Dielectric Withstanding Voltage: 1,500 V (for one minute)
Voltage Rating: 250 V



Product Specification: **108-5324**
Instruction Sheet: **411-5747**

Receptacle Connector Kit

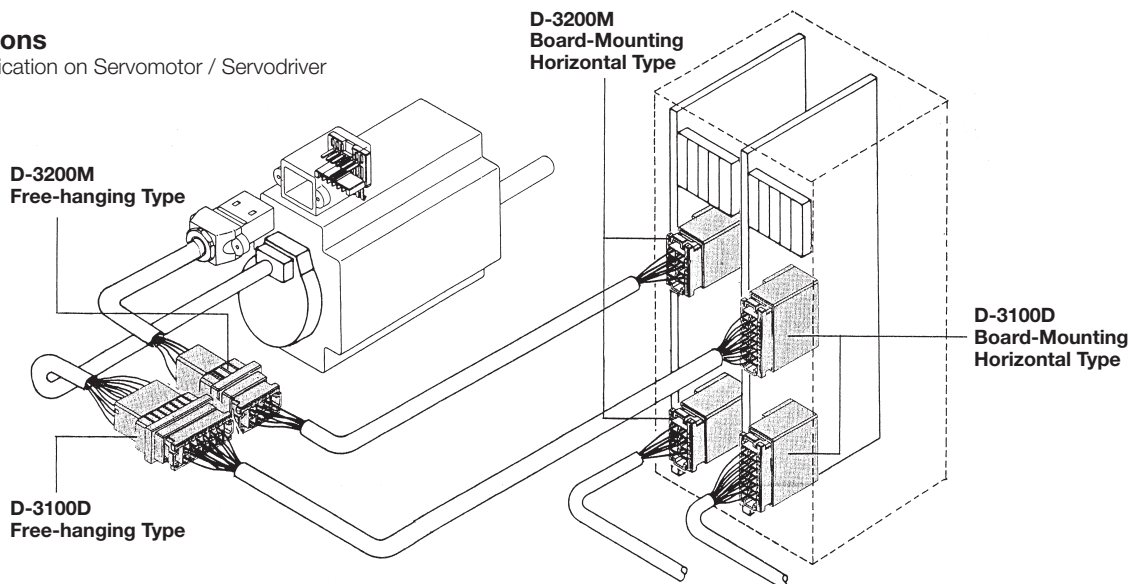


Part Number Chart

No. of Pos.	W/O Contact	Contact (P/N 1-175218-2) including 6 contacts	Remarks
6	176346-7	176346-8	Products with TÜV
	1-176346-7	1-176346-8	—

Applications

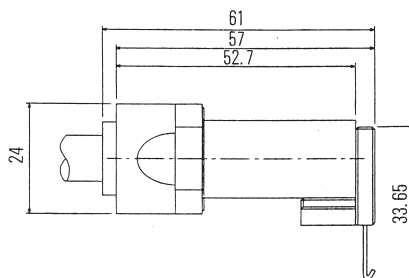
Typical Application on Servomotor / Servodriver



D-3000 Series (Continued)

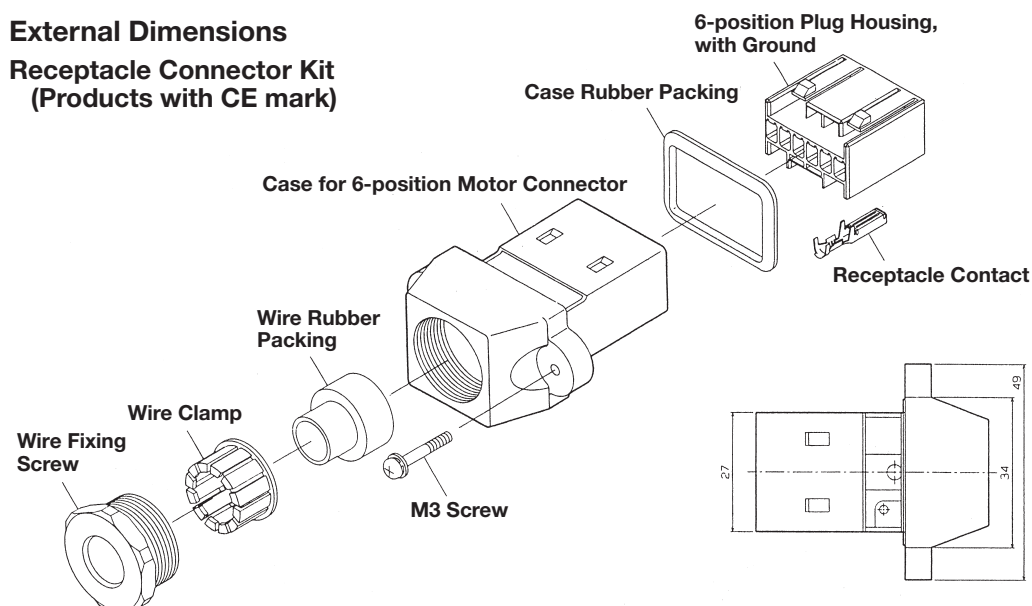
D-3700 — Connectors for Exclusive Use with Servomotor (Continued)

Mating Dimensions

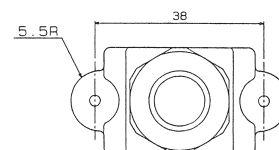
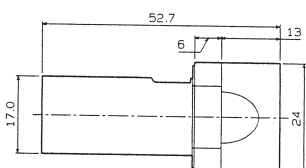
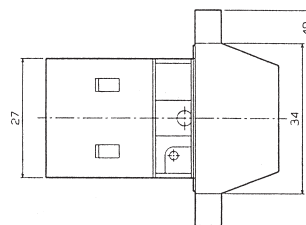


External Dimensions

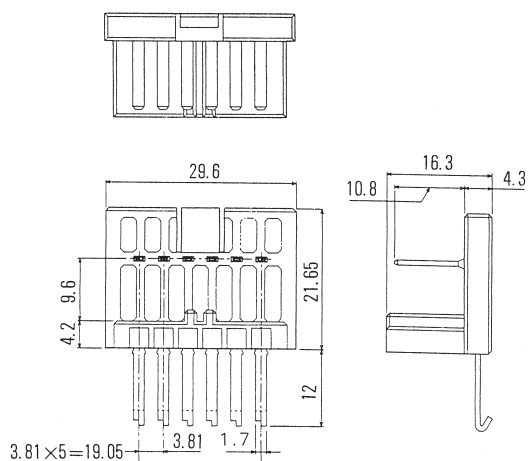
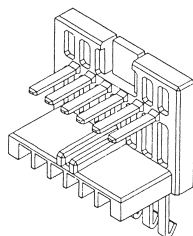
Receptacle Connector Kit (Products with CE mark)



No. of Pos.
176346-□



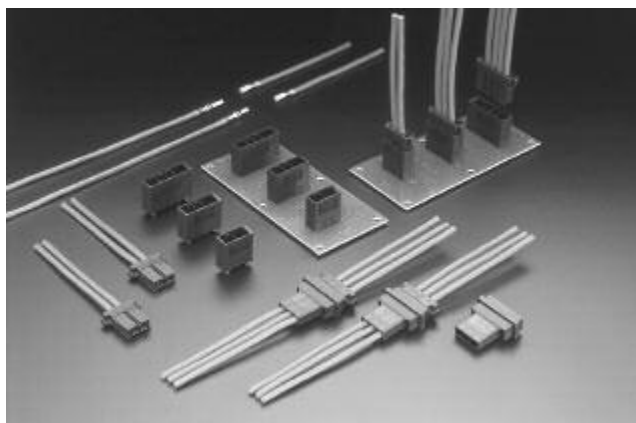
Motor-side Tab Header (Offered for limited usage)



D-4000 Series (Wire-to-Board, Wire-to-Panel and Wire-to-Wire)

Product Facts

- 20A of current is achievable with the use of 3-position connectors
- Newly designed contacts with four contact points
- Dynamic 4000 Series achieved a 50% or greater improvement in current values compared with the Dynamic 3000 Series. At the same time, mating height increased only approximately 14%
- Current capacity per unit volume is also higher by approximately 32%
- Wire-to-board type (2-, 3- and 4-position) and wire-to-wire type (3-position). This flexible line-up will help meet customer demands. Sequential pins are also available.



Material and Finish

Receptacle Contact — Phosphor bronze or copper alloy, gold plated with 0.38 μ m nickel underplate

Tab Contact — Phosphor bronze or copper alloy, gold plated with 0.38 μ m nickel underplate

Tab Post — Phosphor bronze or copper alloy, tin plated on contact area and gold plated with nickel underplate

Housing — Glass filled polyester (PBT), UL 94V-0

Performance Characteristics

Pitch — 6.35 mm (250 mils)

Voltage Rating — 600 V (rms)

Current Rating — 2-position: 24 A; 3-position: 23 A; 4-position: 22 A (when using #12 AWG wire)

Contact Resistance — 10 m Ω Max.

Dielectric Withstanding Voltage — 2,500 V (1 minute)

Operating Temperature — -55°C ~ +105°C

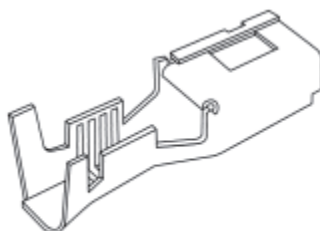
Technical Documents

Product Specification
108-78182

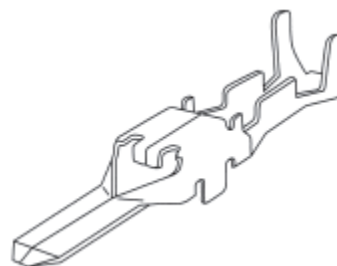
Application Specification
114-5362

D-4 Contact

0.38 μ m thick gold plating



Receptacle Contact
(Used in Receptacle Housing)



Tab Contact
(Used in Tab Housing)

Applicable Wire Range		Ins. Dia. Range mm	Wire Range Mark	Contact Part Numbers			Application Tooling	
AWG	mm ²			Receptacle	Tab	Sequential Long Tab	Mini-Applicator	Hand Tool
16	1.25	2.0~3.75	M	ST. 1747418-2	1747419-2	1-1747419-2	1762120-2	—
14	2.20			LP. 1747499-2	1747501-2	1-1747501-2	—	1762130-1
14	2.20	2.9~4.1	L	ST. 1747415-2	1747416-2	1-1747416-2	1762119-2	—
12	3.50			LP. 1747498-2	1747500-2	1-1747500-2	—	1762129-1

Notes: Minimum order quantity for tooling is one.

Extraction Tool Part Number 1762461-1 (411-78186)

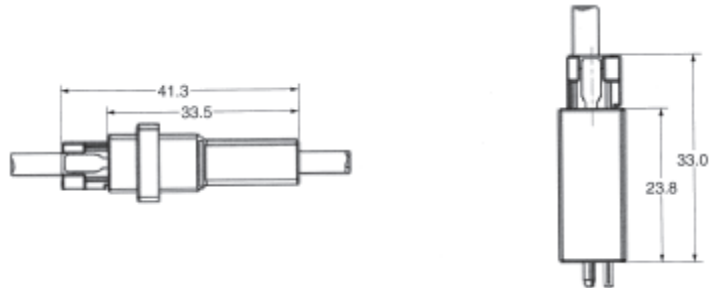
Mini-Applicator is for use on Automachine.

Strip Form contacts are used with Mini-Applicator and Loose-Piece contacts are with hand tools.

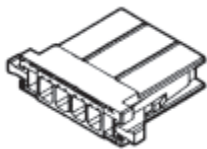
D-4000 Series (Continued)

D-4200

Mating Dimensions



Receptacle Housing



Mating Tab Housings

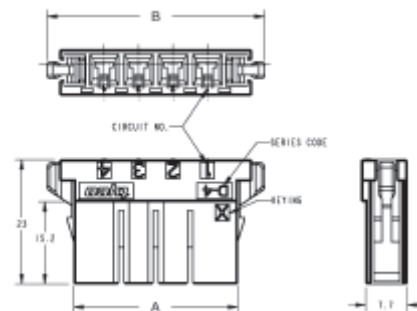
Part Number:

□-1747535-□

□-1747414-□

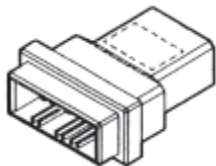
□-1747277-□

No. of Pos.	Part Number		Dimensions	
	Keying : X	Keying : Y	A	B
2	1-1747276-2	2-1747276-2	17.55	27.35
3	1-1747276-3	2-1747276-3	23.90	33.70
4	1-1747276-4	2-1747276-4	30.25	40.05



Tab Housing

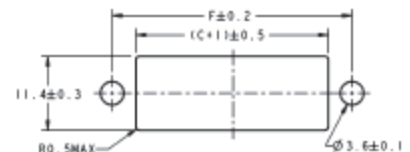
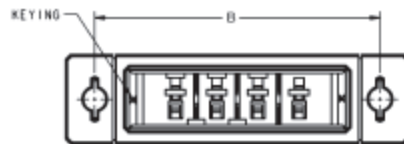
Free-hanging Type



Mating Receptacle Housing

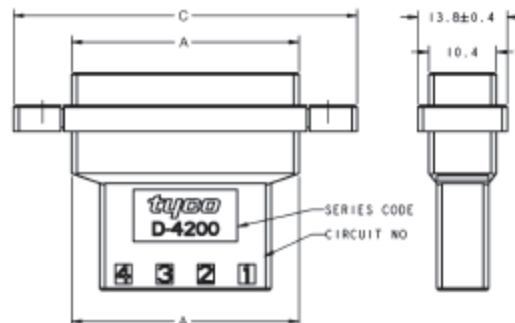
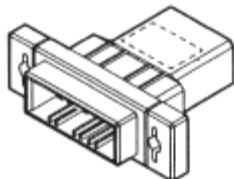
Part Number:

□-1747276-□



Panel Cutout

Panel Type



No. of Pos.	Part Number Keying : X		Part Number Keying : Y		Dimensions		
	Panel Type	Free-hanging Type	Panel Type	Free-hanging Type	A	B	C*
3	1-1747535-3	1-1747414-3	2-1747635-3	2-1747414-3	28.7	32.7	46.0

*Applicable to Panel Type only.

D-4000 Series (Continued)

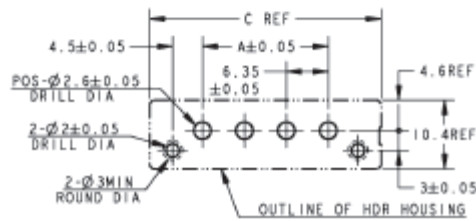
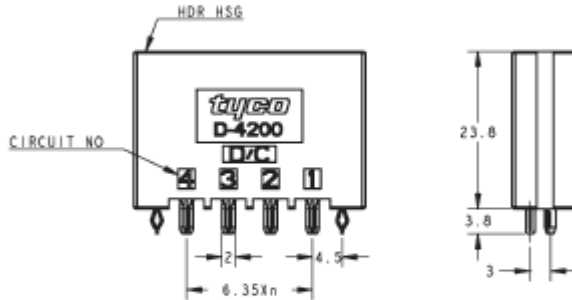
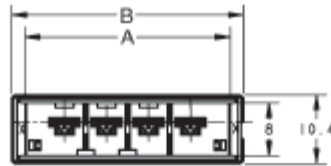
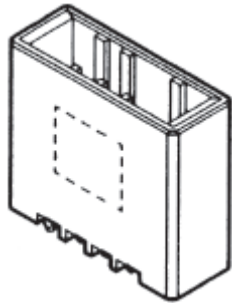
D-4200 (Continued)

Board-mounting Tab Header (Vertical Type)

Mating Receptacle Housing

Part Number:

□-1747276-□



PC Board Layout

Acceptable Board Thickness:
1.6-2.4

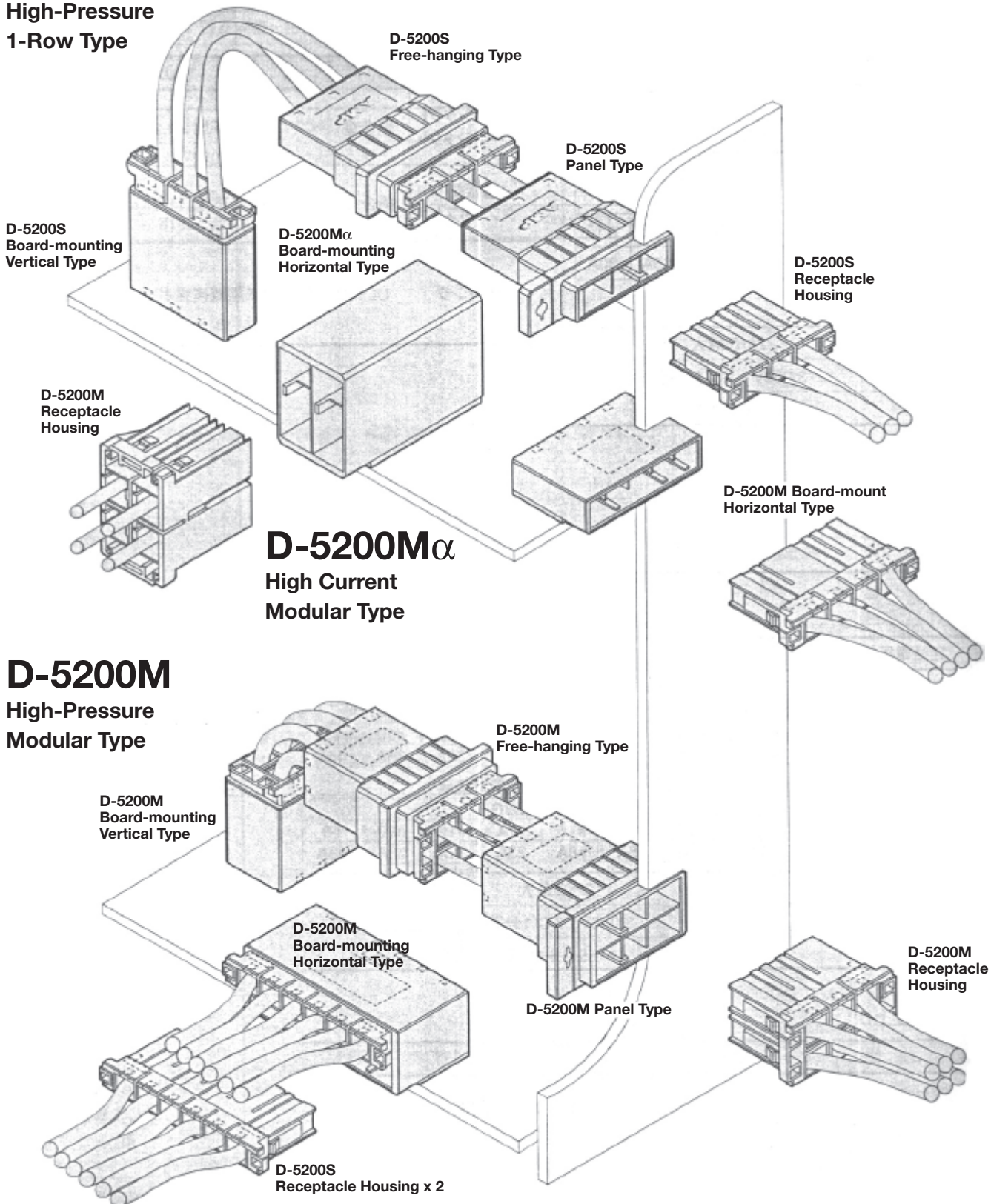
No. of Pos.	Part Number		Dimensions	
	Keying : X	Keying : Y	A	B
2	1-1747277-2	2-1747277-2	18.35	22.35
3	1-1747277-3	2-1747277-3	24.70	28.70
4	1-1747277-4	2-1747277-4	31.05	35.05

D-5200 Series (Wire-to-Board, Wire-to-Panel and Wire-to-Wire)

D-5200S

High-Pressure
1-Row Type

List of Dynamic Series Products by Application



D-5000 Series

D-5200M

High-Pressure
Modular Type

D-5200 Series (Continued)

Performance Characteristics and Specifications

D-5200S/M Performance Characteristics

Pitch	400mils (10.16mm)				
Description					
Voltage Rating	630V AC				
Current Rating	Wire	AWG			
		#16	#14	#12	#10
	Current	16A	19A	25A	30A
	6 position max.				
Contact Resistance	2mΩ Max.				
Dielectric Withstanding Voltage	3,000V AC (1 minute)				
Operating Temperature	-55°~+105°C				

Material and Finish

Description	Material	Finish
Receptacle Contact Tab Contact	Copper alloy	Gold plating with underplated nickel
Tab Post	Copper alloy	Gold plating with underplated nickel
Housing	UL 94V-0 rated, glass filled polyester (PBT)	

D-5200Mα Performance Characteristics

Pitch Description	400mils (10.16mm)																							
Voltage Rating	630V AC																							
Current Rating	Current for 3-pos. silver-plated contacts																							
	<table><tr><td rowspan="2">Wire</td><td colspan="7">AWG</td></tr><tr><td>#20</td><td>#18</td><td>#16</td><td>#14</td><td>#12</td><td>#10</td><td>#8</td></tr><tr><td>Current</td><td>12A</td><td>16A</td><td>20A</td><td>25A</td><td>33A</td><td>38A</td><td>45A</td></tr></table>	Wire	AWG							#20	#18	#16	#14	#12	#10	#8	Current	12A	16A	20A	25A	33A	38A	45A
	Wire		AWG																					
		#20	#18	#16	#14	#12	#10	#8																
	Current	12A	16A	20A	25A	33A	38A	45A																
	Current for 4-pos. silver-plated contacts																							
<table><tr><td rowspan="2">Wire</td><td colspan="7">AWG</td></tr><tr><td>#20</td><td>#18</td><td>#16</td><td>#14</td><td>#12</td><td>#10</td><td>#8</td></tr><tr><td>Current</td><td>12A</td><td>15A</td><td>18A</td><td>23A</td><td>31A</td><td>35A</td><td>43A</td></tr></table>	Wire	AWG							#20	#18	#16	#14	#12	#10	#8	Current	12A	15A	18A	23A	31A	35A	43A	
Wire		AWG																						
	#20	#18	#16	#14	#12	#10	#8																	
Current	12A	15A	18A	23A	31A	35A	43A																	
Contact Resistance	2mΩ Max.																							
Dielectric Withstanding Voltage	3,000V AC (1 minute)																							
Operating Temperature	-55°~+105°C																							

Material and Finish

Description	Material	Finish
Receptacle Contact Tab Contact	Copper alloy	Silver plating with underplated nickel
Tab Post	Copper alloy	Silver plating with underplated nickel
Housing	UL 94V-0 rated, glass filled polyester (PBT)	

D-5200 Series (Continued)

Performance Characteristics and Specifications (Continued)

Technical Documents Specifications and Instruction Sheets

Product Specification		108-5453
Test Report		501-5188
Application Specification		114-5206
Hand Tool Instruction Sheets	Crimping Tool P/N : 234170-1	411-5712
	Crimping Tool P/N : 234171-1	411-5713
	Crimping Tool P/N: 1366656-1	411-5969
	Crimping Tool P/N: 1366044-1	411-5976
Extraction Tool (Part Number 409158-1) Instruction Sheet		411-5774

*Don't fail to obtain Instruction Sheets and other appropriate papers when you adopt our products.

Safety Specifications

The following safety specifications are applicable to specific Part Numbers.

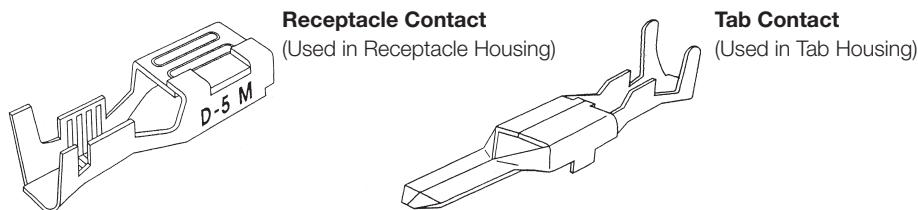
Contact Technical Support to check if approval is given for each Part Number you are using.

Note that there are instances where values differ from those given in Tyco Electronics Performance Data.

	D-5200 Series (400 mil, 10.16mm pitch)			D-5200Mα Series					
	Voltage Rating	Current Rating	Temperature Rating	Voltage Rating	Current Rating	Temperature Rating			
Specification 108-5453	630V AC	See preceding page	-55°~+105°C	—	See preceding page	-55°~+105°C			
UL File No. E28476 (Recognized Component)	Determined by requirements of equipment in use.	Determined by requirements of equipment in use.	—	—	Determined by requirements of equipment in use.	—			
CSA Report No. LR7189	600V AC	AWG	A	—	—	—			
		16	13						
		14	18						
		12	25						
		10	30						
TÜV License No. R9650368 IP Protection IP-10 Overvoltage Classification (II) Number of repeated insertions and withdrawals allowed: 50 times.	600V AC			-30°~+105°C	—	AWG	Pos.		-30°~+105°C
							1~3	4	
		AWG	A			20	12.5	12.5	
		16	15			18	17.5	16	
		14	20			16	21	19.5	
		12	25			14	26	24	
		10	30			12	33	31	
						10	40	37.5	
						8	48	46	

D-5200 Series (Continued)

Crimp Type Contacts



D-5 Contacts

Wire Range		Ins. Dia. Range mm	Wire Range Mark	Contact Part Numbers*			Application Tooling	
AWG	mm ²			Receptacle	Tab	Sequential Tab	Mini-Applicator	Hand Tool
16	1.25	3~3.8	S	ST. 179955-□	917802-□	84696-1	**	—
14	2.20			LP. 316040-□	917804-□	—	—	234170-1
12	3.50	4~5.2	M	ST. 179956-□	917803-□	84695-1	**	—
10	5.50			LP. 316041-□	917805-□	—	—	234171-1

Note: Enter the following plating code in Part Number suffix-□:
 -2 = 0.38 µm thick gold plating, -3 = 0.76µm thick gold plating,
 -6 = 2.54 µm thick silver plating

* Strip Form contacts are used with Mini-Applicator and Loose-Piece contacts are with hand tools.

**Mini-Applicator is for use on Automachines. (See next page. Contact Technical Support for details.)

D-5α Contacts (Silver Plating)

Wire Range		Ins. Dia. Range mm	Wire Range Mark	Contact Part Numbers*		Application Tooling	
AWG	mm ²			Receptacle		Mini-Applicator	Hand Tool
20	0.50	1.8~3.23	SS	ST. 1318985-6		**	—
16	1.25			LP. 1318986-6		—	91596-1
16	1.25	3~3.80	S	ST. 179955-6		**	—
14	2.20			LP. 316040-6		—	234170-1
12	3.50	4~5.2	M	ST. 179956-6		**	—
10	5.50			LP. 316041-6		—	234171-1
8	8.00	4.9~7.8	L	ST. 1318696-6		**	—
				LP. 1318697-6		—	1366044-1

Note: The contact part numbers with "-6" are silver plated with 2.54 µm thickness.

* Strip Form contacts are used with Mini-Applicator and Loose-Piece contacts are with hand tools.

**Mini-Applicator is for use on Automachines. (See next page. Contact Technical Support for details.)

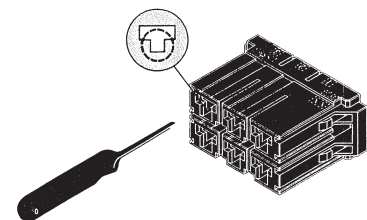
Application Tooling

Extraction Tool Part Number: 409158-1

Instruction Sheet 411-5774

- Used to extract contacts from wire type tab / receptacle housing.
(Take care when inserting tool as the lance section of D-5 is turned upside down to that of D-3.)
- With D-5 contacts only, it is possible to extract using a small-size slotted screwdriver.

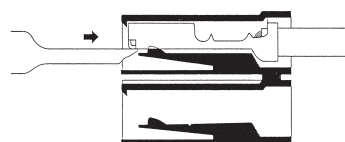
• How to Use Extraction Tool



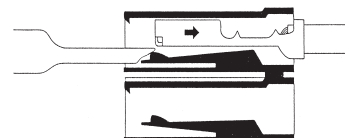
- ① Insert Extraction Tool in the direction as shown, insert into the narrow lower section of Housing's reverse convex hole. (make sure that you are holding tool in proper position, top and bottom.)

* Take care not to insert tool into contact section. If you've inserted by error, replace the contact with a new one before proceeding.

When Using D-5 Extraction Tool

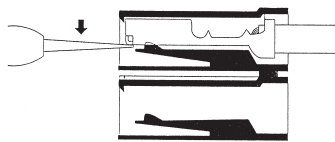


- ② The tip of Extraction Tool depresses housing lance, freeing contact.

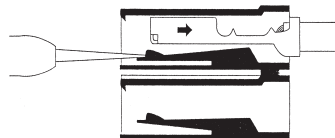


- ③ Contact can now be pulled out.

When Using Slotted Screwdriver



- ② When you butt the tip of tool at lance section and depress it, contact is released.



- ③ Contact can be pulled out.

D-5200 Series (Continued)

Application Tooling

(Continued)

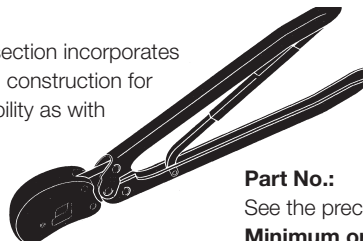
AMP-3K/40 and AMP-5K/40 Terminating Machines

The AMP-3K/40 and AMP-5K/40 Terminators are designed for customers that require the increased output and quality of a semi-automatic machine at a competitive price. By incorporating the most commonly requested features as standard and offering a long list of optional equipment, these terminators offer flexibility to meet the specific needs of various applications at the lowest possible cost.

- 3,000 lb. [1361 kg] max. crimp force (AMP-3K/40)
- 5,000 lb. [2268 kg] max. crimp force (AMP-5K/40)
- Toolless removal of applicators and guards
- Jog capability
- Quiet, fast operation — 80/76 dBA and cycle time less than 0.400 seconds
- Accepts Heavy Duty Mini style applicators
- Wide range of optional equipment such as toolless precision crimp height adjust, batch counter, CQM capability and work light
- Order Catalog 1654856 for specifications and part numbers

Hand Tool

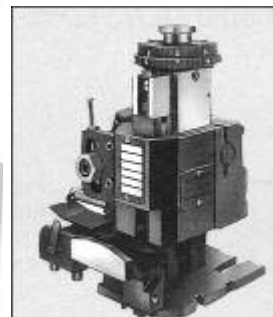
The crimping section incorporates Straight Action construction for improved reliability as with automachine.



Part No.:

See the preceding page.

Minimum order quantity: 1



Mini-Applicator

Part Number: Contact Technical Support

Minimum order quantity: 1

AMP-O-LECTRIC Model G Terminating Machine

The Model "G" Terminator is the most advanced design in the long-standing series of AMP-O-LECTRIC machines for terminating wire using reeled terminals and contacts. It features a reliable direct motor drive system. Its modular construction enables it to be used either as a bench-top unit, or in combination with fully-automatic lead-making equipment. For operator convenience, access to and lighting in the target area has been improved and the Crimp Quality Monitor (CQM) has been moved to eye level for bench-top use. The Model "G" is also quieter, plus improved guarding meets applicable European and domestic safety requirements.

- Quieter
- Improved guarding and lighting
- Toolless changeover of applicators
- Precision manual- or auto-adjust for crimp height
- Total and batch counter
- Accepts all existing Tyco Electronics miniature applicators, with minor modifications
- Reduced maintenance requirements
- Request Catalog 65828 for specifications and part numbers



Mini-Applicator

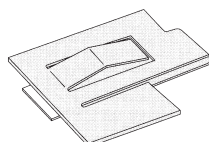
Part Number: Contact Technical Support.

Minimum order quantity: 1

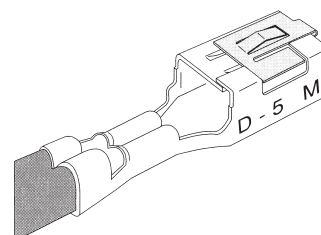
Mounting Hardware

Attachment

Sequential Clip



Part Number: 179993-1

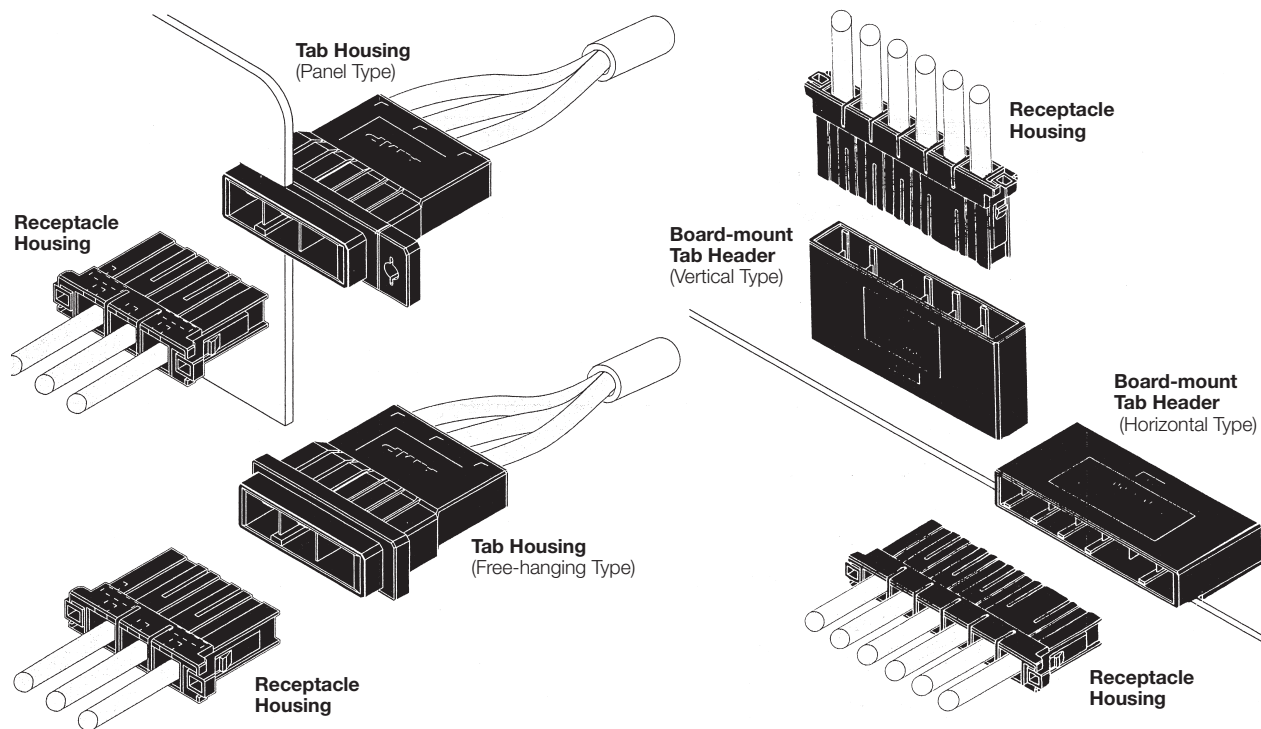


D-5200 Series (Continued)

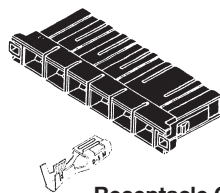
D-5200S — Standard 1-Row Type

Appearance

Board mounting pitch: 400mils (10.16mm)
Dielectric Withstanding Voltage: 3,000V (for one minute)
Voltage Rating: 630V AC



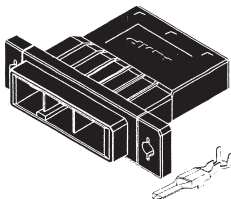
Receptacle Housing



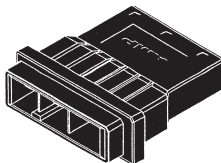
Receptacle Contact

Tab Housing

(Panel Type)



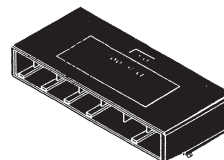
(Free-hanging Type)



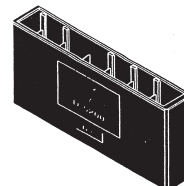
Tab Contact.....For each line of contacts, refer to the appropriate pages.

Board-mounting Tab Header

(Horizontal Type)



(Vertical Type)



No. of Pos.	Keying	Part Number of Receptacle Housings	Part Number of Tab Housings		Part Number Board-mounting Tab Headers			
			Panel Type	Free-hanging Type	Horizontal Type	Sequential Type	Vertical Type	Sequential Type
2	X	1-179958-2	1-353047-2	1-353046-2	1-353079-□	—	1-353080-□	—
	Y	2-179958-2	2-353047-2	2-353046-2	2-353079-□	—	2-353080-□	—
3	X	1-179958-3	1-353047-3	1-353046-3	1-353081-□	8-350381-2	1-353082-□	8-353082-2
	Y	2-179958-3	2-353047-3	2-353046-3	2-353081-□	9-350381-2	2-353082-□	9-353082-2
4	X	1-179958-4	Use low 4- and 6-position D-5200MS, 4- and 6-position Panel and Free-hanging Types.		1-917541-□	8-917541-2	1-917542-□	8-917542-2
	Y	2-179958-4			2-917541-□	9-917541-2	2-917542-□	9-917542-2
5	X	—			—	—	—	—
	Y	—			—	—	—	—
6	X	1-179958-6			1-179959-□	—	1-179960-□	—
	Y	2-179958-6			2-179959-□	—	2-179960-□	—

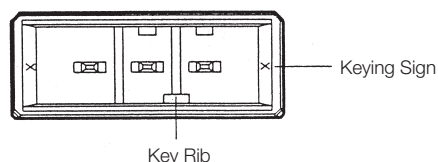
Note: Enter the following plating code in Part Number suffix-□
-2 = 0.38 μm thick gold plating
-3 = 0.76 μm thick gold plating

D-5200 Series (Continued)

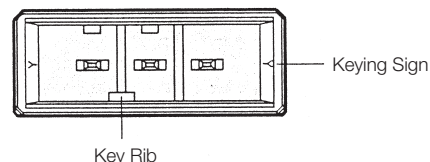
D-5200S — Standard 1-Row Type (Continued)

Keying

Keying is provided with this product (D-5200S) to help prevent misinsertion. Two types, X and Y, are available. (Shown below is the mated interface of Tab Header.)



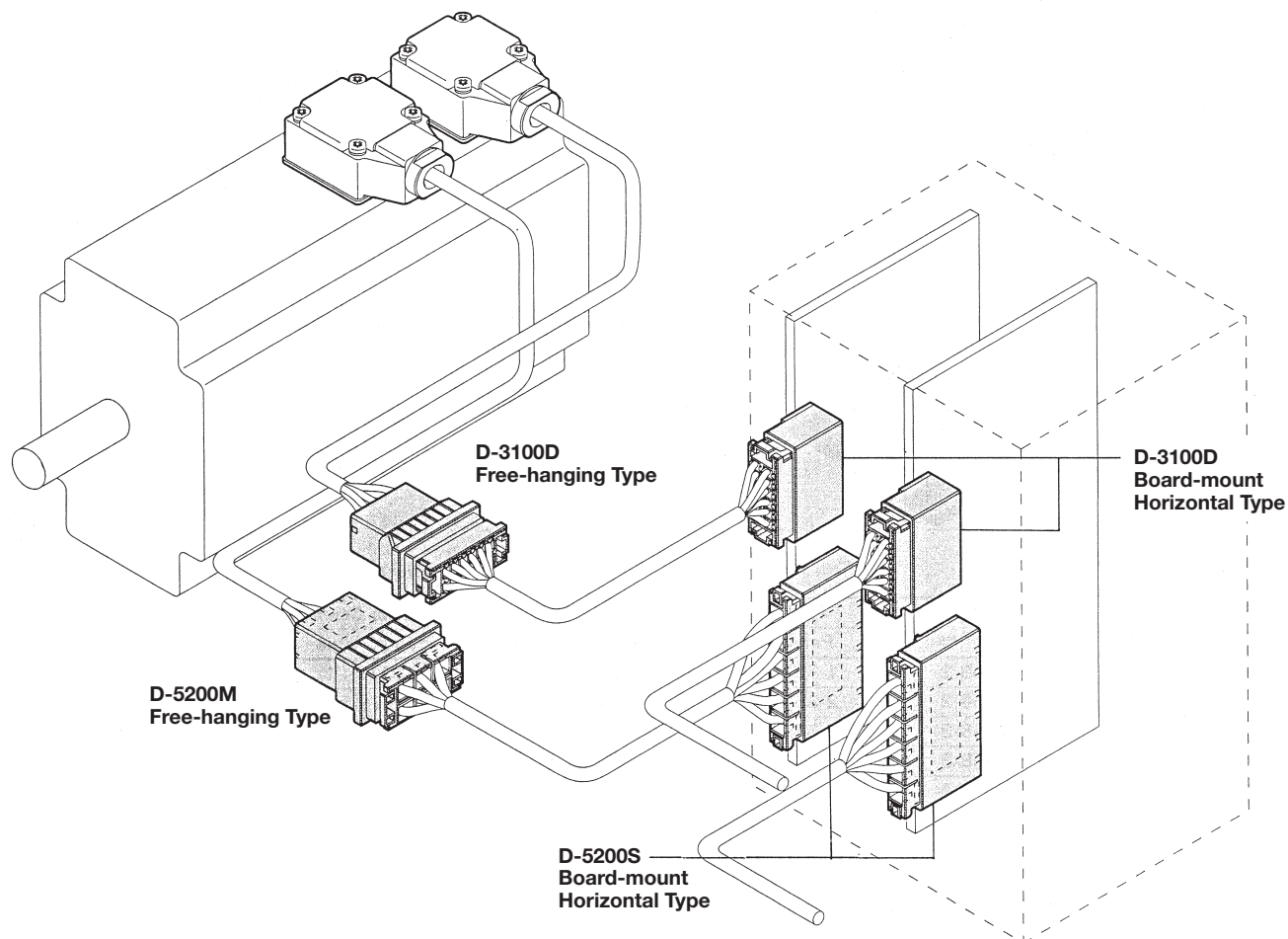
X-Type



Y-Type

Application

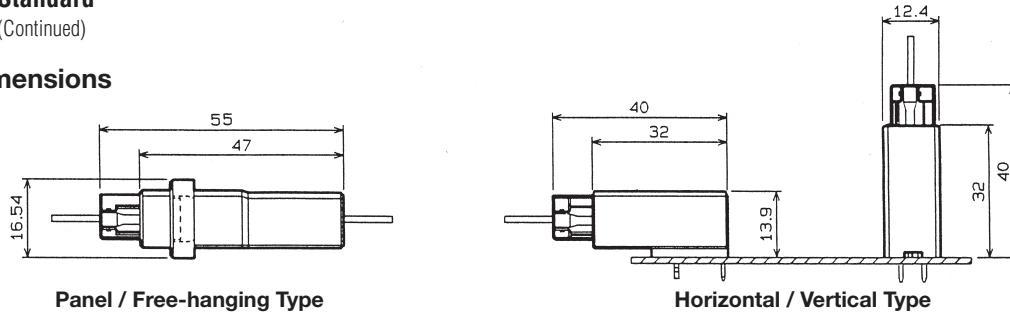
Servomotor / servodriver—Typical Application



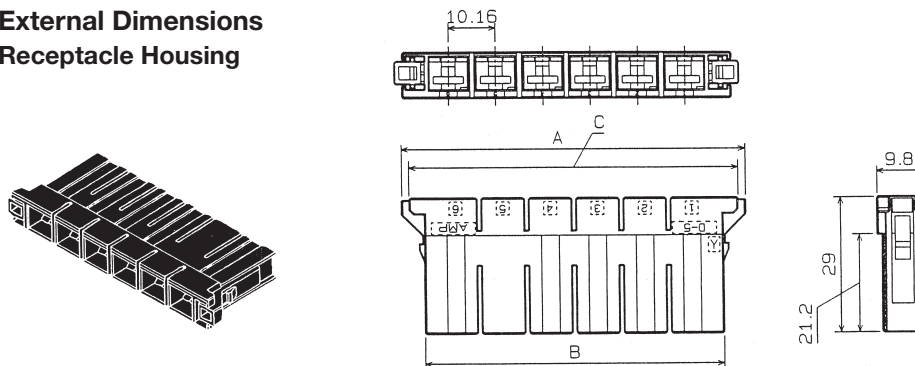
D-5200 Series (Continued)

D-5200S — Standard 1-Row Type (Continued)

Mating Dimensions



External Dimensions Receptacle Housing



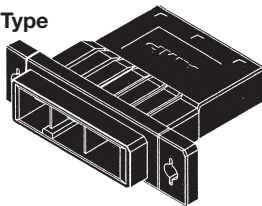
Mating Tab Connector Part Number:

□-353047-□
 □-353046-□
 □-353079-□
 □-353081-□
 □-917541-□
 □-179959-□
 □-353080-□
 □-353082-□
 □-917542-□
 □-179960-□

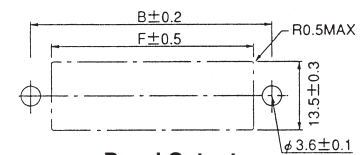
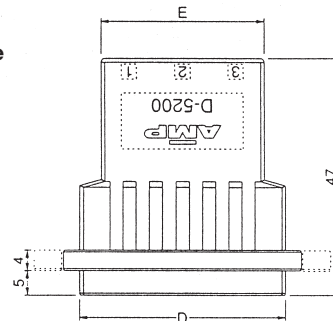
No. of Positions	Part Number of Receptacle Housing	Dimensions	
		A	B
2	□-179958-2	35.76	23.76
3	□-179958-3	45.92	33.92
4	□-179958-4	53.68	44.08
5	—	—	—
6	□-179958-6	74.00	64.40

Tab Housing

Panel Type

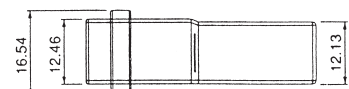
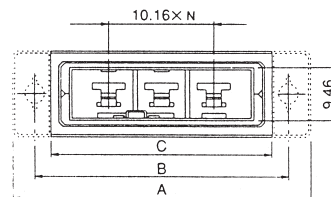
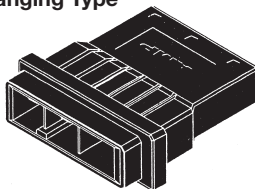


**Mating Receptacle
Housing
Part Number:**
 □-179958-□



When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].

Free-hanging Type



No. of Pos.	Part Number of Tab Housing		Dimensions					
	Panel Type	Free-hanging Type	A	B	C	D	E	F
2	□-353047-2	□-353046-2	47	38	33.44	29.36	21.11	30.4
3	□-353047-3	□-353046-3	57	48	43.6	39.52	31.27	40.5

D-5200 Series (Continued)

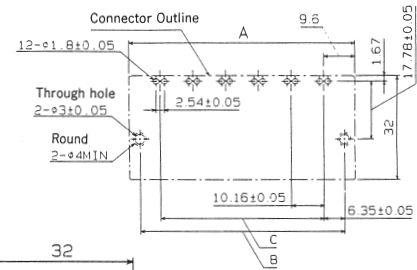
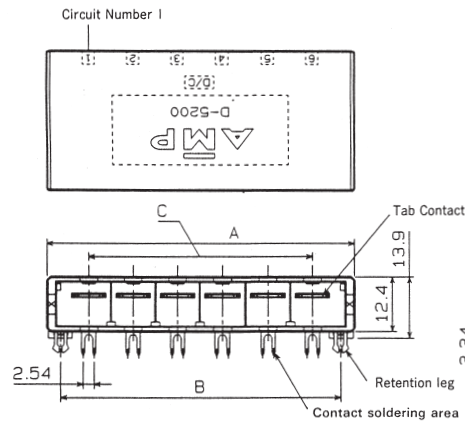
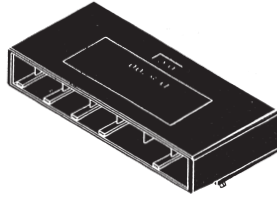
D-5200S — Standard 1-Row Type (Continued)

Board-mount Tab Header (Horizontal Type)

Mating Receptacle Housing

Part Number:

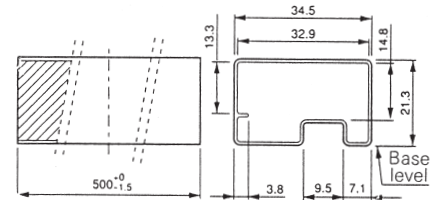
□-179958-□



PC Board Layout
Applicable Board
Thickness:
1.6-2.4±0.1

No. of Pos.	Part Number of Tab Header	Dimensions		
		A	B	C
2	□-353079-□	29.36	22.86	10.16
3	□-353081-□	39.52	33.02	20.32
4	□-917541-□	49.68	43.18	30.48
5	—	—	—	—
6	□-179959-□	70.00	63.50	50.80

Tube Package Dimensions (Ref.)

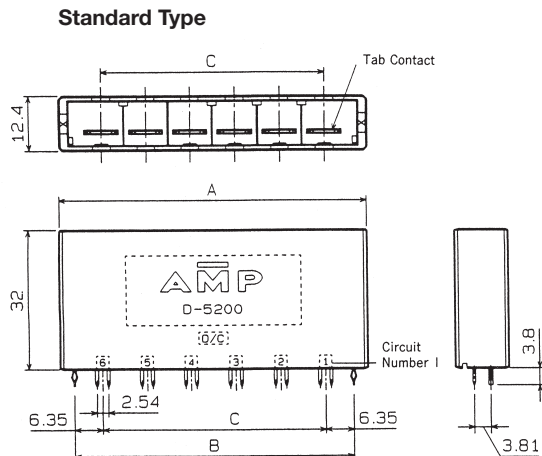
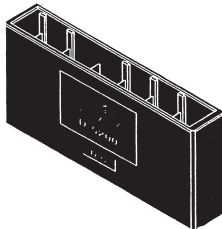


Board-mount Tab Header (Vertical Type)

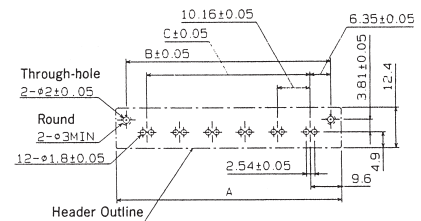
Mating Receptacle Housing

Part Number:

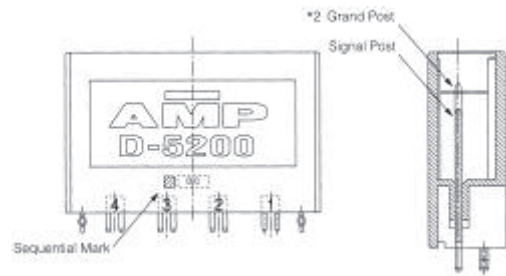
□-179958-□



PC Board Layout
Applicable Board
Thickness: 1.6-2.4±0.1



Sequential Type



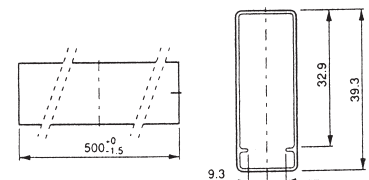
No. of Pos.	Part Number		Dimensions		
	Standard Type	Sequential Type	A	B	C
2	□-353080-□	—	29.36	22.86	10.16
3	□-353082-□	□-353082-2*1	39.52	33.02	20.32
4	□-917542-□	□-917542-2*1	49.68	43.18	30.48
5	—	—	—	—	—
6	□-179960-□	—	70.00	63.50	50.80

*1 In the of the sequential type, enter 8- for X type, and enter 9- for Y type.

*2 For the 3 pos. connector assembly, the sequential post is inserted in the circuit No. 3.

For the 4 pos. connector assembly, the sequential post is inserted in the circuit No. 4.

Tube Package Dimensions (Ref.)



D-5200 Series (Continued)

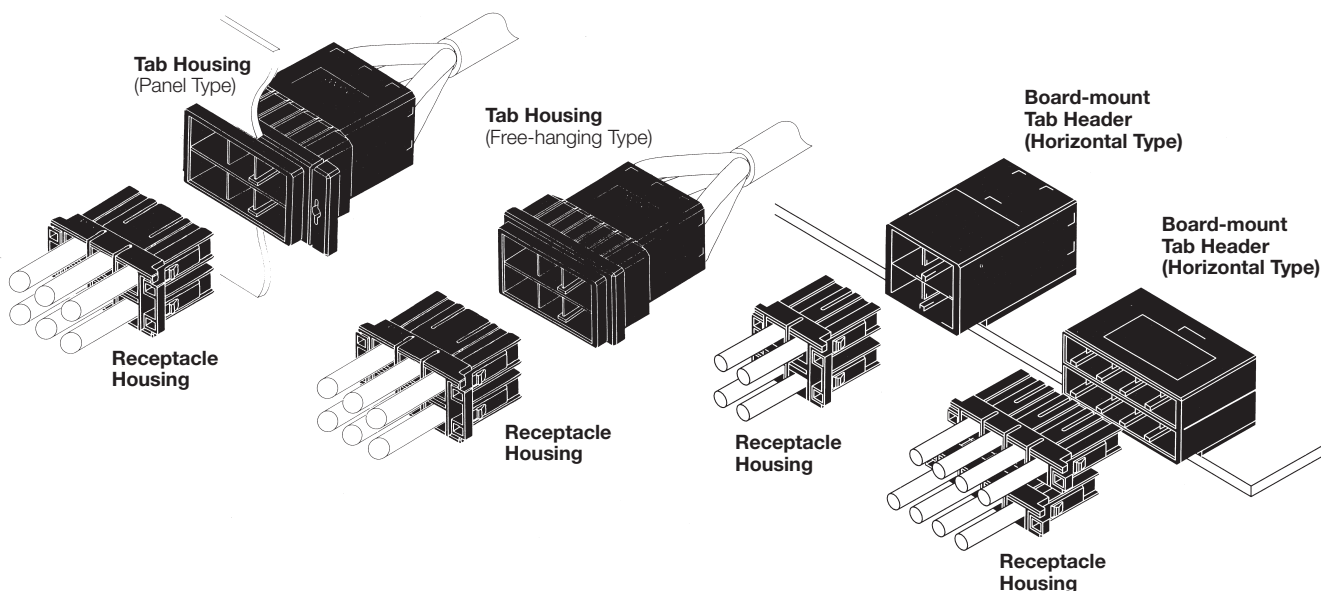
D-5200M — Modular Type

**D-5200M—Can be used for modular application in conjunction with D-5200S.
Also used for power distribution.**

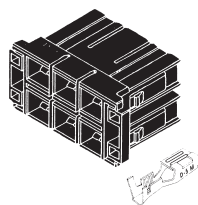
Board mounting pitch: 400x400mils (10.16x10.16mm)

Dielectric Withstanding Voltage: 3,000V (for one minute)

Voltage Rating: 630V AC (when one connector is used)

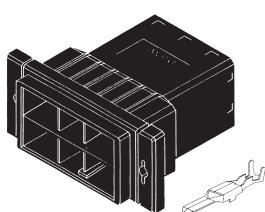


Receptacle Housing

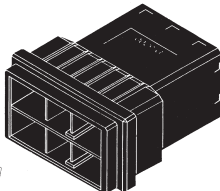


Tab Housing

(Panel Type)



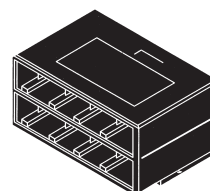
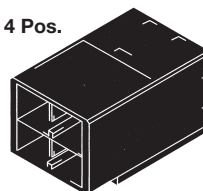
(Free-hanging Type)



Board-mounting Tab Header

(Horizontal Type)

4 Pos.



8 Pos.

Receptacle Contact

Tab Contact.....For each line of contacts, refer to the appropriate page.

No. of Pos.	Keying	Part Number of Receptacle Housings	Part Number of Tab Housing		Board-mounting Tab Header	
			Panel Type	Free-hanging Type	Horizontal Type	Sequential Type
4	XX	1-917807-2	1-917809-2	1-917808-2	1-1123309-□	8-1123309-2
	YY	2-917807-2	2-917809-2	2-917808-2	2-1123309-□	9-1123309-2
	XY	3-917807-2	3-917809-2	3-917808-2	3-1123309-□	5-1123309-2
6	XX	1-917807-3	1-917809-3	1-917808-3	—	—
	YY	2-917807-3	2-917809-3	2-917808-3	—	—
	XY	3-917807-3	3-917809-3	3-917808-3	—	—
8	XX	—	—	—	1123829-1*	—

Note: Enter the following plating code in Part Number suffix-□ :
-2 = 0.38 μm thick gold plating
-3 = 0.76 μm thick gold plating

*This connector is made by 2 pieces of 4 pos. connectors.

D-5200 Series (Continued)

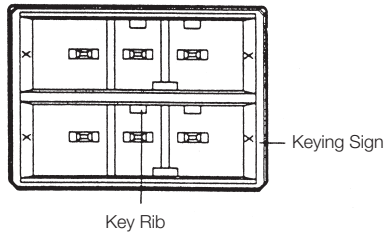
D-5200M — Modular Type

(Continued)

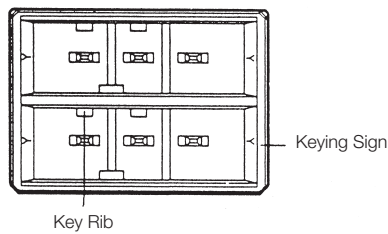
Keying

Keying is provided with this product (D-5200M) to help prevent misinsertion. Three types, XX, YY, and XY, are available.

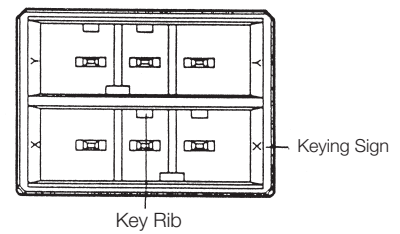
(Shown below is the mated interface of Tab Header.)



XX-Type

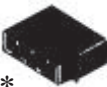
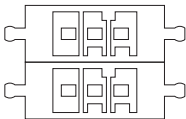
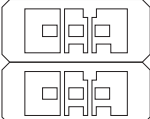
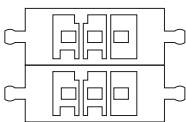
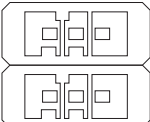
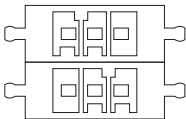
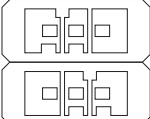


YY-Type



XY-Type

Table of Mating Combinations

Receptacle Housing		Tab Housing				Board-mount Tab Header		
1 Row (D-5200S)  *	X-Type			1 Row (D-5200S) Panel Type	X-Type Panel Type	1 Row (D-5200S) Horizontal Type	X-Type Horizontal Type	
	Y-Type			Free-hanging Type	Free-hanging Type		Vertical Type	
2 Row 	XX-Type			2 Rows Panel Type	XX-Type Panel Type	2 Rows Horizontal Type	XX-Type Horizontal Type	
	YY-Type				Free-hanging Type	YY-Type Panel Type	Vertical Type	YY-Type Horizontal Type
	XY-Type				XY-Type Panel Type	Vertical Type	XY-Type Horizontal Type	
				Free-hanging Type	Free-hanging Type	Vertical Type		

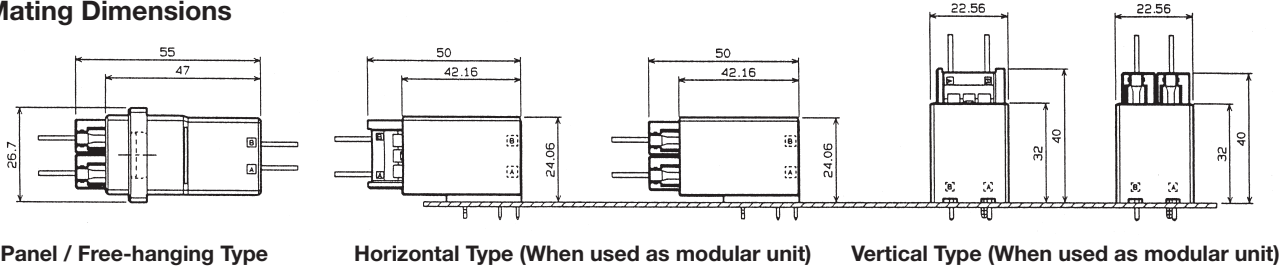
*D-5200S Series

D-5200 Series (Continued)

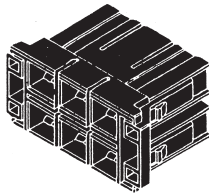
D-5200M — Modular Type

(Continued)

Mating Dimensions

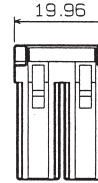
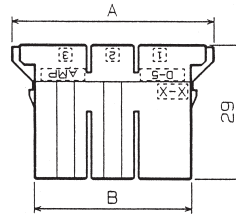
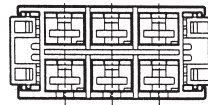


Receptacle Housing



Mating Tab Connector Part Number:

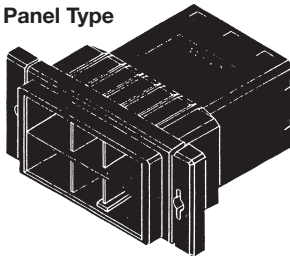
- 917809-□
- 917808-□
- 1123829-1
- 1123309-□



No. of Positions	Part Number of Receptacle Housing	Dimensions	
		A	B
4	□-917807-2	33.36	23.76
6	□-917807-3	43.52	33.92

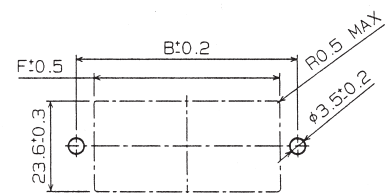
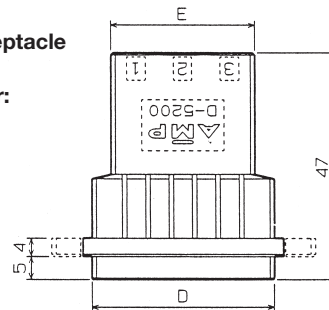
Tab Housing

Panel Type



Mating Receptacle Housing Part Number:

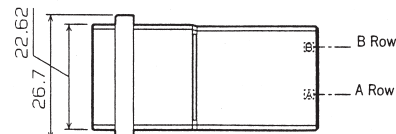
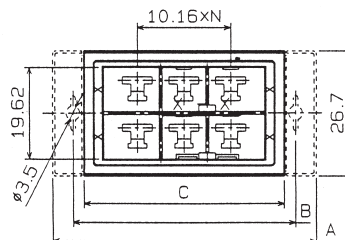
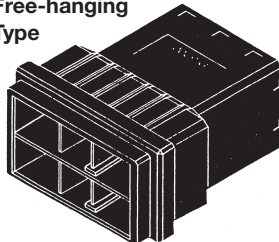
- 917807-□



Panel Cutout

When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].

Free-hanging Type



No. of Pos.	Part Number of Tab Housing		Dimensions					
	Panel Type	Free-hanging Type	A	B	C	D	E	F
4	□-917809-2	□-917808-2	47	38	33.44	29.36	21.11	30.40
6	□-917809-3	□-917808-3	57	48	43.60	39.52	31.27	40.50

D-5200 Series (Continued)

D-5200M — Modular Type

(Continued)

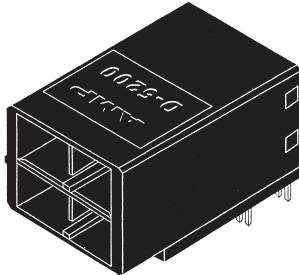
Board-mount Tab Header (Horizontal Type)

Mating Receptacle

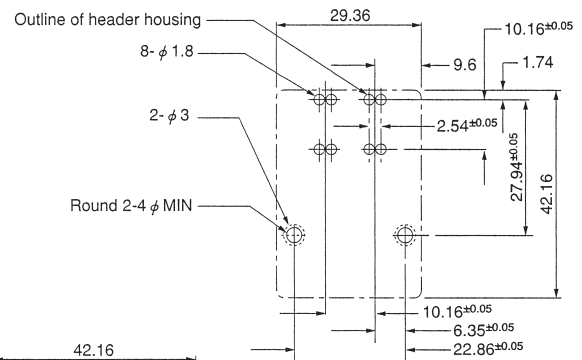
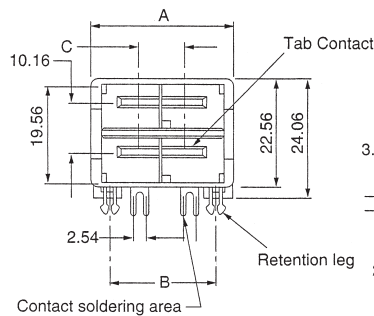
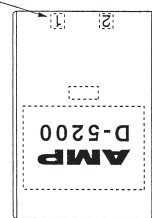
Housing

Part Number:

□-917807-□



Circuit Number 1



PC Board Layout

Applicable Board

Thickness:

1.6-2.4±0.1

No. of Pos.	Part Number of Tab Header	Dimensions		
		A	B	C
4	□-1123309-□	29.36	22.86	10.16

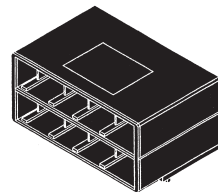
Board-mount Tab Header (Horizontal Type)

Mating Receptacle

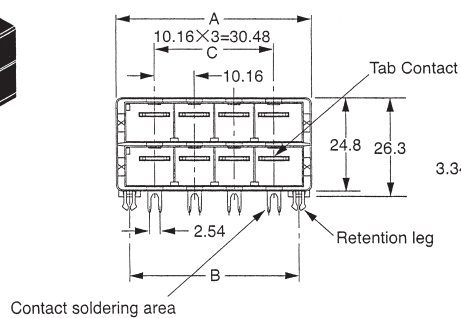
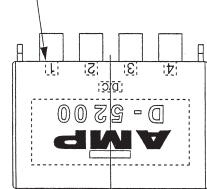
Housing

Part Number:

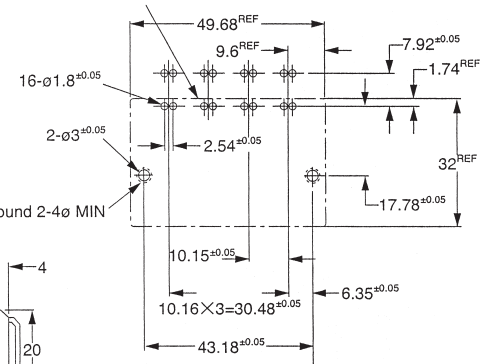
□-917807-□



Circuit Number 1



Outline of header housing



PC Board Layout

Applicable Board

Thickness:

1.6-2.4±0.1

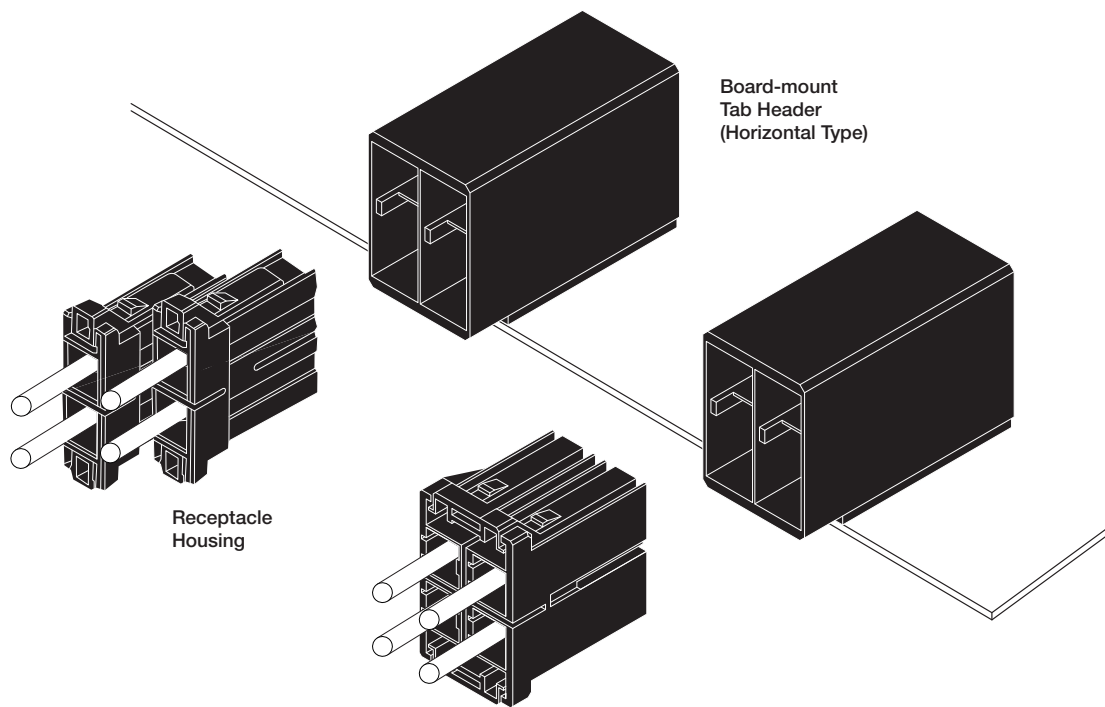
No. of Pos.	Part Number of Tab Header	Dimensions		
		A	B	C
8	1123829-1	49.68	43.18	30.48

D-5200 Series (Continued)

D-5200M α — High Current Type

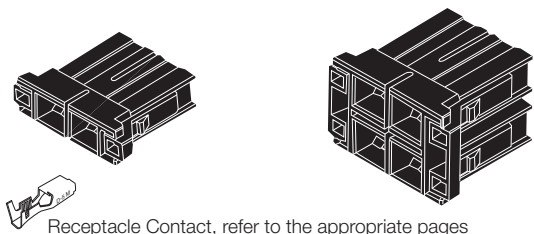
Appearance

Board mounting pitch: 400mils (10.16mm)
Dielectric Withstanding Voltage: 3,000V (for one minute)
Voltage Rating: 630V AC



Receptacle Housing

Board-mount Tab Header
(Horizontal Type)



Receptacle Contact, refer to the appropriate pages

Part Number Chart

No. of Pos.	Keying	Part Number of Receptacle Housings	Part Number of Board-mounting Tab Headers (Horizontal Type)
2	X	1-179958-2	—
	Y	2-179958-2	—
4	XX	1-917807-2	1-1318983-6
	YY	2-917807-2	2-1318983-6
	XY	3-917807-2	3-1318983-6

* The 2 pos. receptacles use same 2 pos. housing of D-5200S Series.
The 4 pos. receptacles use same 4 pos. housing of D-5200M Series.
The contacts, however, are D-5 α (Silver plated type).

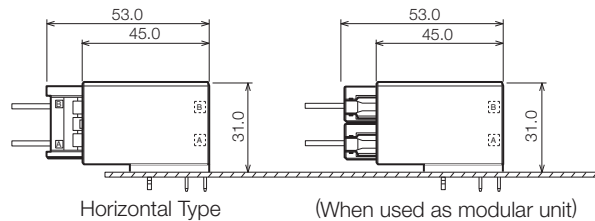
Keying

Keying is provided with this product (D-5200M α) to help prevent misinsertion. Three types, XX, YY, and XY, are available.

D-5200 Series (Continued)

D-5200M α — High Current Type (Continued)

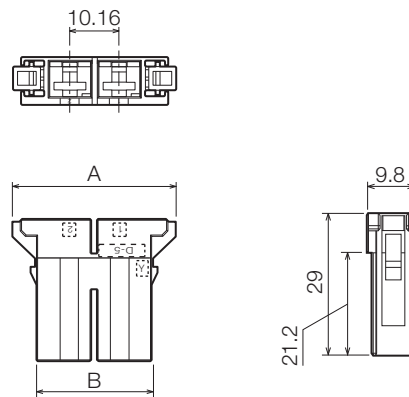
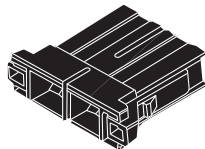
Mating Dimensions



External Dimensions

Receptacle Housing (2 Pos.)

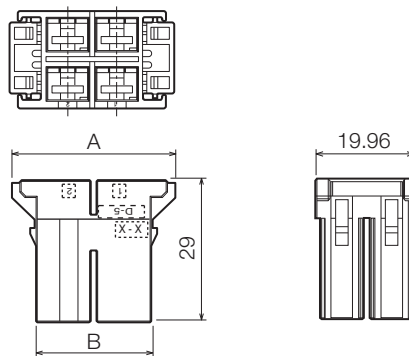
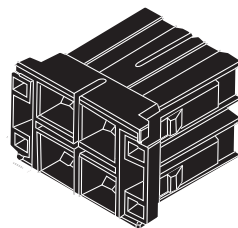
Mating Tab Header
Part Number:
□-1318983-□



No. of Positions	Keying	Part Number of Receptacle Housing	Dimensions	
			A	B
2	X	1-179958-2	35.76	23.76
	Y	2-179958-2		

Receptacle Housing (4 Pos.)

Mating Tab Header
Part Number:
□-1318983-□



No. of Positions	Keying	Part Number of Receptacle Housing	Dimensions	
			A	B
4	XX	1-917807-2	33.36	23.76
	YY	2-917807-2		
	XY	3-917807-2		

D-5200 Series (Continued)

D-5200M α — High Current Type (Continued)

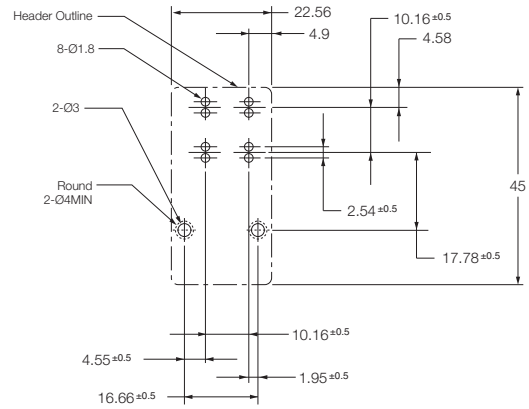
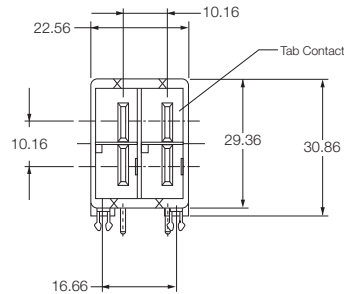
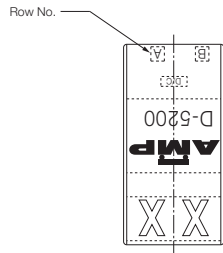
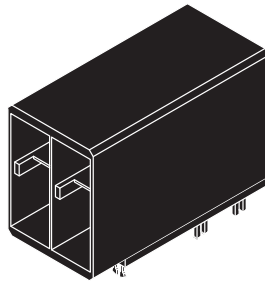
Board-mount Tab Header (Horizontal Type)

Mating Receptacle Housing

Part Number:

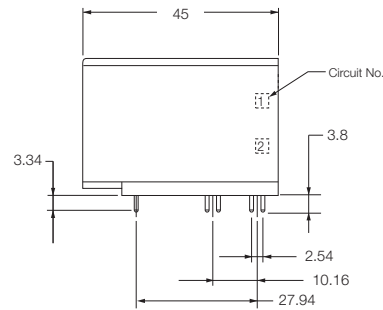
□-179958-□

□-917807-□



PC Board Layout

Applicable Board
Thickness: 1.6~2.4±0.1

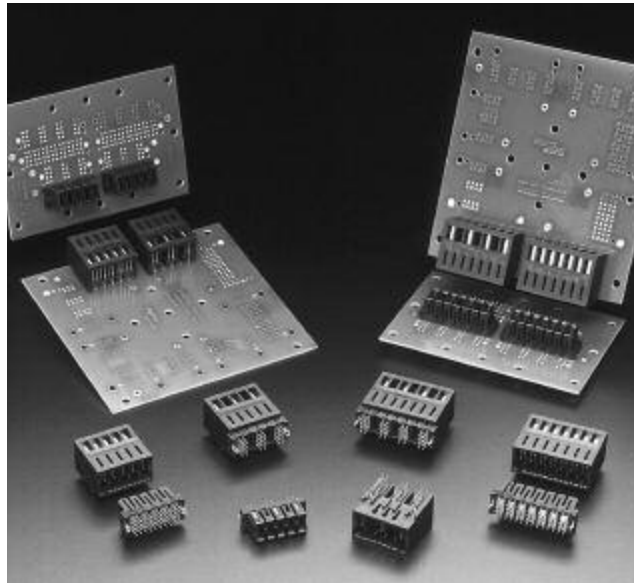


No. of Positions	Keying	Part Number of Tab Header
4	XX	1-1318983-6
	YY	2-1318983-6
	XY	3-1318983-6

DZ-5200 Series (Board-to-Board)

DZ-5200 Series

High-current board-to-board connectors with 30A per contact are useful for cableless control boards.



Material and Finish

Receptacle Contact — Phosphor bronze or copper alloy, gold plated with 1.27 μ m nickel underplate

Tab Contact — Phosphor bronze or copper alloy, gold plated with 1.27 μ m nickel underplate

Tab Post — Copper alloy, tin plated and gold plated with 1.27 μ m nickel underplate

Housing — Glass filled polyester (PBT), UL 94V-0

Performance Characteristics

*When connectors are used singly

Pitch — 5.08mm/10.16mm

Voltage Rating —

5.08mm pitch: 250 V (rms);

10.16mm pitch: 600 V (rms)

Current Rating —

5.08mm pitch: 20A;

10.16mm pitch: 30A

Contact Resistance — 10 m Ω max.

Dielectric Withstanding Voltage — 1,500 V (1 minute)

Operating Temperature — -55°C ~ +105°C

Technical Documents

Product Specification

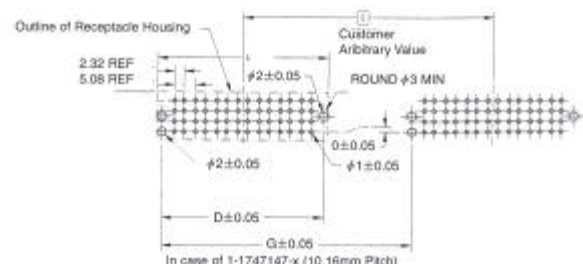
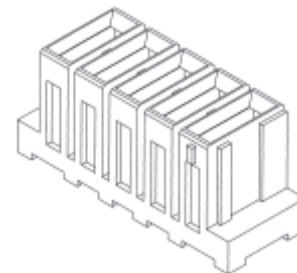
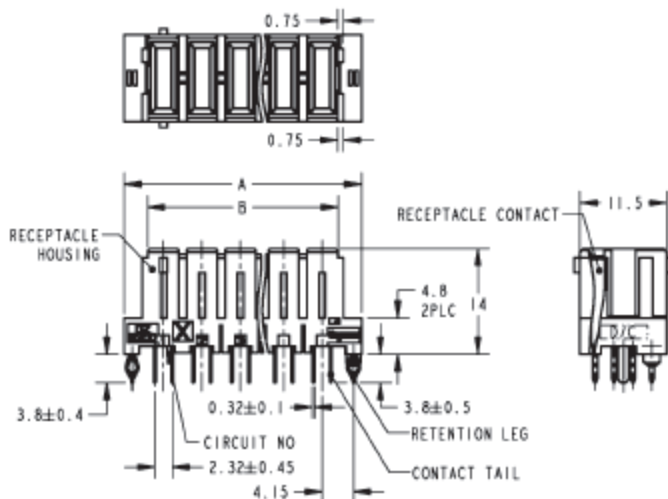
108-78186

Receptacle Header

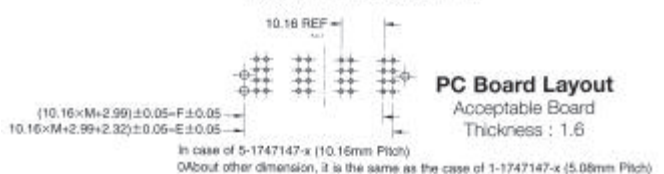
Mating Tab Header

Part Number:

□-1747145-□



No. of Pos.	Pitch mm	Part Number	Dimensions	
			A	B
3	10.16	5-1747147-3	30.76	24.56
4		5-1747147-4	40.92	34.72
5	5.08	1-1747147-5	30.76	24.56
7		1-1747147-7	40.92	34.27



DZ-5200 Series (Continued)

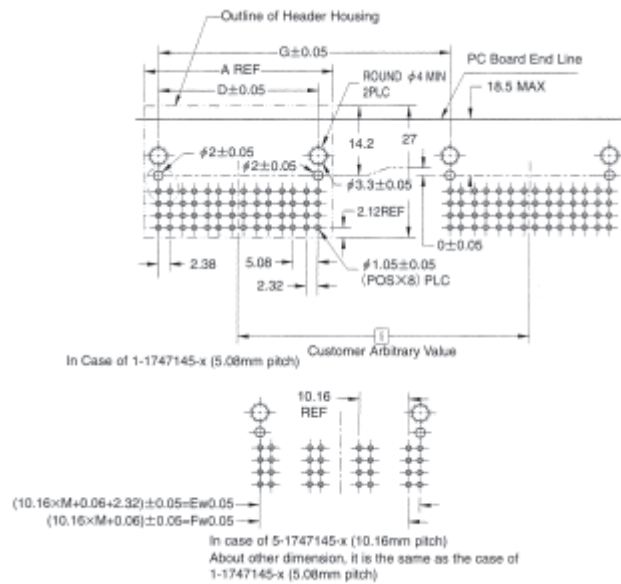
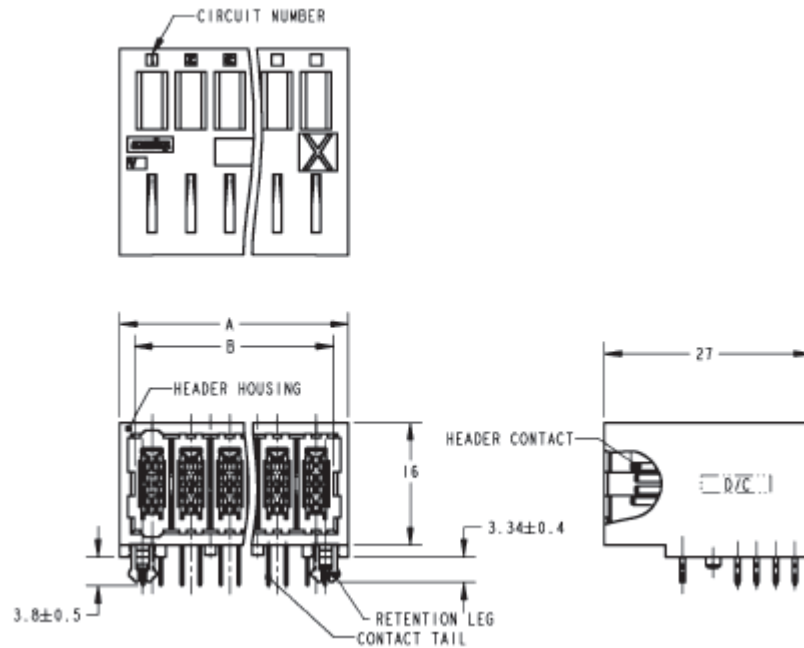
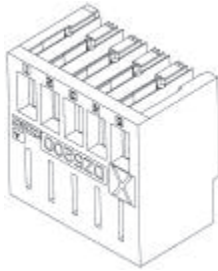
DZ-5200 Series (Continued)

Tab Header

Mating Receptacle Header

Part Number:

□-1747147-□

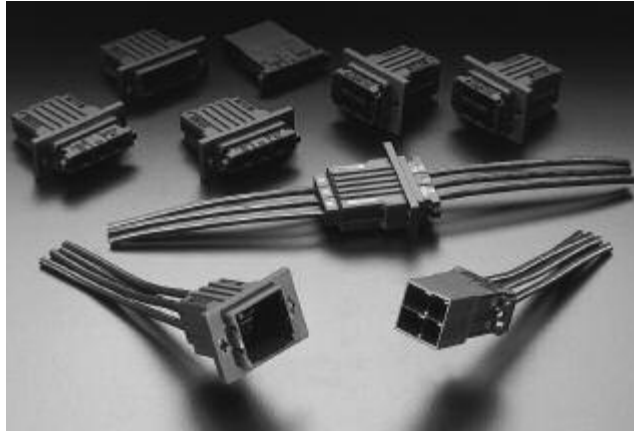


PC Board Layout
Acceptable Board Thickness: 1.6

No. of Pos.	Pitch mm	Part Number	Dimensions	
			A	B
3	10.16	5-1747145-3	28.76	24.86
4		5-1747145-4	38.92	35.02
5	5.08	1-1747145-5	28.76	24.86
7		1-1747145-7	38.92	35.02

D-5300 Series (Wire-to-Panel and Wire-to-Wire)

D-5300 Series Reverse Mount Type



Reverse mount type allows Dynamic Series receptacle contact to be used on panel mount side.

The Dynamic D-5300 Series supports receptacle contact storage demand to conductor housing and such applications where safety standards are important. The receptacle contact satisfies the IP20 rating, which contributes to equipment safety. Plus, a new addition

to the lineup are long tab contacts so contact is made in advance when mating and retains current until completely unmated.

Also, because it uses the D-5000 Series high-current contacts, which have a good reputation in industry, it not only keeps costs for new equipment to a minimum, it also really helps to shorten initial evaluation times.

Material and Finish

Receptacle Contact — Copper alloy, gold plated or silver plated over nickel underplate

Tab Contact — Copper alloy, gold plated or silver plated over nickel underplate

Housing — Glass filled polyester (PBT), UL 94V-0

Performance Characteristics

*When connectors are used singly

Pitch — 400 mil (10.16mm)

Voltage Rating — 630 VAC

Current Rating —

#10: 30A; #12: 25A; #16: 16A

Contact Resistance — 2 mΩ max.

Dielectric Withstanding Voltage — 3,000 V (1 minute)

Operating Temperature — -55°C ~ +105°C

Related Product Data

D-5 Contact (Refer to page 84)

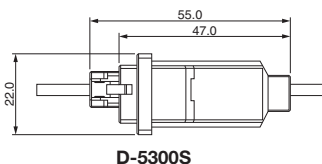
D-5300 Series (Continued)

D-5300 Series (Continued)

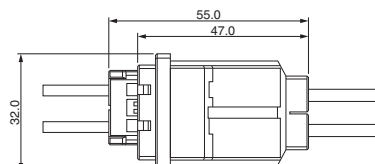
Mating Dimensions

Keying

This product (D-5300) is provided with keying to help prevent mismatching of the connector halves. Keying is available in five types—X Type, Y Type, XX Type, YY Type and XY Type.



D-5300S



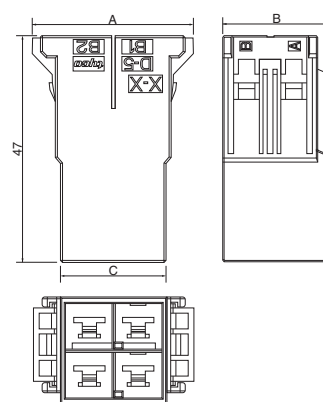
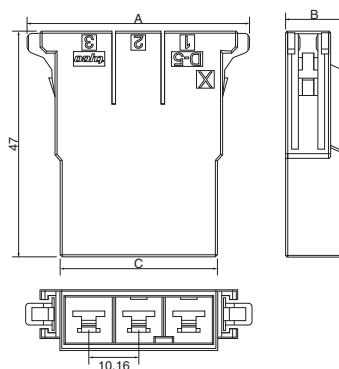
D-5300D

Panel/Free-hanging Type

Dimensions

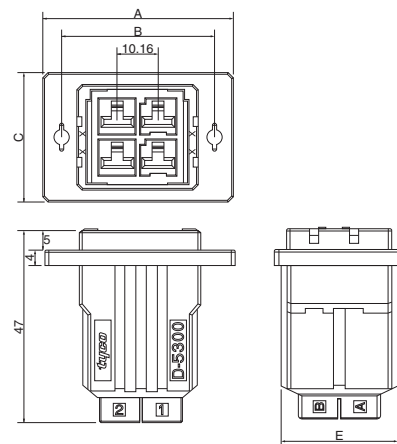
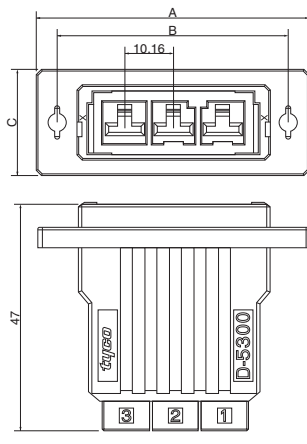
Tab Housing

Panel Mount Type

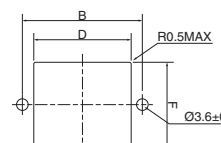


No. of Pos.	Keying	Part Number	Dimensions		
			A	B	C
3	X	1-1747819-3	46.48	12.46	32.68
	Y	2-1747819-3	46.48	12.46	32.68
4	XX	1-1747820-2	33.84	22.62	22.46
	YY	2-1747820-2	33.84	22.62	22.46
	XY	3-1747820-2	33.84	22.62	22.46

Receptacle Housing



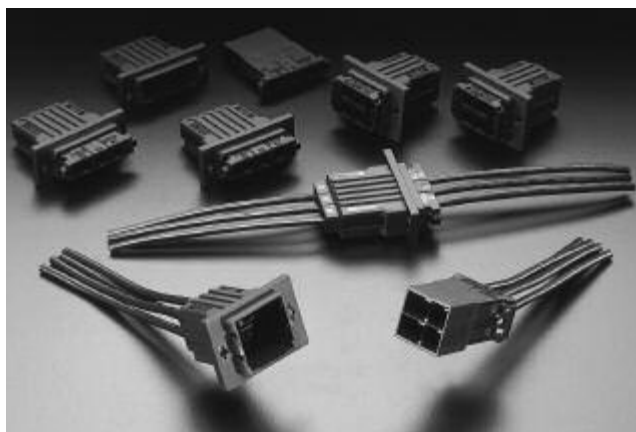
No. of Pos.	Keying	Part Number	Dimensions					
			A	B	C	D	E	F
3	X	1-1747821-3	57	48	22	41.1	18.16	16.8
	Y	2-1747821-3	57	48	22	41.1	18.16	16.8
4	XX	1-1747822-2	47	38	32	30.6	28.32	26.9
	YY	2-1747822-2	47	38	32	30.6	28.32	26.9
	XY	3-1747822-2	47	38	32	30.6	28.32	26.9



Panel Cutout

AMP Dynamic with HTS Connectors (Wire-to-Panel and Wire-to-Wire)

2800/3800 Series



This Series is a combination of the proven HTS series rectangular connectors and the popular Dynamic Series connector line.

Metal hoods and frames of HTS connectors, which offers many choices depending on sizes and mounting styles are employed. Sizes and number of positions can be selected to meet the appli-

cation needs. It is also suitable for high-current applications.

Sequential terminals are available to enable termination with automatic crimping machines. Termination time can be substantially reduced.

Approximately 30% higher density mounting is possible compared to the high density HTS connectors.

Material and Finish

Receptacle Contact — Phosphor bronze or copper alloy, gold plated with 1.27 μm nickel underplate

Tab Contact — Phosphor bronze or copper alloy, gold plated with 1.27 μm nickel underplate

Housing — Glass filled polyester (PBT), UL 94V-0

Performance Characteristics

Voltage Rating —

D-2800 Series: 250 V;

D-3800 Series: 600 V

Current Rating —

D-2800 Series: 5A (#18 AWG);

D-3800 Series: 15A (#16 AWG)

Contact Resistance — 10 m Ω max.

Dielectric Withstanding Voltage — 1,500 V (1 minute)

Operating Temperature — -55°C ~ +105°C

Technical Documents

Product Specifications

108-78284

108-78285

Application Specifications

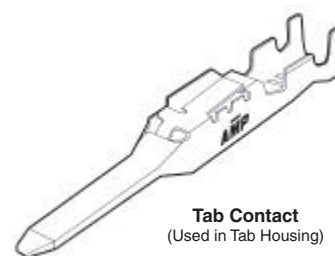
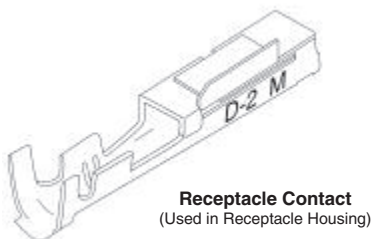
114-5258

114-5148

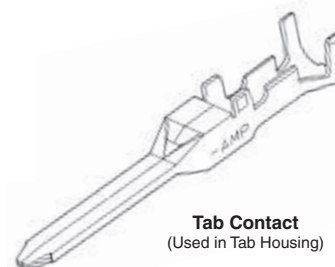
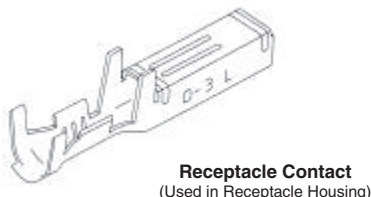
Contact

Contacts of proven Dynamic Series, as well as the existing special tools and applicators, can continue to be used.

D-2 Contact



D-3 Contact



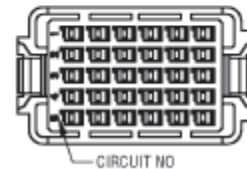
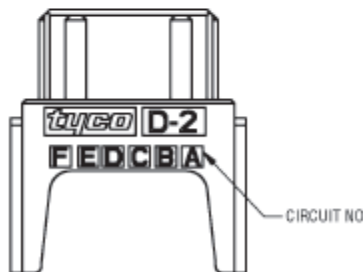
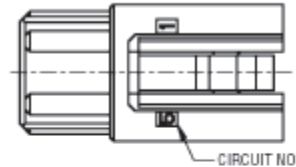
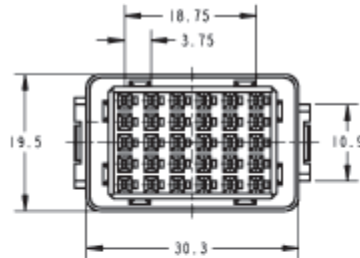
AMP Dynamic with HTS Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

2800 Series

Receptacle Housing

No. of Pos.	Part Number
30	1747365-1

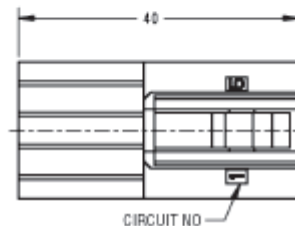
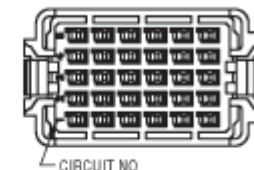
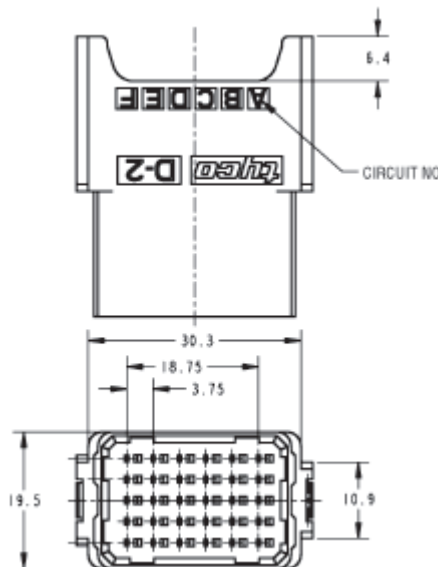
Mating Tab Housing
Part Number:
1747366-1



Tab Housing

No. of Pos.	Part Number
30	1747366-1

Mating Receptacle Housing
Part Number:
1747365-1



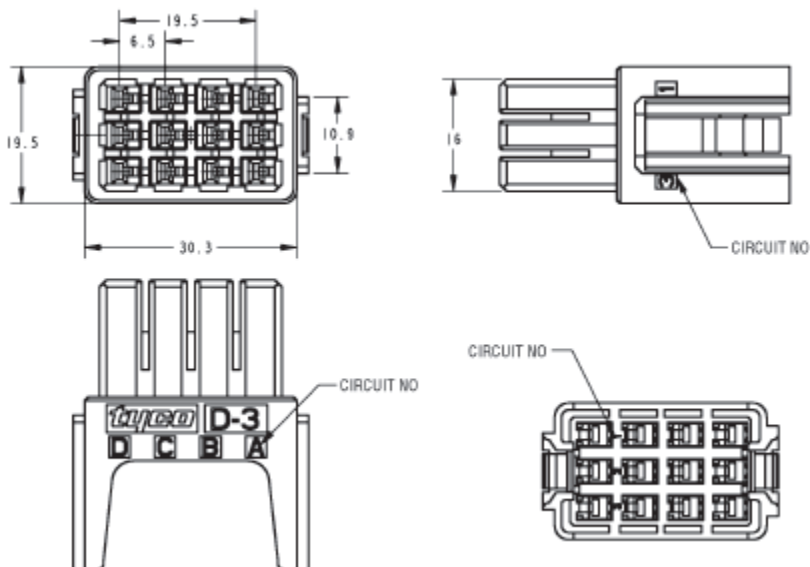
AMP Dynamic with HTS Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

3800 Series

Receptacle Housing

No. of Pos.	Part Number
12	1747363-1

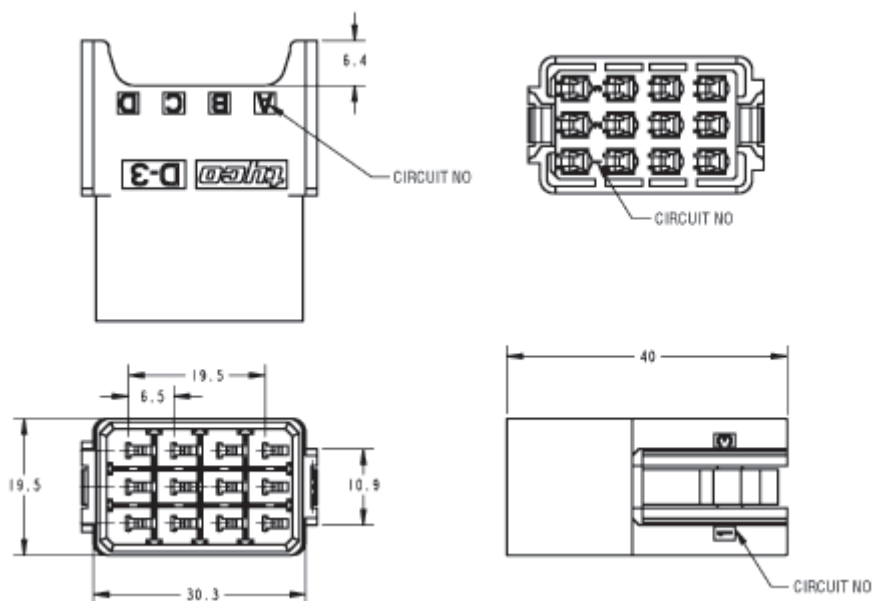
Mating Tab Housing
Part Number:
1747364-1



Tab Housing

No. of Pos.	Part Number
12	1747364-1

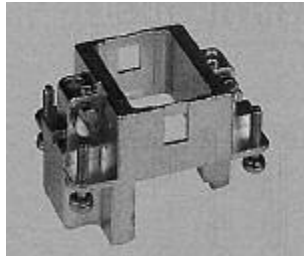
Mating Receptacle Housing
Part Number:
1747363-1



AMP Dynamic with HTS Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

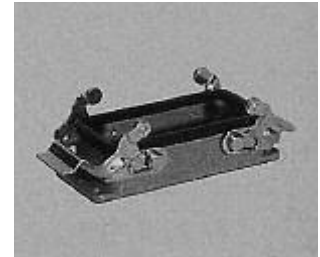
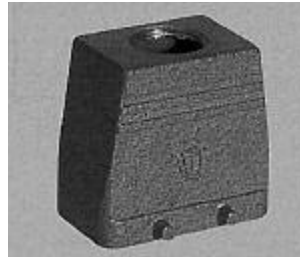
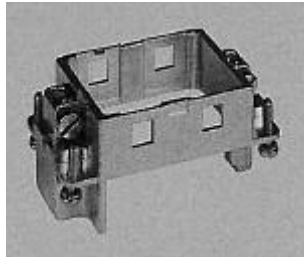
Frames and Metal Housings

	Frame	Applicable Metal Housing
Size 3 (1 Module Type)		Refer to HTS Catalog 889745-2

Part Number: **1108784-1**


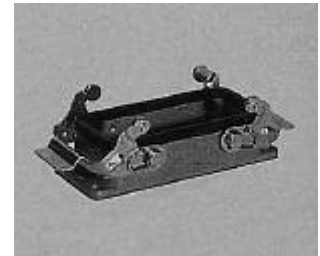
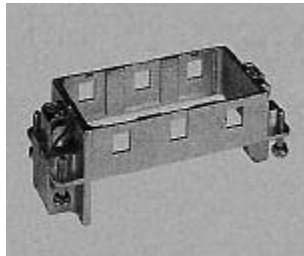
Refer to HTS Catalog 889745-2

Size 4 (2 Module Type)

Part Numbers:
1108783-1 (Male)
1108783-2 (Female)


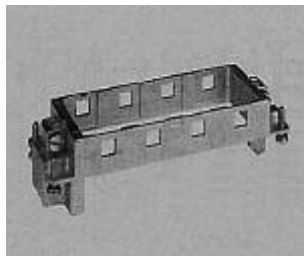
Refer to HTS Catalog 889745-2

Size 6 (3 Module Type)

Part Numbers:
1108782-1 (Male)
1108782-2 (Female)


Refer to HTS Catalog 889745-2

Size 8 (4 Module Type)

Part Numbers:
1108780-1 (Male)
1108780-2 (Female)


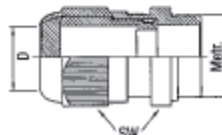
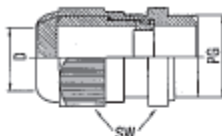
Refer to HTS Catalog 889745-2

AMP Dynamic with HTS Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

Cable Fittings

Plastic Type

Gland fitting IP 68 plastic



PG	D		SW	Designation	Part Number
	Min.	Max.			
11	5	10	22	HUT.11.P	1-1106005-7
13.5	6	12	24	HUT.13.P	2-1106005-7
16	10	14	27	HUT.16.P	3-1106005-7
21	13	18	33	HUT.21.P	4-1106005-7
29	18	25	42	HUT.29.P	5-1106005-7
36	22	32	53	HUT.36.P	6-1106005-7
42	32	38	60	HUT.42.P	7-1106005-7

Metr.	D		SW	Designation	Part Number
	Min.	Max.			
M16	4	8	20	HUT.M16.P	1-1102771-6
M20	6	12	24	HUT.M20.P	2-1102771-0
M25	10	14	29	HUT.M25.P	2-1102771-5
M32	13	18	36	HUT.M32.P	3-1102771-2
M40	18	25	46	HUT.M40.P	4-1102771-0
M50	22	32	55	HUT.M50.P	5-1102771-0

Metal Type

Gland fitting IP 68 brass, nickel plated neoprene sealing insert and O-ring at connection thread.



PG	D		SW	Designation	Part Number
	Min.	Max.			
11	5	10	20	HUT.11.MS	1-1106006-9
13.5	6	12	22	HUT.13.MS	2-1106006-9
16	10	14	24	HUT.16.MS	3-1106006-9
21	13	18	30	HUT.21.MS	4-1106006-9
29	18	25	40	HUT.29.MS	5-1106006-9
36	22	32	50	HUT.36.MS	6-1106006-9
42	32	38	57	HUT.42.MS	7-1106006-9

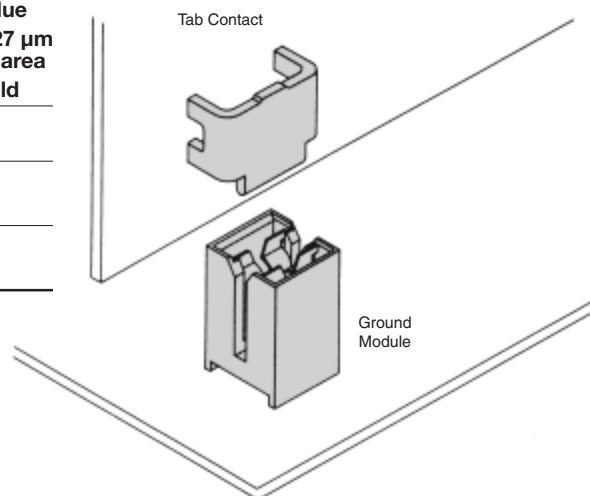
Metr.	D		SW	Designation	Part Number
	Min.	Max.			
M16	5	10	17	HUT.M16.P	1-1102770-6
M20	6	12	22	HUT.M20.P	2-1102770-0
M25	13	18	27	HUT.M25.P	2-1102770-5
M32	18	25	34	HUT.M32.P	3-1102770-2
M40	22	32	43	HUT.M40.P	4-1102770-0
M50	32	38	55	HUT.M50.P	5-1102770-0

Note: Variable options are available other than those listed above. Please refer to HTS Catalog 889745-2.

Power Connector for Board-to-Board Application

Can be used for tab contact connection.
Besides, board can be directly inserted into this connector.

Material & Finish	Housing: Glass-filled thermoplastic, blue Contact: Copper alloy, plated gold (1.27 μ m thick) on contact area and tin on post area Tab Contact: Brass, 1.27 μ m plated gold
Current Rating	20A
Operating Temperature	-55°C ~ +85°C
Insertions and Extractions	30 times

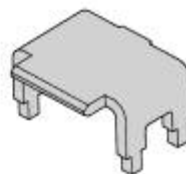


Ground Module



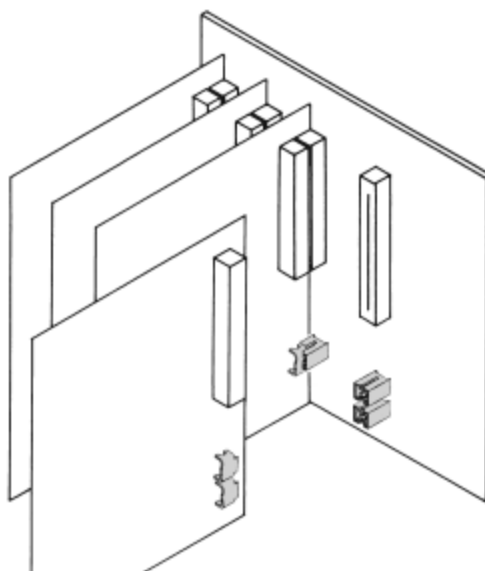
Part Number
119341-1

Tab Contact



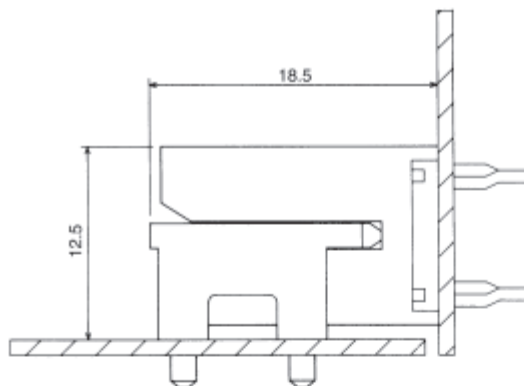
Part Number
175145-2

Application



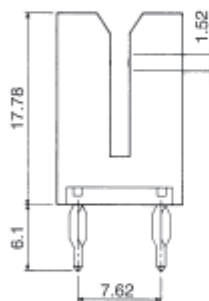
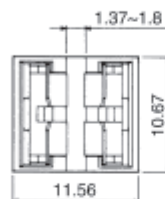
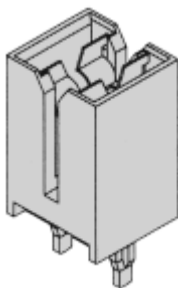
Power Connector for Board-to-Board Application (Continued)

Mating Dimensions



External Dimensions

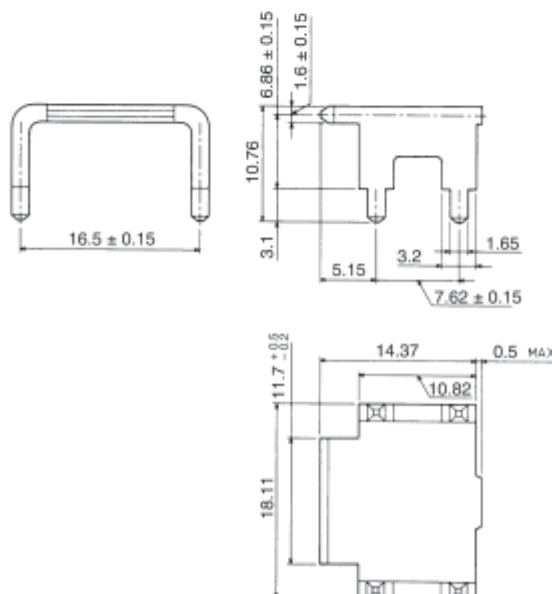
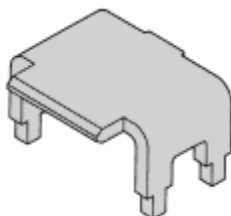
Ground Module



Applicable Board Thickness: 1.37~1.8

Part Number
119341-1

Tab Contact

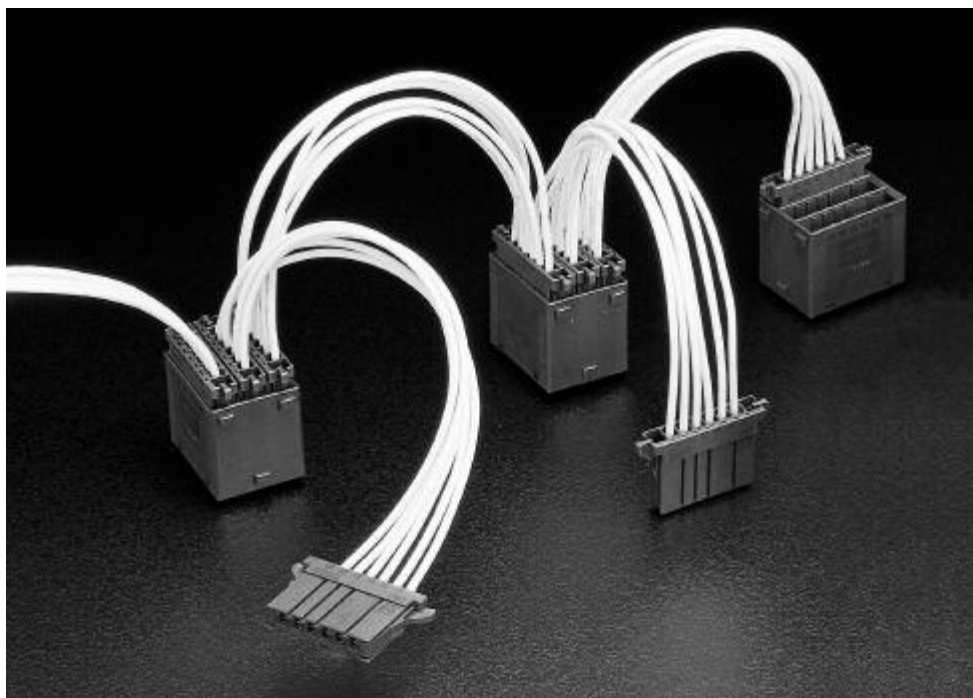


Part Number
175145-2

Dyna-Tap Connectors (Wire-to-Panel and Wire-to-Wire)

Product Facts

- As many Dyna-Tap Connectors will be fixed on casings where dust protection will be needed, dust covers are incorporated into the design. With the dust cover, this connector can be applied in various environments



Many pieces of FA equipment are produced by assembling sub-units with divided functions in the final assembly line. Power for each sub-unit of conventional equipment is branched from the power supply bus line over a printed circuit board. In order to save valuable printed circuit board space, Tyco Electronics has developed Dyna-Tap Connectors from which power can be tapped without printed circuits.

Dyna-Tap Connectors are a part of Dynamic Series, which are developed as power supply connectors. Dyna-Tap Connectors are optimized for branching power from the power supply bus line.

In order to cope with three power systems, which are the most popular in the industry, 6-position connectors are specified.

Product Lineup

Free-hanging type and panel mount type are available. The part number of the mating connector is 1-178288-6.

Applications

- Power taps in elevator towers
- Power taps for power protective relays
- Power taps among sub-units of semiconductor producing equipment
- Power supplies for equipment on production lines

Performance Characteristics

Voltage Rating — 250 VAC

Current Rating — 8A (18-position, with AWG#14)

Position — 6 pos. x 3 = 18 pos.

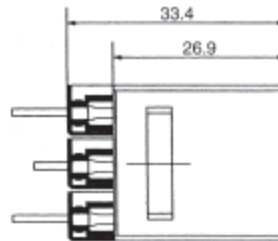
Durability — 500 cycles

Technical Document

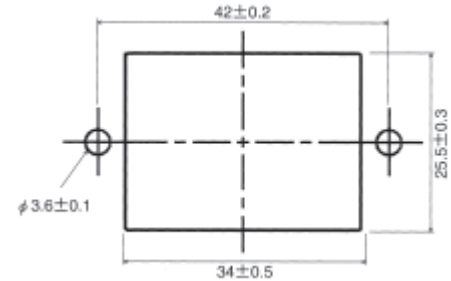
Product Specification
108-5754

Dyna-Tap Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

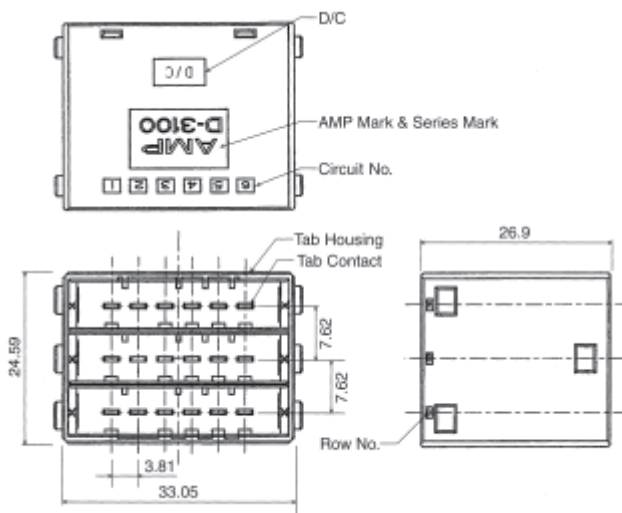
Mating Dimensions



Tab Housings (18-Position)

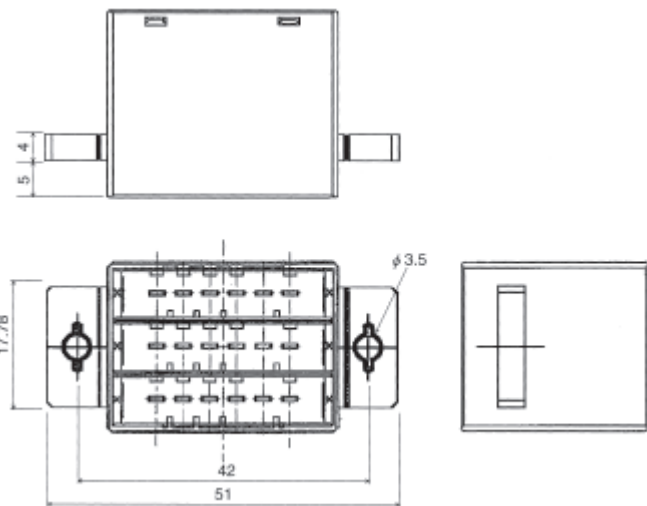


Free-Hanging Type Part Number 1376807-1



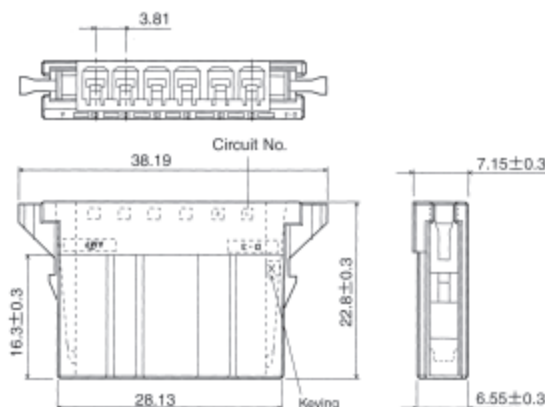
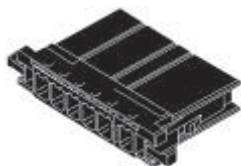
Panel Mount Type Part Number 1376807-2

Panel Cutout
When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].



Mating Receptacle Housing (6-Position)

Part Number 1-178288-6



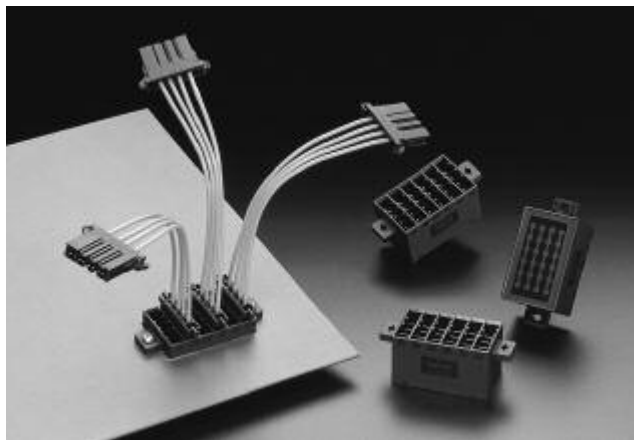
Caution:

Dynamic Series contacts are available either with gold plating or tin plating. However, Dyna-Tap Contacts are only available with 0.38 µm thick gold plating. Mating gold plated contacts with tin plated contacts will cause electrolytic corrosion. Therefore, please choose gold plated contacts for the mating Dyna-Tap Connectors.

Dyna-Tap Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

D-3000 Series

D-3200 Series Dyna-Tap 24P (4P x 6 Row)



D-3200 4P common series are lined up in six rows.

Issues about branching maintenance and cost are handled with connectors.

The Dynamic Series power supply tap is known for its superior contact reliability. Compared to a terminal block it is possible to reduce installation and maintenance costs. Also, because the circuits are electronically commoned, circuit board and connector do not need to be mounted. This leads to reductions in number of components and man hours as well as an overall decrease in costs.

Material and Finish

Receptacle Contact — Copper alloy, plated gold or tin over nickel underplate

D-3 Contact — Copper alloy, plated gold or tin over nickel underplate

Tab Post — Copper alloy, plated 0.38 μm gold or 2.0 μm tin over 1.3 μm nickel underplate

Housing — Glass filled polyester (PBT), UL 94V-0

Performance Characteristics*

Pitch — 200 mil (5.08 mm)

Voltage Rating — 600 VAC

Current Rating —
24-position: 10 A Max.

Contact Resistance — 10 m Ω Max.

Dielectric Withstanding Voltage —
2,200 VAC (1 minute)

Operating Temperature —
-55°C ~ +105°C

*When connectors are used singly.

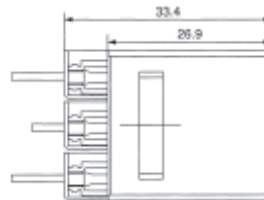
Related Product Data

D-3 Contact (Refer to page 101)

Dyna-Tap Connectors (Wire-to-Panel and Wire-to-Wire) (Continued)

D-3200 Series Dyna-Tap 24P (4P x 6 Row) (Continued)

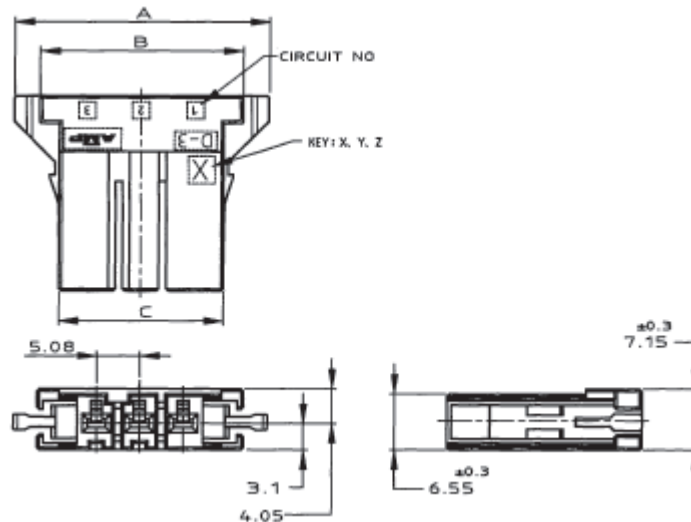
Mating Dimensions



Panel/Free-hanging Type

Dimensions

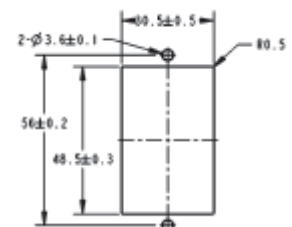
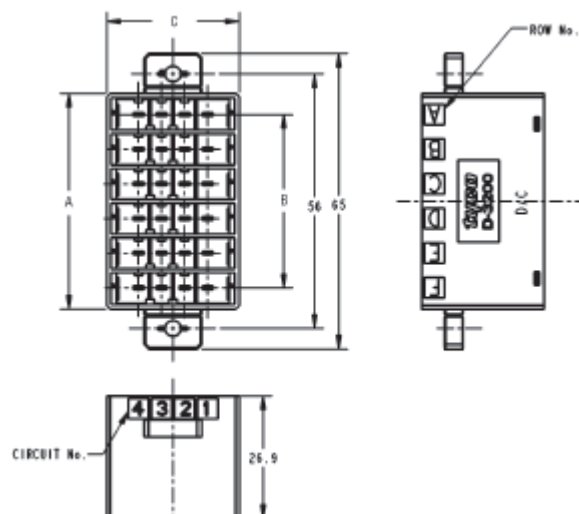
Receptacle Housing



No. of Pos.	Part Number	Dimensions		
		A	B	C
3	1-178128-3	29.70	24.10	19.24

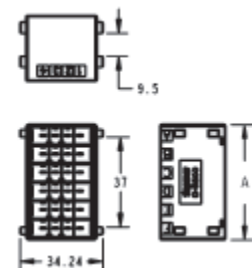
Tab Housing

Panel Mount Type



Panel Cutout

Free-hanging Type



No. of Pos.	Plating	Part Number		Dimensions		
		Panel Mount Type	Free-hanging Type	A	B	C
24	0.38 µm Gold	1827691-2	1827691-1	47.45	38.1	29.24
	2.0 µm Tin	1-1827691-2	1-1827691-1			

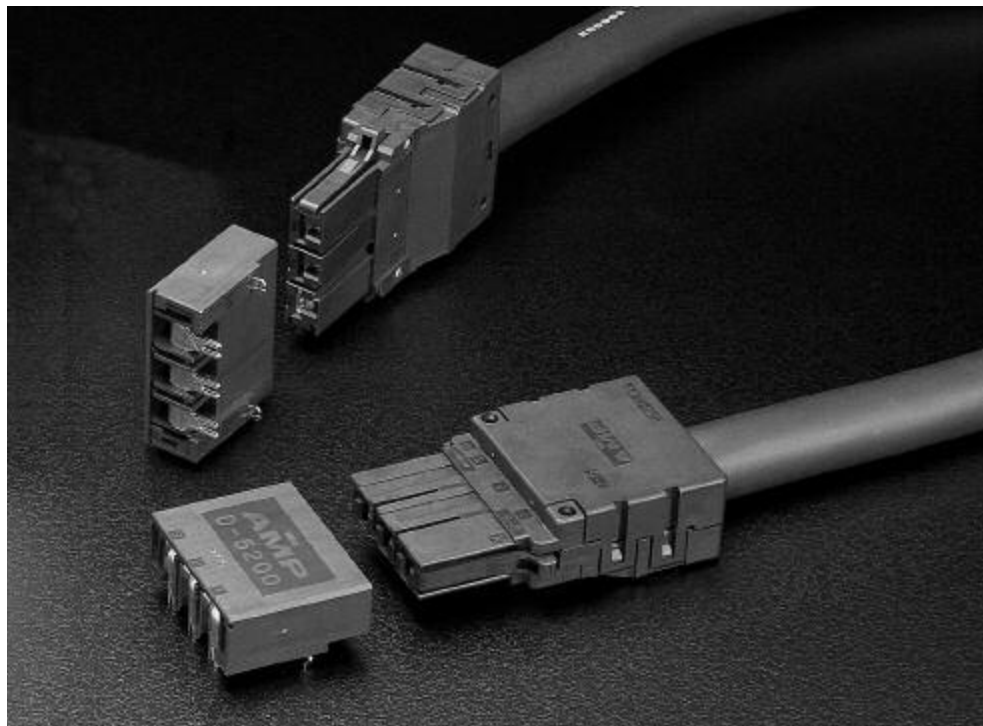
Dyna-Clamp Kit (Wire-to-Board, Wire-to-Panel and Wire-to-Wire)

Most connectors mounted outside of many pieces of FA equipment are made of metal because of their robustness. Connectors made of metal have a very high performance level.

However, connectors made of metal are more costly than connectors made of plastics.

Tyco Electronics has added a cable clamp function to the existing Dynamic Series. With this new design, the robustness of Dynamic Series connectors made of plastic has been improved remarkably.

This lower cost connector can contribute to the total cost reduction of end products.



Applications

- Power supply I/Os among sub-units of semiconductor producing equipment
- Power supply I/Os for control panels
- Power supply I/Os for power control panels
- Power supply I/Os for robots

Product Lineup

This 3-position connector was developed from the Dynamic Connector 5200 as its basis to realize low-cost 30 A class power distribution for FA equipment. The existing contacts can be used, which means the existing production method such as crimping tools or automatic machines can be utilized without any change.

Support for Obtaining UL, TÜV Approvals

It is more favorable to obtain UL and TÜV approvals with this connector than with metal connectors because of the following reasons:

Made of Plastic

Because of the plastic connector, ground wire at power supply is not necessary. This simplifies wirings of FA equipment and leads to lowering the total cost.

Sequential Structure

A sequential structure is designed so that the ground wire is always electrically connected before power lines.

Performance Characteristics

Voltage Rating — 6300 VAC

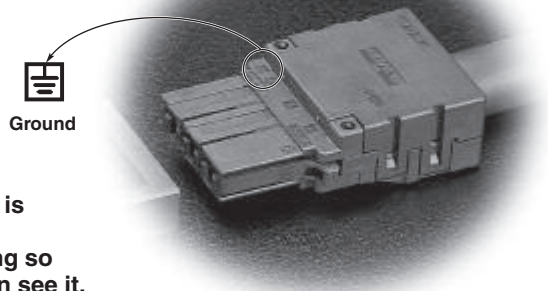
Current Rating — 30 A

Position — 3 pos.

Durability —

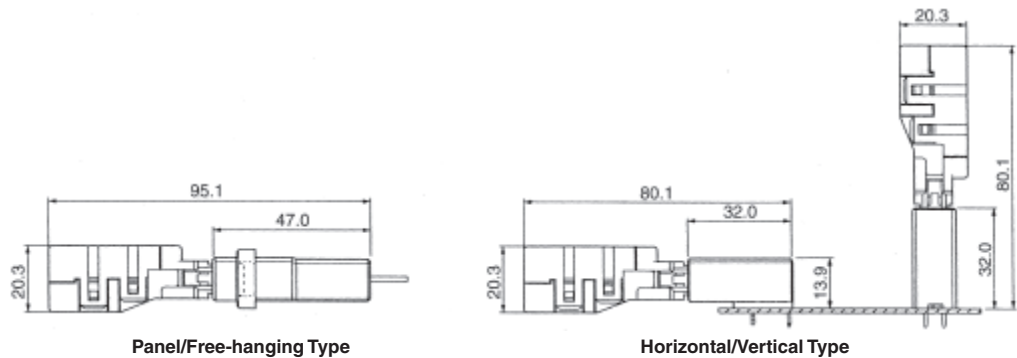
With 0.38 μ m contact: 50 cycles

With 0.76 μ m contact: 100 cycles



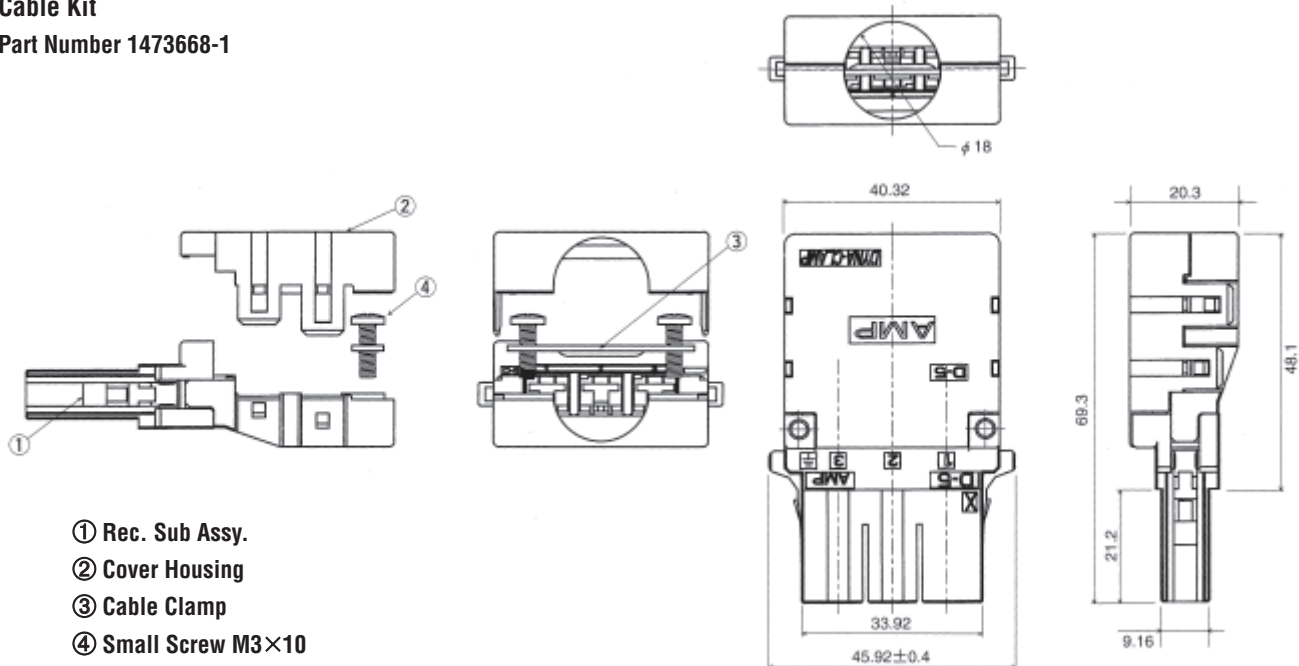
The ground mark is embossed on the connector housing so that operators can see it.

Dyna-Clamp Kit (Wire-to-Board, Wire-to-Panel and Wire-to-Wire) (Continued)



Cable Kit

Part Number 1473668-1



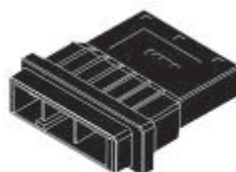
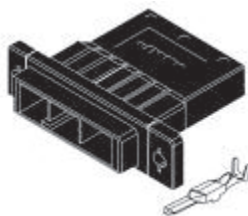
- ① Rec. Sub Assy.
- ② Cover Housing
- ③ Cable Clamp
- ④ Small Screw M3×10

Mating Connectors

Tab Housing

(Panel Type)

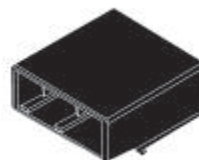
(Free-hanging Type)



Board Mounting Tab Header

(Horizontal Type)

(Vertical Type)



Tab Contact.....For each line of contacts, refer to the appropriate page

No. of Pos.	Part Number of Tab Housing		Board Mounting Tab Header	
	Panel Type	Free-hanging Type	Horizontal Type	Vertical Type
3	1-353047-3	1-353046-3	1-353081-□	1-353082-□

Note: Enter the following plating codes in -□ after Part Numbers:
-2 = 0.38 μm thick gold plating, -3 = 0.76 μm thick gold plating

Part Number Index

Note: This index lists all cataloged parts by base no. only. Complete part nos. (with prefixes and/or suffixes) are shown on the page(s) indicated.

Part No.	Page	Part No.	Page	Part No.	Page
84695	84	178328	49-51	917804	84
84696	84	178802	43, 45	917805	84
119341	106, 107	178803	49, 50	917807	90, 92-96
175145	106, 107	178964	49, 50	917808	90, 92
175194	38	179129	64	917809	90, 92
175195	38	179188	47, 48	1102770	105
175196	38	179276	56, 58, 59	1102771	105
175216	38	179277	56, 58, 59	1106005	105
175217	38	179552	56, 58	1106006	105
175218	38	179553	56, 58	1108780	104
175284	38	179554	62, 64, 66, 67	1108782	104
175285	38	179555	62, 64, 66, 67	1108783	104
175286	38	179955	84	1108784	104
175287	38	179956	84	1123309	90, 92, 93
175288	38	179958	86, 88, 89, 94-96	1123624	69
175289	38	179959	86, 88, 89	1123829	90, 92, 93
175362	73, 74, 75	179960	86, 88, 89	1318095	73, 74, 75
175363	73, 74, 75	179993	85	1318105	19
175365	73, 74, 75	316040	84	1318106	19
176346	76, 77	316041	84	1318107	19
177555	73, 75	316080	62, 64, 65	1318108	19
177555	74	316081	62, 64, 65	1318109	19
177648	43, 45	316130	56, 58, 59	1318110	19
177662	47, 48	316131	56, 58, 59	1318111	19
177665	47, 48	316132	56, 58, 59	1318112	19
177988	47	316133	56, 58, 59	1318114	24, 26
178127	52-55	316516	73-75	1318115	24, 26
178128	56, 58-61, 69, 111	316517	73-75	1318116	20, 22
178129	62, 64, 65	350381	86	1318117	20, 22
178136	56, 58, 59	353046	86, 88, 113	1318118	24, 26, 27
178137	52-55	353047	86, 88, 113	1318119	24, 26, 27
178138	56, 58, 59	353079	86, 88, 89	1318120	20, 22, 23
178139	62, 64-68	353080	86, 88, 89	1318123	20, 22, 23
178140	62, 64-68	353081	86, 88, 89, 113	1318124	24, 26, 27
178141	52, 53-55	353082	86, 88, 89, 113	1318125	24, 26, 27
178214	70-72	353715	38	1318126	24, 26, 27
178216	70-72	353716	38	1318127	24, 26, 27
178288	43, 45-48, 53, 109	353717	38	1318577	28-30
178289	49-51	353718	38	1318578	28, 29, 31
178293	43, 45, 46, 53	900121	42	1318579	28-30
178294	43, 45, 46	900128	42	1318696	84
178295	43, 45, 46	900167	28, 30, 66	1318697	84
178296	43, 45, 46	917226	67	1318983	94-96
178297	43, 45, 46	917241	73, 74	1318985	84
178298	43, 45, 46	917242	73, 74	1318986	84
178303	49-51	917249	70-72	1376009	24, 26, 27
178304	50	917251	70-72	1376020	24, 26, 27
178305	49-51	917266	66-68	1376059	28, 30
178306	49-51	917337	56, 58, 59	1376072	28, 29, 31
178307	49-51	917338	56, 58, 59	1376073	28, 31
178308	49-51	917389	60, 61	1376133	73-75
178313	43, 45, 46, 53	917484	38	1376135	20, 22, 23
178314	43, 45, 46	917485	38	1376136	24, 26, 27
178315	43, 45, 46	917511	38	1376137	24, 26, 27
178316	43, 45, 46	917512	38	1376807	109
178317	43, 45, 46	917541	86, 88, 89	1473074	20, 22, 23
178318	43, 45, 46	917542	86, 88, 89	1473668	113
178323	49-51	917657	62, 64, 65	1717412	49, 50, 51
178324	50	917658	62, 64, 65	1747145	97, 98
178325	49-51	917659	62, 64, 65	1747147	97, 98
178326	49-51	917802	84	1747276	79, 80
178327	49-51	917803	84	1747277	79, 80

Part Number Index (Continued)

Part No.	Page	Part No.	Page	Part No.	Page
1747363	103	1827572	7	1871731	7
1747364	103	1827579	14	1871743	7
1747365	102	1827581	14	1871744	7
1747366	102	1827583	15	1871745	7
1747414	79	1827586	7	1903111	7
1747415	78	1827587	7	1903112	7
1747416	78	1827588	7	1903113	7
1747418	78	1827589	7	1903114	7
1747419	78	1827691	111	1903115	7
1747498	78	1827862	8	1903116	7
1747499	78	1827863	8	1903117	7
1747500	78	1827864	12	1903118	7
1747501	78	1827872	9	1903120	7
1747535	79	1827873	9	1903121	7
1747819	100	1827875	12	1903122	7
1747820	100	1827876	13	1903124	7
1747821	100	1871056	9	1903125	7
1747822	100	1871057	8	1903126	7
1747994	24, 26, 27	1871303	7	1903127	8
1827538	33	1871304	7	1903128	8
1827540	33	1871315	9	1903129	11
1827569	7	1871465	10	1903130	13
1827570	7	1871468	10	1903131	13
1827571	7	1871673	13		

Application Tooling Part Number Index

Note: This index lists all cataloged parts by base no. only. Complete part nos. (with prefixes and/or suffixes) are shown on the page(s) indicated.

Part No.	Page	Part No.	Page	Part No.	Page
58571	39	234172	37	1762626	7
91558	38	409158	84	1762846	7
91559	38	919041	41	1762847	7
91560	38	919600	37	1762950	7
91561	38	919601	37	1762951	7
91565	38	919602	37	1762952	7
91576	18, 19	1366044	83, 84	1762953	7
91595	18, 19	1366656	83	1891033	7
91596	83, 84	1762119	78	1891035	7
175855	41	1762120	78	1891036	7
234168	41	1762129	78	1891037	7
234170	83, 84	1762130	78		
234171	83, 84	1762625	7		

Engineering Notes



Engineering Notes



Engineering Notes



Americas

Argentina – Buenos Aires
Phone: +54-11-4733-2200
Fax: +54-11-4733-2211

Brasil – São Paulo
Phone: +55-11-3611-1311
Fax: +55-11-3611-0397

Canada – Toronto
Phone: +905-475-6222
Fax: +905-474-5520
Product Information Center:
(Technical Support)
Phone: +905-470-4425
Fax: +905-474-5525

Colombia – Bogota
Phone: +57-1-231-9398
Fax: +57-1-660-0206

Mexico – Mexico City
Phone: +52-55-1106-0800
+01-800-733-8926
Fax: +52-55-1106-0901

United States – Harrisburg, PA
Phone: +717-564-0100
Fax: +717-986-7575
Product Information Center:
(Technical Support)
Phone: +800-522-6752
Fax: +717-986-7575

For Latin/South American Countries not shown
Phone: +54-11-4733-2015
Fax: +54-11-4733-2083

Asia/Pacific

Australia – Sydney
Phone: +61-2-9554-2600
Fax: +61-2-9502-2556
Product Information Center:
(Technical Support)
Phone: +61-2-9840-8200
Fax: +61-2-9634-6188

India – Bangalore
Phone: +91-80-285-40800
Fax: +91-80-285-40820

Indonesia – Jakarta
Phone: +65-6482-0311
Fax: +65-6482-1012

Japan – Tokyo
Phone: +81-44-844-8111
Fax: +81-44-812-3207
Product Information Center:
(Technical Support)
Phone: +81-44-844-8013
Fax: +81-44-812-3200

Korea – Seoul
Phone: +82-2-3415-4500
Fax: +82-2-3486-3810

Malaysia – Kuala Lumpur
Phone: +60-3-78053055
Fax: +60-3-78053066

New Zealand – Auckland
Phone: +64-9-634-4580
Fax: +64-9-634-4586

Philippines – Makati City
Phone: +632-848-0171
Fax: +632-867-8661

People's Republic of China
Hong Kong
Phone: +852-2735-1628
Fax: +852-2735-0243

Shanghai
Phone: +86-21-2407-1588
Fax: +86-21-2407-1599

Taiwan – Taipei
Phone: +886-2-8768-2788
Fax: +886-2-8768-2268

Singapore – Singapore
Phone: +65-6482-0311
Fax: +65-6482-1012

Thailand – Bangkok
Phone: +66-2-955-0500
Fax: +66-2-955-0505

Vietnam and Indochina –
Ho Chi Minh City
Phone: +84-8 930-5546
Fax: +84-8 930-3443

Europe/Middle East/Africa

Austria – Vienna
Phone: +43-1 90 5 60-0
Fax: +43-1 90 5 60-1333

Belgium – Kessel-Lo
Phone: +32-16-35-23-00
Fax: +32-16-35-23-52

Bulgaria – Sofia
Phone: +359-2-971-2152
Fax: +359-2-971-2153

Czech Republic – Kurim
Phone: +420-5-41-162-111
Fax: +420-5-41-162-223

Denmark – Glostrup
Phone: +45-43-480-452
Fax: +45-43-441-414

Egypt – Cairo
Phone: +20-2-29 04 281
Fax: +20-2-41 92 334

Estonia – Tartu
Phone: +372-5138-274
Fax: +372-7400-779

Finland – Helsinki
Phone: +358-95-12-34-20
Fax: +358-95-12-34-250

France – Cergy-Pontoise
Phone: +33-1-3420-8888
Fax: +33-1-3420-8600
Product Information Center:
(Technical Support)
Phone: +33-1-3420-8943
Fax: +33-1-3420-8623

Germany – Bensheim
Phone: +49-6251-133-0
Fax: +49-6251-133-1600
Product Information Center:
(Technical Support)
Phone: +49-6251-133-1999
Fax: +49-6251-133-1988

Germany – Langen
Phone: +49-6103-709-0
Fax: +49-6103-709-1223

Germany – Speyer
Phone: +49-6232-30-0
Fax: +49-6232-30-2243

Germany - HTS Division – Neunkirchen
Phone: +49-2247-305-0
Fax: +49-2247-305-122

Greece – Athens
Phone: +30-210-9370-396/397
Fax: +30-210-9370-655

Hungary – Budapest
Phone: +36-1-289-1000
Fax: +36-1-289-1010

Ireland – Dublin
Phone: +353-1-820-3000
Fax: +353-1-820-9790

Israel – Yokneam
Phone: +972-4-959-0508
Fax: +972-4-959-0506

Italy – Collegno (Torino)
Phone: +39-011-4012-111
Fax: +39-011-4031116

Lithuania – Vilnius
Phone: +370-5-2131-402
Fax: +370-5-2131-403

Netherlands – 's-Hertogenbosch
Phone: +31-73-624-62-46
Fax: +31-73-621-23-65
Product Information Center:
(Technical Support)
Phone: +31-73-6246-999
Fax: +31-73-6246-998

Norway – Nesbru
Phone: +47-66-77-8886
Fax: +47-66-77-8855

Poland – Warsaw
Phone: +48-22-45-76-700
Fax: +48-22-45-76-720

Romania – Bucharest
Phone: +40-21-311-3479/3596
Fax: +40-21-312-0574

Russia – Moscow
Phone: +7-495-926-5506/07/08/09
Fax: +7-495-926-5505

Russia – St. Petersburg
Phone: +7-812-718-8192
Fax: +7-812-718-8193

Slovenia – Ljubljana
Phone: +386-1561-3270
Fax: +386-1561-3240

South Africa – Port Elizabeth
Phone: +2741-503-4500
Fax: +2741-581-0440

Spain – Barcelona
Phone: +34-93-291-0330
Fax: +34-93-201-7879
Product Information Center:
(Technical Support)
Phone: +34-93-291-0330
Fax: +34-93-200-3779

Sweden – Upplands Väsby
Phone: +46-8-50-72-50-00
Fax: +46-8-50-72-50-01

Switzerland – Steinach
Phone: +41-71-447-0447
Fax: +41-71-447-0444

Turkey – Istanbul
Phone: +90-212-281-8181/2/3
Fax: +90-212-281-8184

Ukraine – Kiev
Phone: +380-044-206-2265
Fax: +380-044-206-2264

United Kingdom – Swindon
Phone: +44-8706-080-208
Fax: +44-1793-572-516
Product Information Center:
(Technical Support)
Freephone GB: 0800-267-666
Phone: +44-8706-080-208
Fax: +44-208-420-8081

For Middle East/African Countries Not Shown
Phone: +33-1-3420-8866
Fax: +33-1-3420-8300

Tyco Electronics Corporation
Harrisburg, PA

tycoelectronics.com

1242132-7.5M-LUG-FP-5-07

