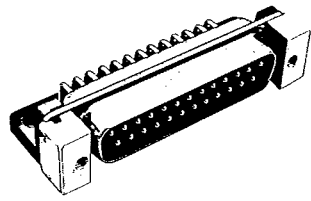


THROUGH HOLE TYPE · D* TYPE

■ Right Angle Trough Hole Type (For P.C. Board Mounting)

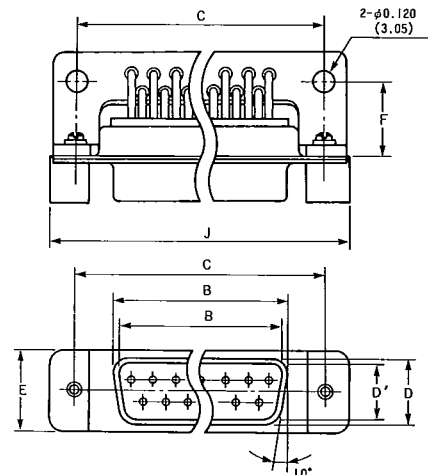
D*-**A-J4-A2



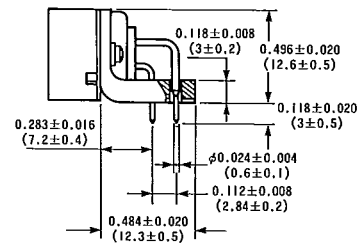
These connectors have screw lock assemblies with the mating side on both sides of the flange. The connectors are D*J4 type (for right angle, machine a contacts) for soldering on the printed circuit board. These screw lock assemblies are used to mate with connectors having jack screws installed with plastic junction shell (D*-C1, D*-C8, etc.) already attached.

• MATERIALS/FINISHES

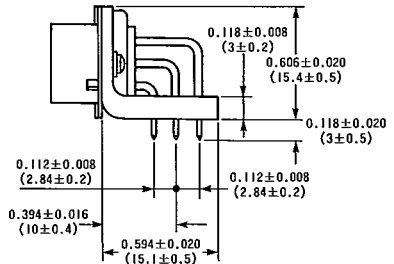
- Jackscrew: Aluminium alloy/yellow chromate over Zinc plate
- Contacts: Copper alloy/Gold plate
- Insulator: Polyester UL94V-0, black
- Bracket: Synthetic resin/UL94V-0, black



DE, DA, DB, DC size



DD size

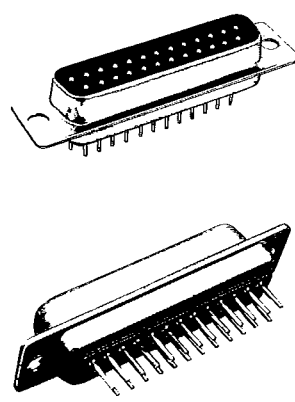


(NOTE) Dimensions: See Page 36
P.C.Board layouts ... See Page 61

No. of Contacts	Part Number		J ±.039 (±1)
	Pin	Socket	
9	DE-9PA-J4-2	DE-9SA-J4-2	1.303 (33.1)
15	DA-15PA-J4-2	DA-15SA-J4-2	1.630 (41.4)
25	DB-25PA-J4-2	DB-25SA-J4-2	2.169 (55.1)
37	DC-37PA-J4-2	DC-37SA-J4-2	2.819 (71.6)
50	DD-50PA-J4-2	DD-50SA-J4-2	2.724 (69.2)

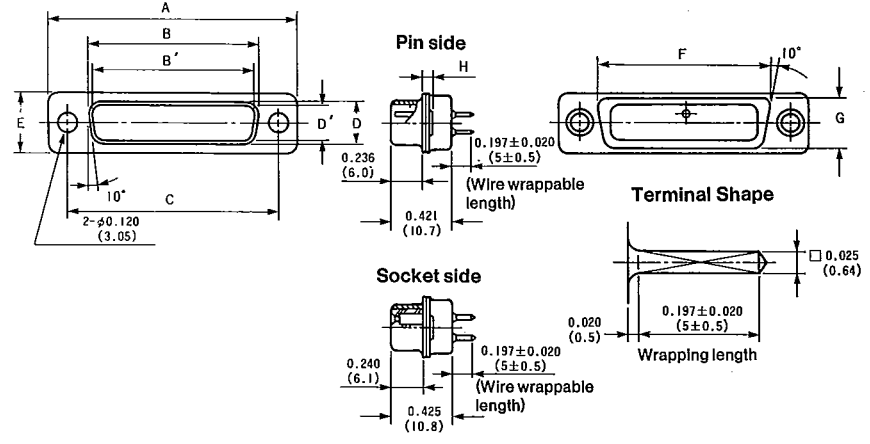
■ Wire-Wrap Type (For P.C. Board Mounting)

D*-**R



• MATERIALS/FINISHES

- Shell: Steel/yellow chromate over Zinc plate
- Insulator: Polyester UL94V-0
- Contacts: Copper alloy/Gold plate

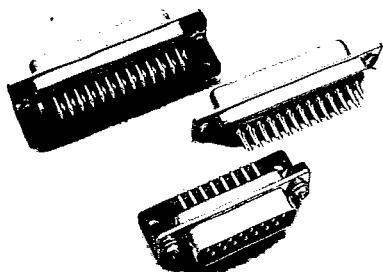


(NOTE) Dimensions: See Page 36

No. of Contacts	Part Number	
	Pin	Socket
9	DE-9P-R	DE-9S-R
15	DA-15P-R	DA-15S-R
25	DB-25P-R	DB-25S-R
37	DC-37P-R	DC-37S-R
50	DD-50P-R	DD-50S-R

**Right Angle Through Hole Type
(For P.C. Board Mounting)**

D*-A/D*-T TYPE



FEATURES

- **Right angle and straight PCB types**
For printed circuit board mounting. The connectors are available in two styles: right angle type to connect parallel to the board and those with straight PC tails to permit vertical termination. Both versions are available in both pin and socket contacts.
- The connectors have five shell sizes (E, A, B, C, and D), which respectively have the following contacts: 9, 15, 25, 37 and 50 conductors. Interchangeable with other D Sub connectors.
- **Stamped and machined Contacts**
Connectors can be ordered with contacts being either stamped or machined. The stamped types are available with either gold plating all over or selective plating with tin finish on the PC tails and gold only on the engaging areas.
- The right angle types can have screw lock assemblies for coupling with the mating side. Special grounding lugs are also available. Consult JAE about your requirements.
- Versions with wire wrap (.025 inches square) termination are also available in addition to those with PC tails. Consult JAE for product data and part numbers.

HOW TO ORDER

**DB-25PA-N
DB-25SA-N-S1**

- **Modifications**
N Stamped contacts
N-S1 . . Stamped contacts with solder tail tin plated
J4 . . . Machined contacts
J4-2 . . Machined contacts with Jackscrew assembly
- **Printed Circuit Terminal Modifier**
A Right Angle Terminal
T Straight Terminal
- **Contact Type: P . . Pin, S . . Socket**
- **Contact Type: 9, 15, 25, 37, 50**
- **Shell Size: E, A, B, C, D**
- **Series Prefix**

Mating combination of connectors

Select connectors of the same shell size and contact arrangement but different sexes for proper mating.
(Example) DA-15PA-N and DA-15SA-N

MATERIALS/FINISHES

Components	Material	Finish
Shell	Steel	Yellow Chromate over zinc plate
Insulator	Polyester	UL94V-0 Color: Black
Contact	Copper alloy	Engaging area: Gold plate Terminating area: Tin plate or Gold plate
Bracket	Synthetic resin	UL94V-0 Color: Black

STANDARD DATA

Current Rating	5 amp
Dielectric Rating	1,250 VAC (for one minute)
Insulation Resistance	5,000 megohms min.
Contact Resistance	4 milliohms max. (Initial)
Temperature Range	-67°F ~ +221°F (-55°C ~ +105°C)

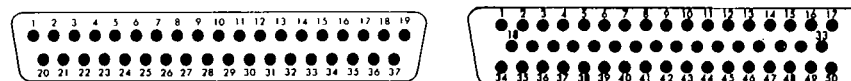
■ P.C.B. Layouts See page 62.

CONTACTS ARRANGEMENTS

(Face view of Pin Insert)



Shell Size	E	A	B
Contact Arrangement	9	15	25



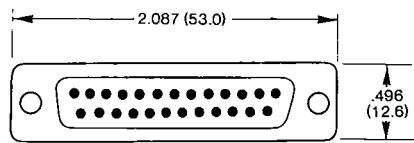
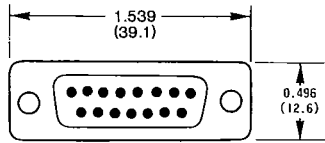
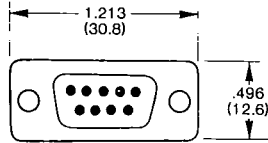
Shell Size	C	D
Contact Arrangement	37	50

FEATURES

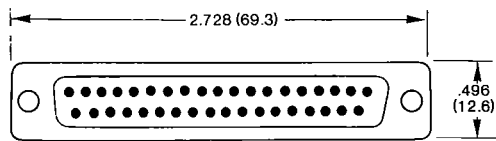
• **Five different shell sizes and numbers of conductors**

The connector housing is compact and rectangular. The contacts and insulators are contained in a rugged steel shell. There are five shell sizes (E, A, B, C, and D), respectively with standard contact counts of 9, 15, 25, 37, and 50. Special layouts to accept coaxial, high-voltage, and high-current contacts are also available.

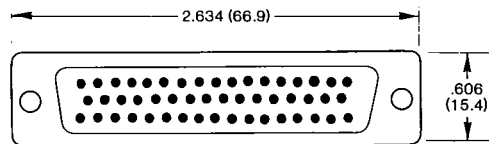
E	A	Shell Size:
9	15	Number of Conductors:



B	Shell Size:
25	Number of Conductors:



C	Shell Size:
37	Number of Conductors:



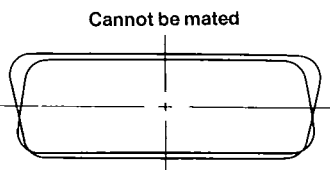
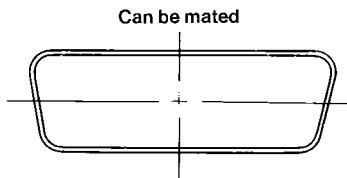
D	Shell Size:
50	Number of Conductors:

Special Layouts (D*M Type)



• **Fail-Safe Polarizing Mechanism**

The shell connecting part is keystone trapezoidal which inherently prevents incorrect coupling.



• **Official Standards**

D Sub connectors conform to many international standards including:

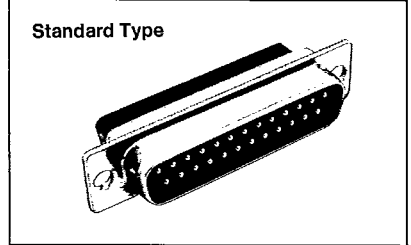
- Japan Industrial Standards
 - JIS-C-6361
 - JIS-C-6366
 - JIS-C-6367
- Japan Defense Agency Standards
 - NDSXC 6116
 - DSP C 6242
- US Military Standards
 - MIL-C-24308

• **Shell Type**

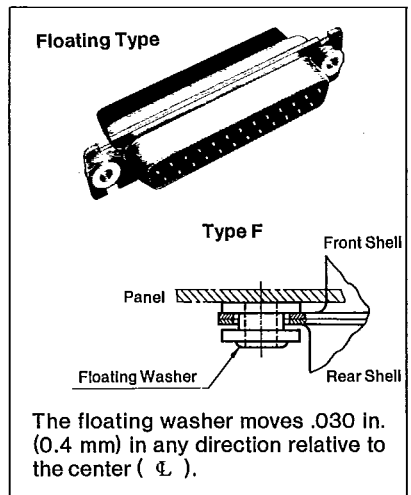
The shell profile comes in a panel-mounting standard type and floating type (the latter aids in rack-to-panel connection).

A-17-03
A-17-05
A-61-11
A-65-07

Standard Type



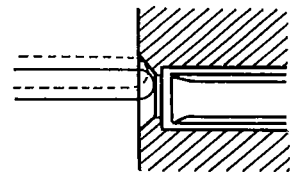
Floating Type



The floating washer moves .030 in. (0.4 mm) in any direction relative to the center (⌀).

• **Close Entry Construction**

Socket insulators have a closed entry construction which prevents entry of oversized contacts or probes.



• **Compatibility**

Individual connector types are interchangeable as are the accessories.

■ General Specification (Principal Performance)

Division	Item	Performance						
		D *		D * M	D * U			
		Stamped Contacts	Machined Contacts		Stamped Contacts		Machined	
Electrical Performance	Rated Current	5A						
	Dielectric Strength (See Level)	AC 1250 V r.m.s			AC 1000 V r.m.s			
	Insulation Resistance	5000 M-ohm or greater						
	Contact Resistance	2.7 m-ohm or less (5.0 m-ohm or less after the life and after salt spray). Test current: AWG No. 20, 7.5 a; AWG No. 22, 5; AWG No. 24, 3. *Through hole (PCB mounted connectors not applicable).						
Mechanical Performance	Contact Force	Mating force: 28.4 ~ 408 g Unmating force: 28.4 ~ 272 g	Mating force: 28.4 ~ 340 g Unmating force: 28.4 ~ 227 g	Mating force: 28.4 ~ 408 g Unmating force: 28.4 ~ 272 g				
	Connector Mating/Unmating Force	Mating force: (408 g × number of contacts) or less. Unmating force: (272 g × number of contacts) or less.	Mating force: (340 g × number of contacts) or less. Unmating force: (227 g × number of contacts) or less.	kg or less	Stamped Contact		Machined	
					Mating Force	Unmating Force	Mating Force	
					9	3.7	2.4	3.1
					15	6.1	4.1	5.1
25					10.2	6.8	8.5	
37	15.1	10.1	12.6					
50	20.4	13.6	17.0					
Contact Retention Force (kg or larger)	D *		D * M	D * U				
	Stamped Contacts	Machined Contacts		Stamped Contacts		Machined		
	4.5		4.1	3.6		4.5		
Vibrations	(1) The current (discontinuity) shall not exceed one (1) microsecond. (2) Shall pass the dielectric strength test at sea level. (3) Parts shall be free of cracks, damage, and looseness.							