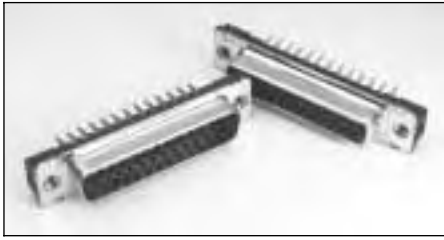


**D\*NG - Straight Pressfit Termination**

See pages 4-5.

The D\*NG is based upon the specification CECC75-301-802. These connectors provide a low-cost alternative to traditional through hole solder contacts. Utilizing stamped "Eye of the Needle" compliant contact tails per IEC-352-5, the parts are quickly and easily mounted onto PCBs without soldering, crimping or specialized tooling. The socket contact engaging area utilizes a "spoon" shape with four points of interconnection. Hardware options provide flexibility and ensure that the final product fits the electrical requirements of any application.

**Product Features**

Quick and easy press-in installation without specialized tooling  
 "Spoon" socket contact provides improved interface compared to "Tuning Fork"  
 Closed-entry socket for secure blind mating  
 Front-shell only design based on CECC 75-301-802  
 "Eye of the Needle" compliant contact tails  
 Press-in bolt for ground continuity  
 #4-40 UNC and M3 hardware options

**D\*M Straight Solder Termination (Machined) — Standard PC Tails**

See pages 6-7.

D\*M straight PCB connectors, equivalent to MIL-C-24308 qualified versions (except for finishes) for printed circuit boards and backplanes in demanding applications. Additional contact lengths, hardware and finish options available; consult factory for details.

**Product Features**

7.5 A current capacity  
 Machined contacts  
 2 contact finishes  
 Optional vertical standoffs, screw locks, and boardlocks (4 prongs)  
 UL file number E8572  
 Dimensionally compatible with Combo D®

**ZD\* - Straight Solder Termination (Stamped)**

See pages 8-9.

ZD\* straight connectors are available for applications where price is the primary driver. They are available with or without boardlocks and screw locks.

**Product Features**

Stamped contacts with 5 A current capacity  
 Economical  
 Optional vertical standoffs with optional harpoon style boardlocks or screw locks

**D\* - Straight Solder Termination (Machined) — European PC Tails**

See pages 10-11.

D\* straight connectors are available for high performance uses according to DIN 41652. Available with European length OL contacts.

Select contact finish from 2 performance classes.

**Product Features**

High performance commercial connectors  
 Two contact finish performance classes  
 Optional vertical standoffs, threaded inserts and pushfits/boardlocks  
 OL2 contact length, other lengths available  
 Tin plated contact PC tails (pin & socket)  
 Machined contacts

**D\* - Wrap Post Termination**

See pages 12-13.

D\* straight connectors are available for high performance uses according to DIN 41652. Contacts available in two popular lengths.

**Product Features**

High performance commercial class connectors  
 Two contact lengths for 2 or 3 wraps  
 Machined contacts

**Specifications**

Current Rating	5 A / 25°C, 3.5 A / 70°C ambient
Temperature Rating	-55°C to 125°C
Contact Resistance	10 mΩ
Test Voltage	1200 Vrms at Sea Level
∅ Plated Through Hole	1,09 - 0,94 (.043 - .037)
PC Tail Press-in Force	100N/contact max.
PC Tail Push-out Force	30N/contact min.
PC Board Thickness	3,20 - 1,60 (.125 - .062)

**Materials and Finishes**

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (color: black)
Contact	Copper Alloy	Gold over Nickel (Standard) or Gold over PdNi (-408)
Hardware	Steel/Copper Alloy	Tin/Zinc

**Specifications**

Temperature Rating	-55°C to 125°C
Current Rating	7.5 A
Contact Resistance	55 millivolt max at 7.5 A test current
Dielectric Withstanding Voltage	1000 VAC at Sea Level

**Materials and Finishes**

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (color: dark green)
Contact	Copper Alloy	Gold over Nickel. Terminating end Tin (Socket only)
Hardware	Steel/Copper Alloy	Tin/Zinc

**Specifications**

Temperature Rating	-55°C to 105°C
Current Rating	5 A
Contact Resistance	15 mΩ
Dielectric Withstanding Voltage	1000 VAC at Sea Level

**Materials and Finishes**

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94-0	None (color: black)
Contacts	Copper Alloy	Gold over Nickel
Hardware	Steel/Copper Alloy	Tin/Zinc

**Specifications**

Temperature Rating	-55°C to 125°C
Current Rating	5 A
Contact Resistance	10 mΩ
Dielectric Withstanding Voltage	1250 VAC at Sea Level

**Materials and Finishes**

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (color: dark green)
Contacts	Copper Alloy	Gold over Nickel in mating area, Tin on balance
Hardware	Steel/Copper Alloy	Tin/Zinc

**Specifications**

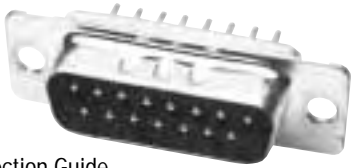
Temperature Rating	-55°C to 125°C
Current Rating	5 A
Contact Resistance	10 mΩ
Dielectric Withstanding Voltage	1250 VAC at Sea Level

**Materials and Finishes**

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None (color: dark green)
Contact	Socket: Copper Alloy	Gold over Nickel. Terminating end Tin (Socket)
Hardware	Steel/Copper Alloy	Tin/Zinc

Straight Solder Termination (Machined) — European PC Tails

Plug



Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Reader's Resource

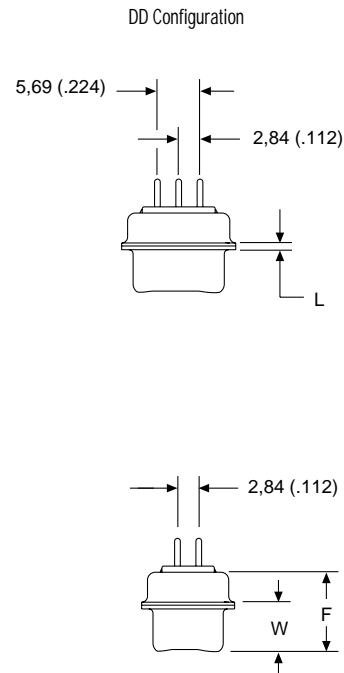
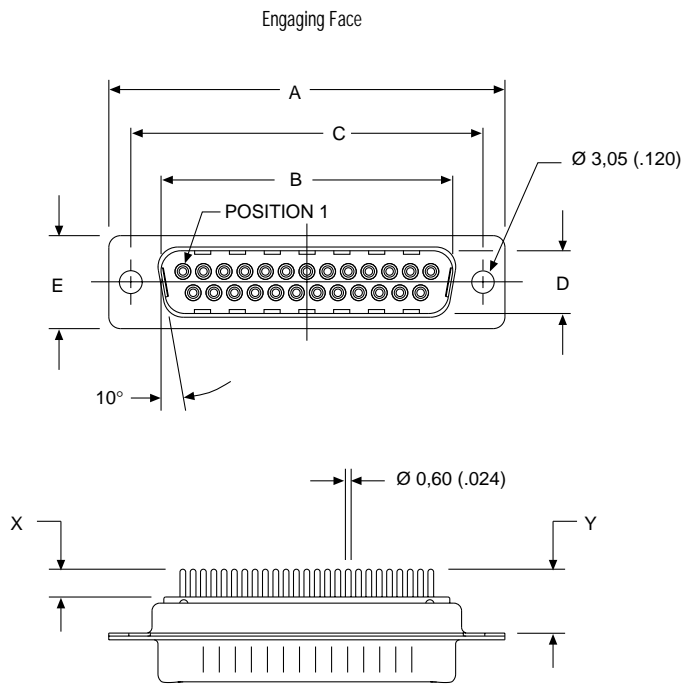
For contact cavity arrangements, see page 224.  
 For P.C. hole patterns, see page 274.  
 For panel cutouts, see page 221.  
 For hardware views (European), see page 227.

Part Numbers

Shell Size	Layout	Through Hole	Standoff #4-40 UNC With Pushfit/Boardlock	Standoff M3 With Pushfit/Boardlock
DE	9	DE9P-OL2-K87	DEE9P-OL2-K87-146	DEX9P-OL2-K87-146
DA	15	DA15P-OL2-K87	DAE15P-OL2-K87-146	DAX15P-OL2-K87-146
DB	25	DB25P-OL2-K87	DBE25P-OL2-K87-146	DBX25P-OL2-K87-146
DC	37	DC37P-OL2-K87	DCE37P-OL2-K87-146	DCX37P-OL2-K87-146
DD	50	DD50P-OL2-K87	DDE50P-OL2-K87-146	DDX50P-OL2-K87-146

Note: For performance class 2 add -A191. Example DA15P-OL2-A191-K87.

PC Tail Modifier	X ±0,30 (.012)	Y ±0,30 (.012)
OL2	5,20 (.205)	10,20 (.401)
OL4	6,75 (.266)	11,80 (.465)

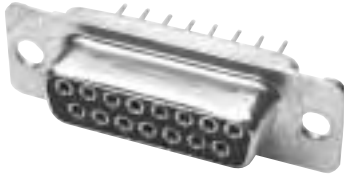


Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,368 (.0145)	W ±0,41 (.016)	L ±0,25 (.010)
DE	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DA	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,693 (.2635)	—	0,76 (.030)
DB	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DC	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)
DD	66,93 (2.635)	52,81 (2.079)	61,11 (2.406)	11,07 (.436)	15,37 (.605)	10,82 (.426)	—	6,84 (.269)	0,99 (.039)

## Straight Solder Termination (Machined) — European PC Tails

### Receptacle



### Part Numbers

Shell Size	Layout	Through Hole	Standoff #4-40 UNC With Pushfit/Boardlock	Standoff M3 With Pushfit/Boardlock
DE	9	DE9S-OL2-A197	DEE9S-OL2-A197-146	DEX9S-OL2-A197-146
DA	15	DA15S-OL2-A197	DAE15S-OL2-A197-146	DAX15S-OL2-A197-146
DB	25	DB25S-OL2-A197	DBE25S-OL2-A197-146	DBX25S-OL2-A197-146
DC	37	DC37S-OL2-A197	DCE37S-OL2-A197-146	DCX37S-OL2-A197-146
DD	50	DD50S-OL2-A197	DDE50S-OL2-A197-146	DDX50S-OL2-A197-146

### Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Note: For performance class 2 add -A191. Example DA15S-OL2-A191-A197

### Reader's Resource

For contact cavity arrangements, see page 224.

For P.C. hole patterns, see page 274.

For panel cutouts, see page 221.

For hardware views (European), see page 227.

PC Tail Modifier	X ±0,30 (.012)	Y ±0,30 (.012)
OL2	5,20 (.205)	10,20 (.401)
OL4	6,75 (.266)	11,80 (.465)



### Dimensions

Shell Size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	W ±0,38 (.015)	L ±0,25 (.010)
DE	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DA	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DB	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DC	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,94 (.273)	0,76 (.030)
DD	66,93 (2.635)	52,42 (2.064)	61,11 (2.406)	10,74 (.423)	15,37 (.605)	10,90 (.429)	6,94 (.273)	0,76 (.030)