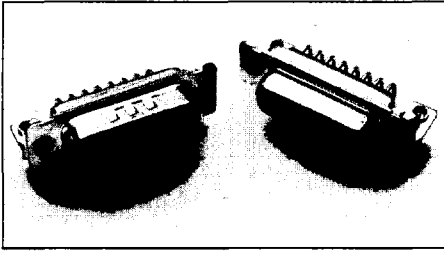


D*M — 90° Solder Termination (Machined) — Standard Footprint .318♦ or .283 inch♦♦



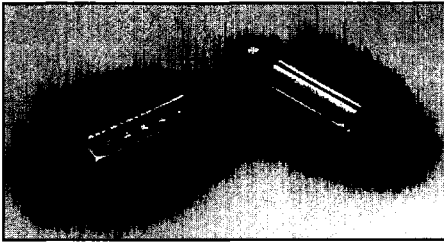
See pages 16-17.

D*M 90° PCB connectors, equivalent to MIL-C-24308 qualified versions (except for finishes), for use with printed circuit boards in demanding applications. Additional contact lengths, hardware and finish options available; consult factory for details.

Product Features

- ✦ 7.5 A current capacity
- ✦ Machined contacts
- ✦ Two contact finishes
- ✦ Metal bracket with threaded insert standard
- ✦ Optional screw locks and boardlocks
- ✦ UL file number E8572
- ✦ Dimensionally compatible with Combo D*

ZED* — 90° Solder Termination (Stamped) — Standard Footprint .318 inch♦



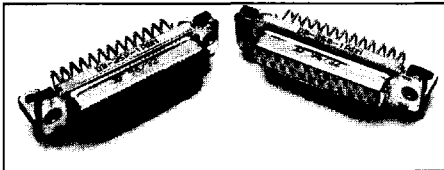
See pages 18-19.

ZED* 90° connectors are available for applications where price is the primary driver. They are available with integrated plastic brackets with Standard footprints.

Product Features

- ✦ Stamped contacts with 5 A current capacity
- ✦ Economical
- ✦ Plastic bracket with integrated boardlocks and grounding strap
- ✦ Optional screw locks

D* — 90° Solder Termination (Machined) — European Footprint 10,2♦ or 9,4 mm♦♦



See pages 20-27.

D* 90° connectors are available for high performance uses according to DIN 41652. Available with European footprint 1AON contacts, plastic and metal brackets, #4-40 or M3 threads and stamped pushfits/boardlocks. Contact finish available in 2 performance classes.

Product Features

- ✦ High performance commercial class connectors
- ✦ Two contact performance classes
- ✦ Optional metal and plastic brackets, threaded standoffs, clinch nuts, and stamped pushfits/boardlocks
- ✦ Tin plated contact PC tails (pin & socket)

ZD* — 90° Solder Termination (Stamped) — European Footprint 10,2 mm♦



See pages 28-29.

ZD* 90° connectors are available for applications where price is the primary driver. They are available with integrated plastic brackets with European footprints.

Product Features

- ✦ Stamped contacts with 5 A current capacity
- ✦ Economical
- ✦ Plastic bracket with integrated boardlocks and grounding strap
- ✦ Optional screw locks

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

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)
Pin Contact	Copper Alloy	Gold over Nickel
Socket Contact	Copper Alloy	Gold over Nickel in mating area, Tin on balance
Hardware (except Boardlocks)	Steel	Tin
Boardlocks	Copper Alloy	Tin

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 94V-0	None
Contacts	Copper Alloy	Gold over Nickel in mating area, Tin on balance

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 or Plastic	Tin or None
Boardlocks	Copper Alloy	Tin

Specifications

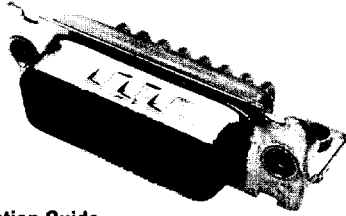
Temperature Rating	-55°C to 105°C
Current Rating	5 A
Contact Resistance	15 mΩ
Dielectric Withstanding Voltage	1000 VAC at Sea Level

Materials and Finishes

Description	Material	Finish
Shell	Steel	Tin
Insulator	Thermoplastic, UL 94V-0	None
Contacts	Copper Alloy	Gold over Nickel in mating area, Tin on balance

90° Solder Termination (Machined) — Standard Footprint .318♦ or .283 inch♦♦

Plug



Selection Guide

* For Product Features, Specifications, Materials and Finishes, see pages 14-15.

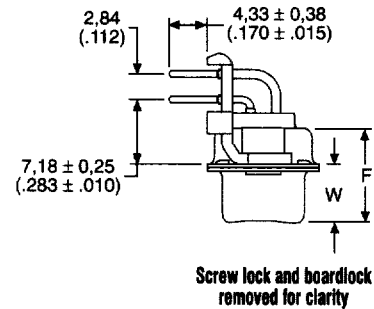
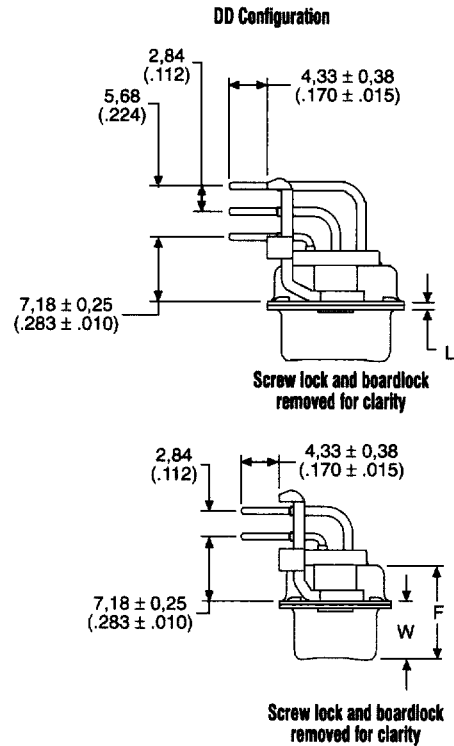
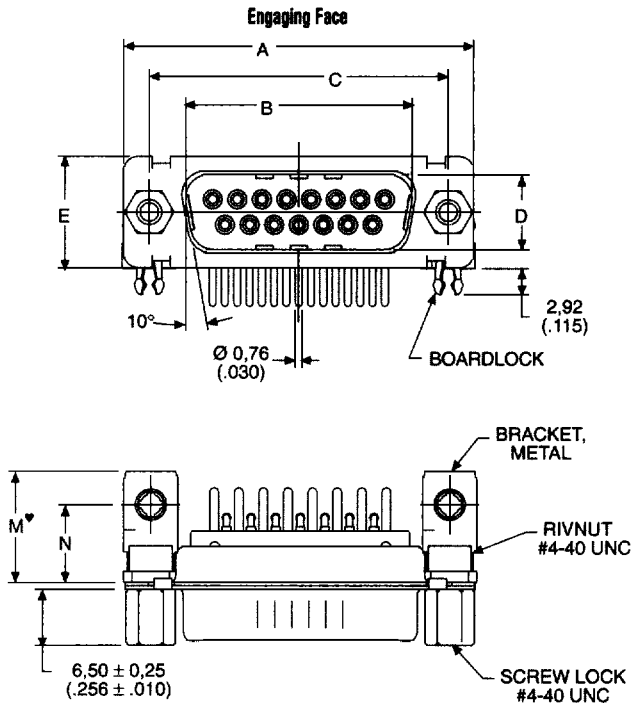
Reader's Resource

- * For contact cavity arrangements, see page 224.
- * For P.C. hole patterns, see page 272.
- * For panel cutouts, see page 221.
- * For hardware views (Standard), see page 226.
- * For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.

Part Numbers

Shell Size	Layout	Bracket	Bracket & Boardlock	Bracket & Screw Lock #4-40 UNC	Bracket, Boardlock & Screw Lock #4-40 UNC
DE	9	DEMP9PJK87	DEMCP9PJK87	DEMD9PJK87	DEMG9PJK87
DA	15	DAMP15PJK87	DAMC15PJK87	DAMD15PJK87	DAMG15PJK87
DB	25	DBMP25PJK87	DBMC25PJK87	DBMD25PJK87	DBMG25PJK87
DC	37	DCMP37PJK87	DCMC37PJK87	DCMD37PJK87	DCMG37PJK87
DD	50	DDMP50PJK87	DDMC50PJK87	DDMD50PJK87	DDMG50PJK87

Note: For contacts with 30 microinches gold substitute K127 for K87. Example: DAMG15PJK127



Note: ♥ Dimension varies with alternate bracket configuration. See Reader's Resource page 226.

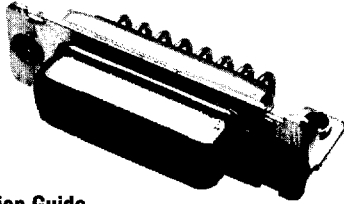
Dimensions

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)	M ±0,25 (.010)	N ±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)	12,34 (.486)	8,64 (.340)
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)	12,34 (.486)	8,64 (.340)
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)	12,34 (.486)	8,64 (.340)
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)	12,34 (.486)	8,64 (.340)
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)	13,74 (.541)	10,06 (.396)

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Machined) — Standard Footprint .318♦ or .283 inch♦♦

Receptacle



Part Numbers

Shell Size	Layout	Bracket	Bracket & Boardlock	Bracket & Screw Lock #4-40 UNC	Bracket, Boardlock & Screw Lock #4-40 UNC
DE	9	DEMP9SJA197	DEMC9SJA197	DEMD9SJA197	DEMG9SJA197
DA	15	DAMP15SJA197	DAMC15SJA197	DAMD15SJA197	DAMG15SJA197
DB	25	DBMP25SJA197	DBMC25SJA197	DBMD25SJA197	DBMG25SJA197
DC	37	DCMP37SJA197	DCMC37SJA197	DCMD37SJA197	DCMG37SJA197
DD	50	DDMP50SJA197	DDMC50SJA197	DDMD50SJA197	DDMG50SJA197

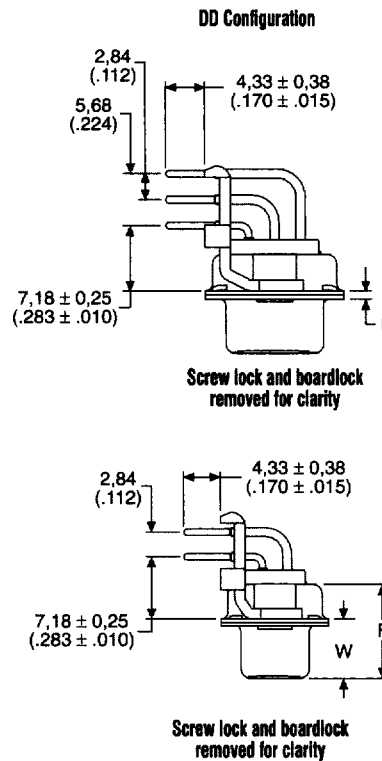
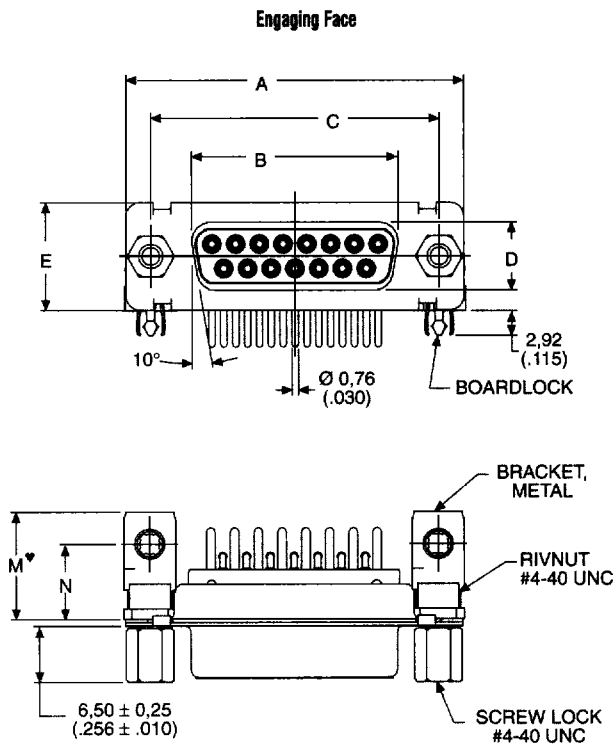
Note: For contacts with 30 microinches gold substitute K126 for A197. Example: DAMG15SJ126

Selection Guide

- For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource

- For contact cavity arrangements, see page 224.
- For P.C. hole patterns, see page 272.
- For panel cutouts, see page 221.
- For hardware views (Standard), see page 226.
- For alternate bracket configuration (when connectors are supplied without boardlocks), see page 226.



Note: ♥ Dimension varies with alternate bracket configuration. See Reader's Resource page 226.

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)	M ±0,25 (.010)	N ±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)	12,34 (.486)	8,64 (.340)
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)	12,34 (.486)	8,64 (.340)
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)	12,34 (.486)	8,64 (.340)
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)	12,34 (.486)	8,64 (.340)
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)	13,74 (.541)	10,06 (.396)

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Stamped) — Standard Footprint .318 inch

Plug



Selection Guide

- For Product Features, Specifications, Materials and Finishes, see pages 14-15.

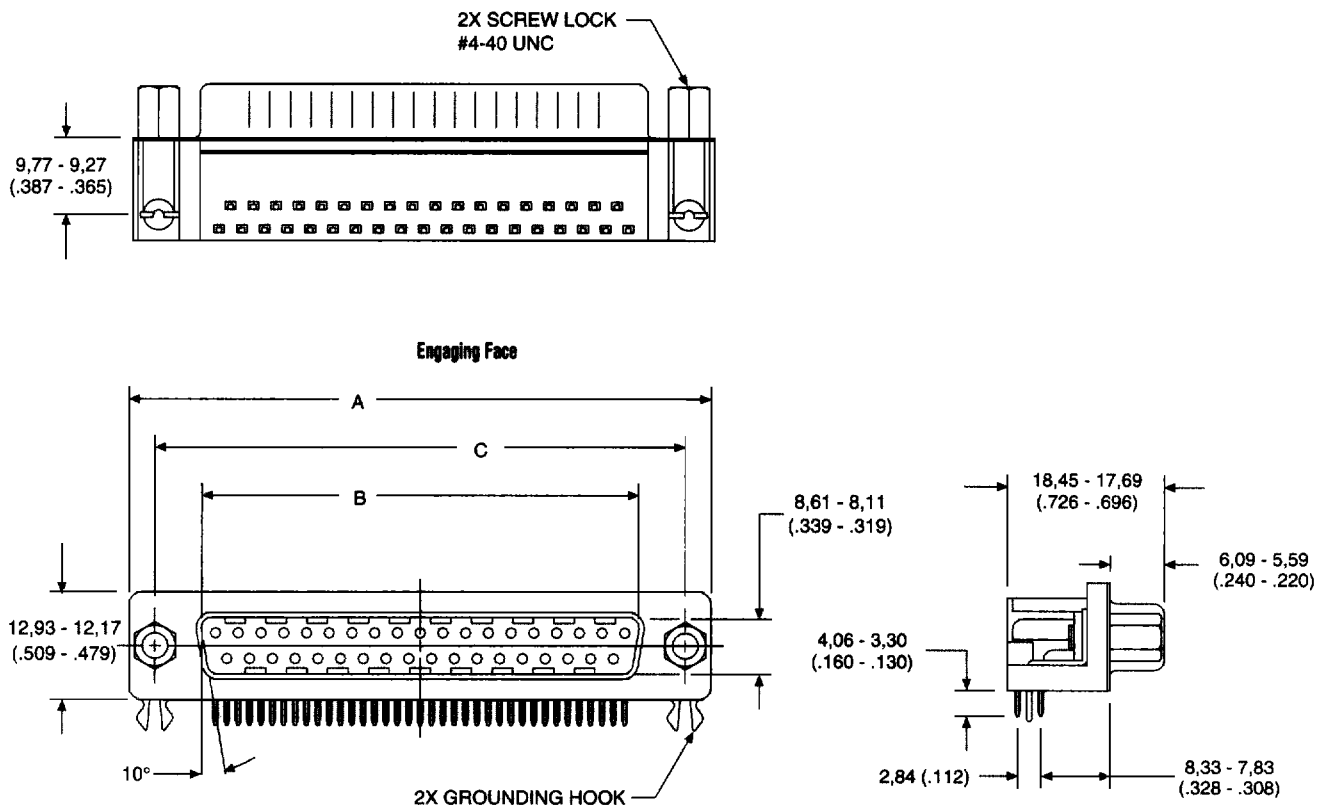
Reader's Resource

- For contact cavity arrangements, see page 224.
- For P.C. hole patterns, see page 272.
- For panel cutouts, see page 221.
- For hardware views (Standard), see page 226.

Part Numbers

Shell Size	Layout	Plastic Bracket, Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC	Plastic Bracket, Integrated Grounding Strap, Boardlock, Screw Lock #4-40 UNC
DE	9	ZEDEL9PBA	ZEDE9PBA
DA	15	ZEDAL15PBA	ZEDA15PBA
DB	25	ZEDBL25PBA	ZEDB25PBA
DC	37	ZEDCL37PBA	ZEDC37PBA

Note: For contacts with 30 microinches of gold add -30. Example: ZEDEL9PBA-30

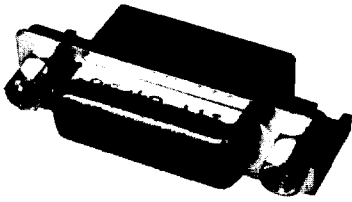


Dimensions

Shell Size	A ±0,38 (.015)	B ±0,25 (.010)	C ±0,25 (.010)
DE	30,89 (1.216)	16,92 (.666)	24,99 (.984)
DA	39,09 (1.539)	25,25 (.994)	33,32 (1.312)
DB	53,09 (2.090)	38,96 (1.534)	47,04 (1.852)
DC	69,40 (2.732)	55,42 (2.182)	63,50 (2.500)

90° Solder Termination (Stamped) — Standard Footprint .318 inch

Receptacle



Part Numbers

Shell Size	Layout	Plastic Bracket, Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC	Plastic Bracket, Integrated Grounding Strap, Boardlock, Screw Lock #4-40 UNC
DE	9	ZEDEL9SBA	ZEDE9SBA
DA	15	ZEDAL15SBA	ZEDA15SBA
DB	25	ZEDBL25SBA	ZEDB25SBA
DC	37	ZEDCL37SBA	ZEDC37SBA

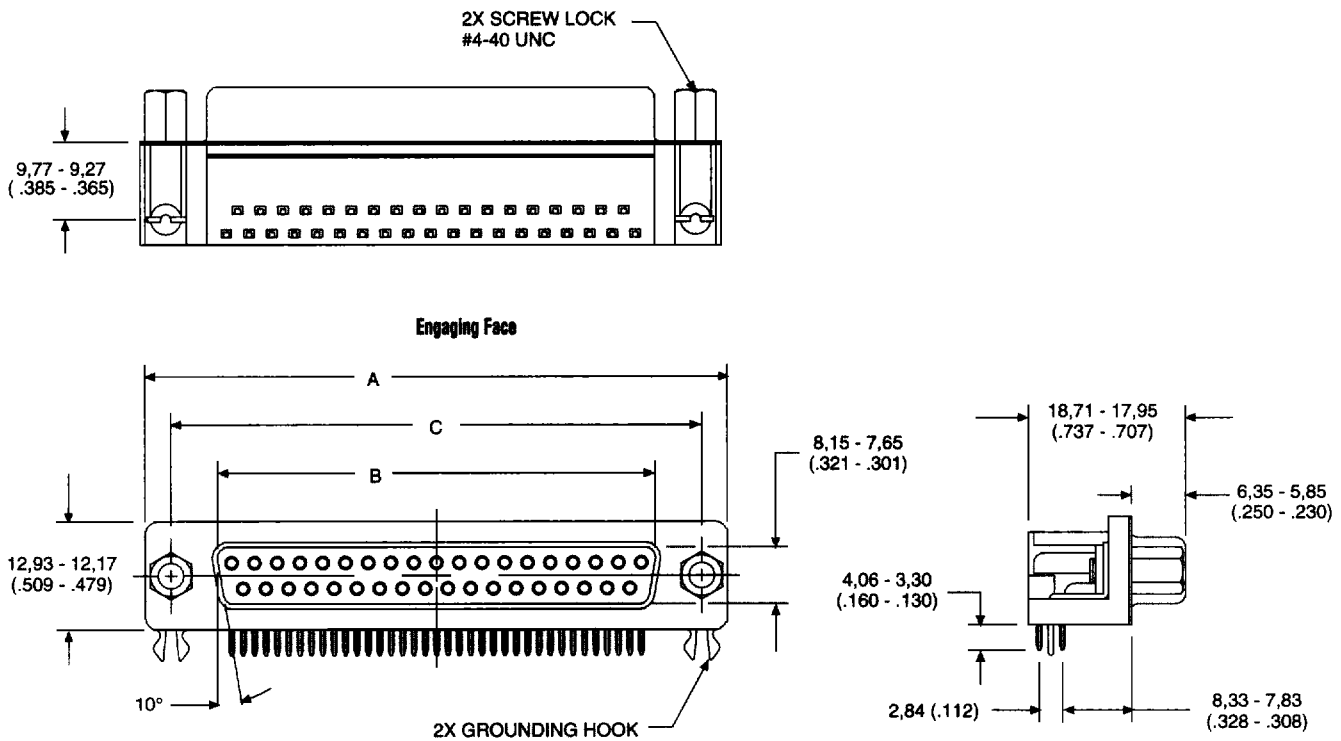
Note: For contacts with 30 microinches gold add -30. Example: ZEDEL9SBA-30

Selection Guide

- For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource

- For contact cavity arrangements, see page 224.
- For P.C. hole patterns, see page 272.
- For panel cutouts, see page 221.
- For hardware views (Standard), see page 226.

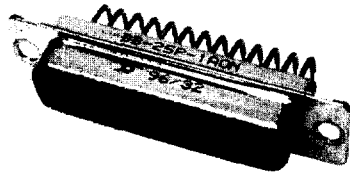


Dimensions

Shell Size	A ±0,38 (.015)	B ±0,25 (.010)	C ±0,25 (.010)
DE	30,89 (1.216)	16,28 (.641)	24,99 (.984)
DA	39,09 (1.539)	24,66 (.971)	33,32 (1.312)
DB	53,09 (2.090)	38,38 (1.511)	47,04 (1.852)
DC	69,40 (2.732)	54,84 (2.159)	63,50 (2.500)

90° Solder Termination (Machined) — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



Part Numbers

Shell Size	Layout	Through Hole
DE	9	DE9P-1AON-K87
DA	15	DA15P-1AON-K87
DB	25	DB25P-1AON-K87
DC	37	DC37P-1AON-K87
DD	50	DD50P-1AON-K87

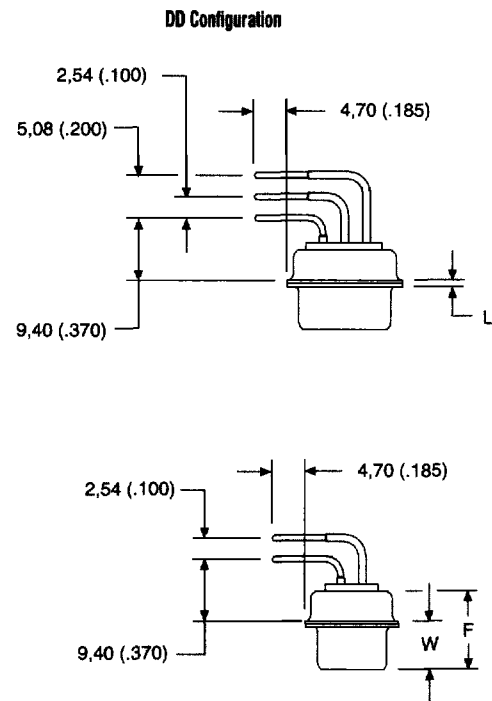
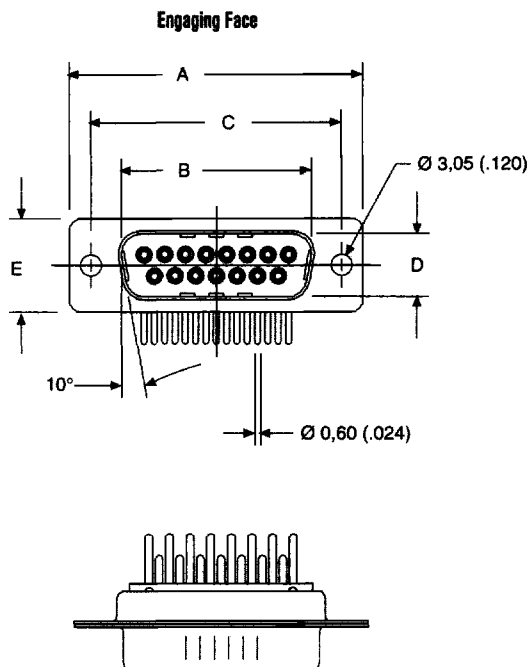
Note: For performance class 2 add -A191. Example: DE9P-1AON-A191-K87

Selection Guide

- ✦ For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource

- ✦ For contact cavity arrangements, see page 224.
- ✦ For P.C. hole patterns, see page 273.
- ✦ For panel cutouts, see page 221.
- ✦ For hardware views (European), see page 227.



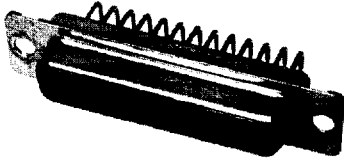
Dimensions

Shell Size	A $\pm 0,38 (.015)$	B $\pm 0,13 (.005)$	C $\pm 0,13 (.005)$	D $\pm 0,13 (.005)$	E $\pm 0,38 (.015)$	F $\pm 0,25 (.010)$	W $\pm 0,368 (.0145)$	W $\pm 0,41 (.016)$	L $\pm 0,25 (.010)$
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)

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Machined) — European Footprint 10,2♦ or 9,4 mm♦♦

Receptacle



Part Numbers

Shell Size	Layout	Through Hole
DE	9	DE9S-1AON-A197
DA	15	DA15S-1AON-A197
DB	25	DB25S-1AON-A197
DC	37	DC37S-1AON-A197
DD	50	DD50S-1AON-A197

Note: For performance class 2 add -A191. Example: DE9S-1AON-A191-A197

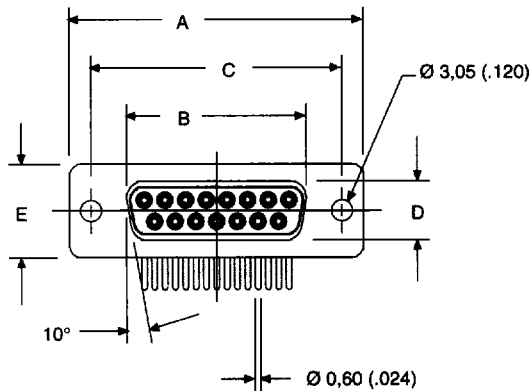
Selection Guide

- * For Product Features, Specifications, Materials and Finishes, see pages 14-15.

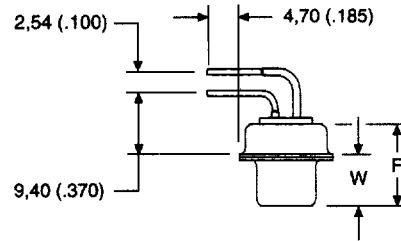
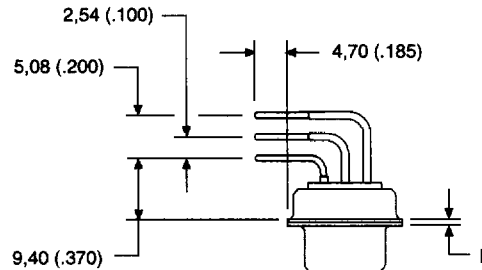
Reader's Resource

- * For contact cavity arrangements, see page 224.
- * For P.C. hole patterns, see page 273.
- * For panel cutouts, see page 221.
- * For hardware views (European), see page 227.

Engaging Face



DD Configuration



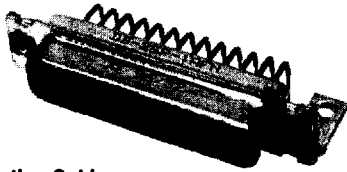
Dimensions

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)

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Machined) with Metal Bracket — European Footprint 10,2♦ or 9,4♦♦ mm

Plug



Selection Guide

* For Product Features, Specifications, Materials and Finishes, see pages 14-15.

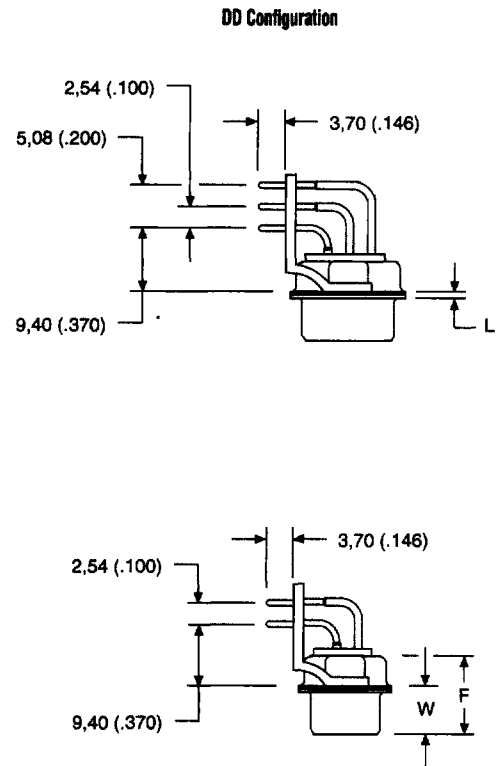
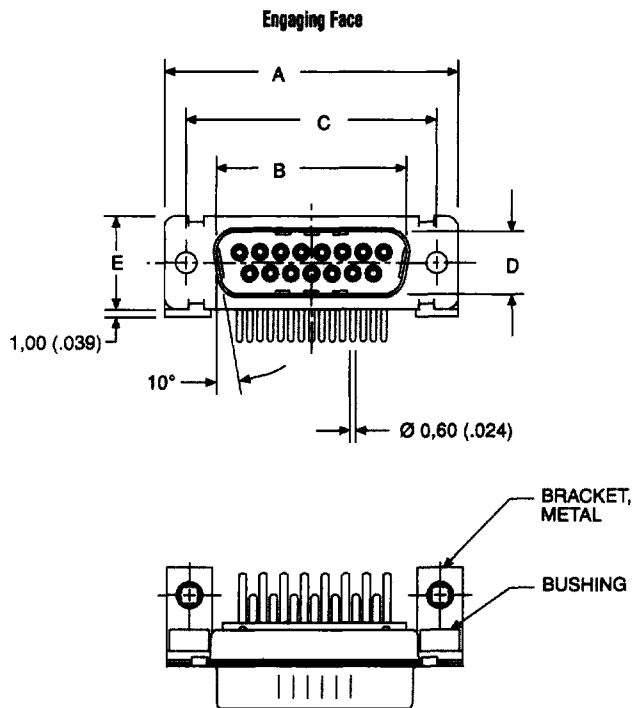
Reader's Resource

- * For contact cavity arrangements, see page 224.
- * For P.C. hole patterns, see page 273.
- * For panel cutouts, see page 221.
- * For hardware views (European), see page 227.

Part Numbers

Shell Size	Layout	Bushing with Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC
DE	9	DE9P-1AFN-K87	DE9P-1A7N-K87	DE9P-1A9N-K87	DE9P-1A8N-K87
DA	15	DA15P-1AFN-K87	DA15P-1A7N-K87	DA15P-1A9N-K87	DA15P-1A8N-K87
DB	25	DB25P-1AFN-K87	DB25P-1A7N-K87	DB25P-1A9N-K87	DB25P-1A8N-K87
DC	37	DC37P-1AFN-K87	DC37P-1A7N-K87	DC37P-1A9N-K87	DC37P-1A8N-K87
DD	50	DD50P-1AFN-K87	DD50P-1A7N-K87	DD50P-1A9N-K87	DD50P-1A8N-K87

Notes: For pushfit/boardlock option add -146. Example: DE9P-1AFN-K87-146
 For performance class 2 add -A191. Example: DE9P-1AFN-A191-K87



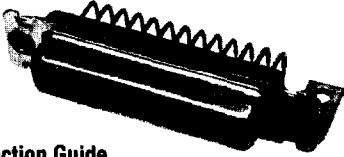
Dimensions

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)

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Machined) with Metal Bracket — European Footprint 10,2♦ or 9,4♦♦ mm

Receptacle



Selection Guide

- For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource

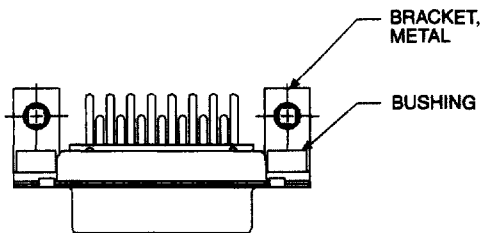
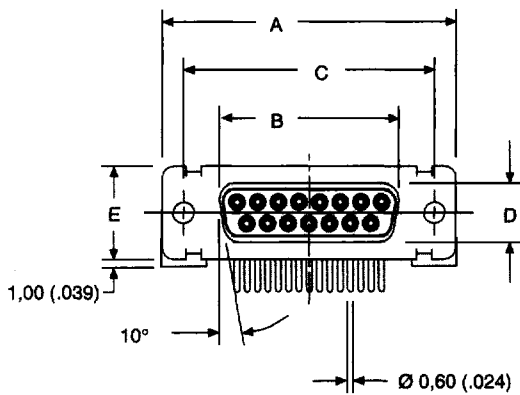
- For contact cavity arrangements, see page 224.
- For P.C. hole patterns, see page 273.
- For panel cutouts, see page 221.
- For hardware views (European), see page 227.

Part Numbers

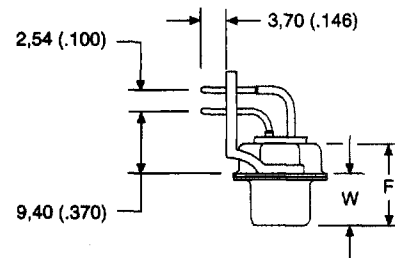
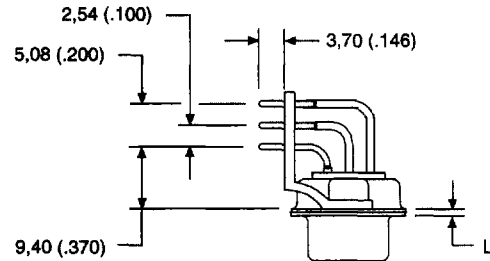
Shell Size	Layout	Bushing with Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC
DE	9	DE9S-1AFN-A197	DE9S-1A7N-A197	DE9S-1A9N-A197	DE9S-1A8N-A197
DA	15	DA15S-1AFN-A197	DA15S-1A7N-A197	DA15S-1A9N-A197	DA15S-1A8N-A197
DB	25	DB25S-1AFN-A197	DB25S-1A7N-A197	DB25S-1A9N-A197	DB25S-1A8N-A197
DC	37	DC37S-1AFN-A197	DC37S-1A7N-A197	DC37S-1A9N-A197	DC37S-1A8N-A197
DD	50	DD50S-1AFN-A197	DD50S-1A7N-A197	DD50S-1A9N-A197	DD50S-1A8N-A197

Notes: For pushfit/boardlock option add -146. Example: DE9S-1AFN-A197-146
For performance class 2 add -A191. Example: DE9S-1AFN-A191-A197

Engaging Face



DD Configuration



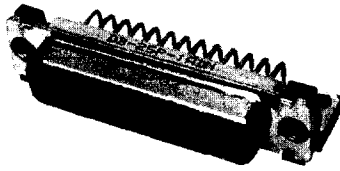
Dimensions

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)

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Machined) with Plastic Bracket and Grounding Strap — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



Part Numbers

Shell Size	Layout	Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC
DE	9	DE9P-1ADN-K87	DE9P-1AWN-K87	DE9P-1AVN-K87	DE9P-1AJN-K87
DA	15	DA15P-1ADN-K87	DA15P-1AWN-K87	DA15P-1AVN-K87	DA15P-1AJN-K87
DB	25	DB25P-1ADN-K87	DB25P-1AWN-K87	DB25P-1AVN-K87	DB25P-1AJN-K87
DC	37	DC37P-1ADN-K87	DC37P-1AWN-K87	DC37P-1AVN-K87	DC37P-1AJN-K87
DD	50	DD50P-1ADN-K87	DD50P-1AWN-K87	DD50P-1AVN-K87	DD50P-1AJN-K87

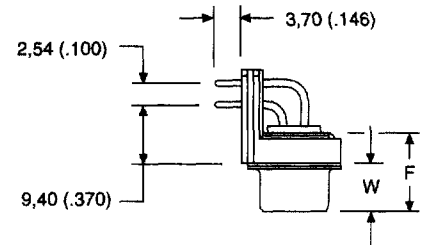
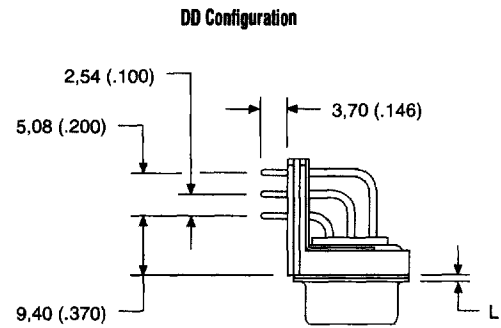
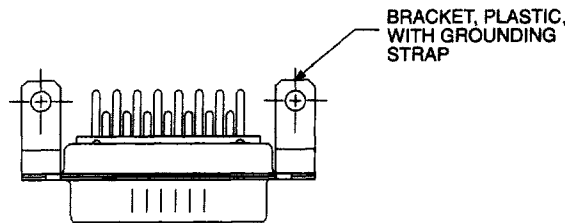
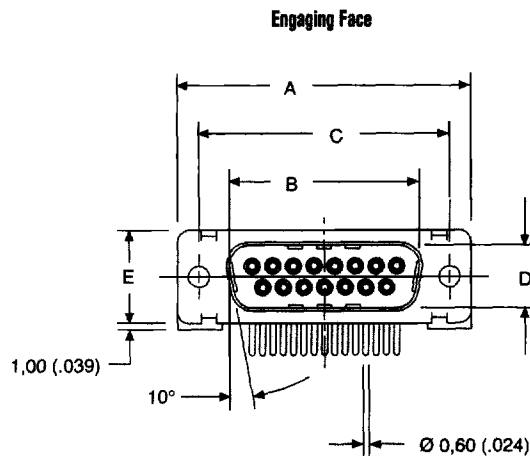
Notes: For pushfit/boardlock option add -146. Example: DE9P-1ADN-K87-146
For performance class 2 add -A191. Example: DE9P-1ADN-A191-K87

Selection Guide

- ⇒ For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource

- ⇒ For contact cavity arrangements, see page 224.
- ⇒ For P.C. hole patterns, see page 223.
- ⇒ For panel cutouts, see page 221.
- ⇒ For hardware views (European), see page 227.



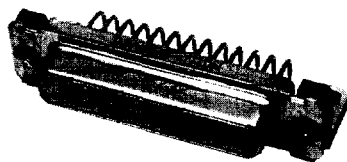
Dimensions

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)

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Machined) with Plastic Bracket and Grounding Strap — European Footprint 10,2♦ or 9,4 mm♦♦

Receptacle



Part Numbers

Shell Size	Layout	Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC
DE	9	DE9S-1ADN-A197	DE9S-1AWN-A197	DE9S-1AVN-A197	DE9S-1AJN-A197
DA	15	DA15S-1ADN-A197	DA15S-1AWN-A197	DA15S-1AVN-A197	DA15S-1AJN-A197
DB	25	DB25S-1ADN-A197	DB25S-1AWN-A197	DB25S-1AVN-A197	DB25S-1AJN-A197
DC	37	DC37S-1ADN-A197	DC37S-1AWN-A197	DC37S-1AVN-A197	DC37S-1AJN-A197
DD	50	DD50S-1ADN-A197	DD50S-1AWN-A197	DD50S-1AVN-A197	DD50S-1AJN-A197

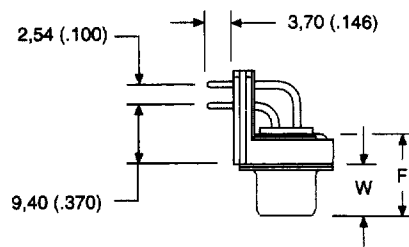
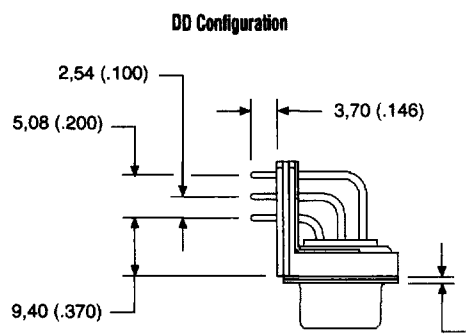
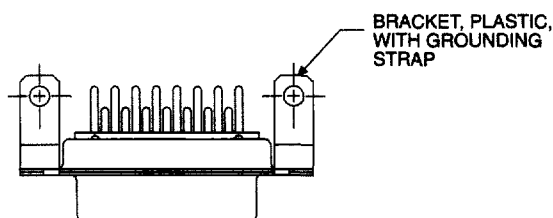
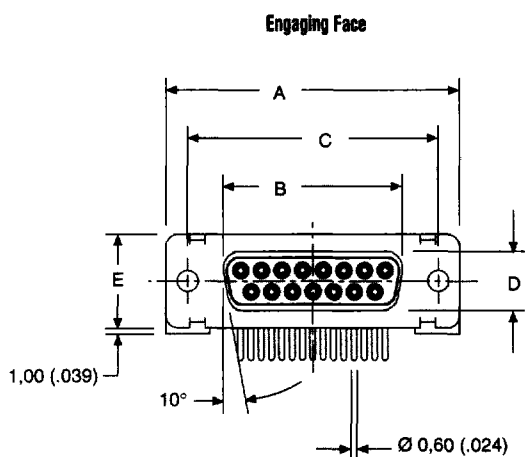
Notes: For pushfit/boardlock option add -146. Example: DE9S-1ADN-A197-146
 For performance class 2 add -A191. Example: DE9S-1ADN-A191-A197

Selection Guide

- * For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource

- * For contact cavity arrangements, see page 224.
- * For P.C. hole patterns, see page 273.
- * For panel cutouts, see page 221.
- * For hardware views (European), see page 227.



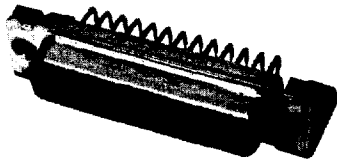
Dimensions

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)

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Machined) with Plastic Bracket — European Footprint 10,2♦ or 9,4 mm♦♦

Plug



Part Numbers

Shell Size	Layout	Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC
DE	9	DE9P-1A5N-K87	DE9P-1AUN-K87	DE9P-1ATN-K87	DE9P-1A6N-K87
DA	15	DA15P-1A5N-K87	DA15P-1AUN-K87	DA15P-1ATN-K87	DA15P-1A6N-K87
DB	25	DB25P-1A5N-K87	DB25P-1AUN-K87	DB25P-1ATN-K87	DB25P-1A6N-K87
DC	37	DC37P-1A5N-K87	DC37P-1AUN-K87	DC37P-1ATN-K87	DC37P-1A6N-K87
DD	50	DD50P-1A5N-K87	DD50P-1AUN-K87	DD50P-1ATN-K87	DD50P-1A6N-K87

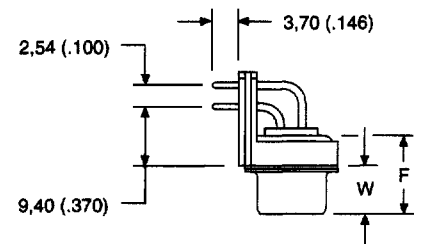
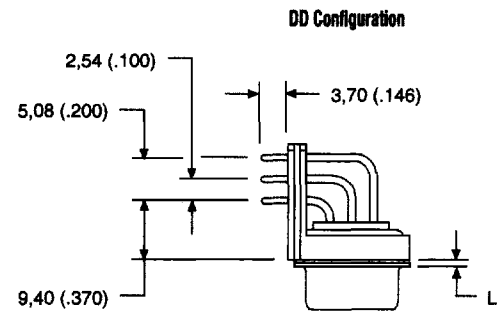
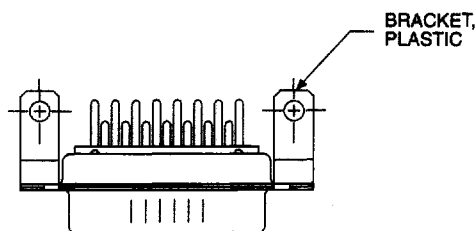
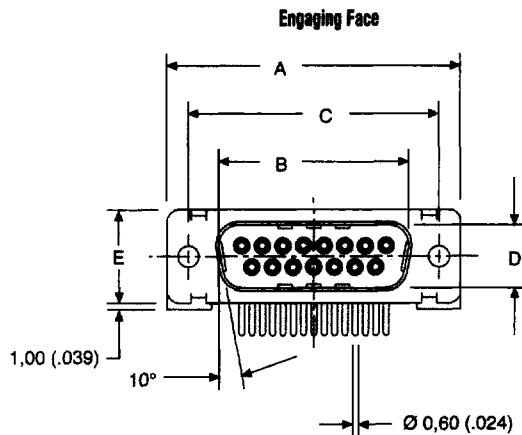
Notes: For pushfit/boardlock option add -146. Example: DE9P-1A5N-K87-146
For performance class 2 add -A191. Example: DE9P-1A5N-A191-K87

Selection Guide

- ✦ For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Reader's Resource

- ⇒ For contact cavity arrangements, see page 224.
- ✦ For P.C. hole patterns, see page 273.
- ✦ For panel cutouts, see page 221.
- ✦ For hardware views (European), see page 227.



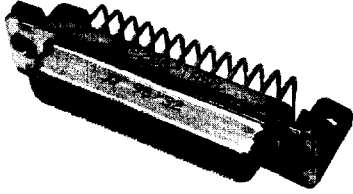
Dimensions

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 (.145)	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)

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Machined) with Plastic Bracket — European Footprint 10,2♦ or 9,4 mm♦♦

Receptacle



Part Numbers

Shell Size	Layout	Through Hole	Captive Nut #4-40 UNC	Captive Nut M3	Post #4-40 UNC
DE	9	DE9S-1A5N-A197	DE9S-1AUN-A197	DE9S-1ATN-A197	DE9S-1A6N-A197
DA	15	DA15S-1A5N-A197	DA15S-1AUN-A197	DA15S-1ATN-A197	DA15S-1A6N-A197
DB	25	DB25S-1A5N-A197	DB25S-1AUN-A197	DB25S-1ATN-A197	DB25S-1A6N-A197
DC	37	DC37S-1A5N-A197	DC37S-1AUN-A197	DC37S-1ATN-A197	DC37S-1A6N-A197
DD	50	DD50S-1A5N-A197	DD50S-1AUN-A197	DD50S-1ATN-A197	DD50S-1A6N-A197

Notes: For push/boardlock option add -146. Example: DE9S-1A5N-A197-146
For performance class 2 add -A191. Example: DE9S-1A5N-A191-A197

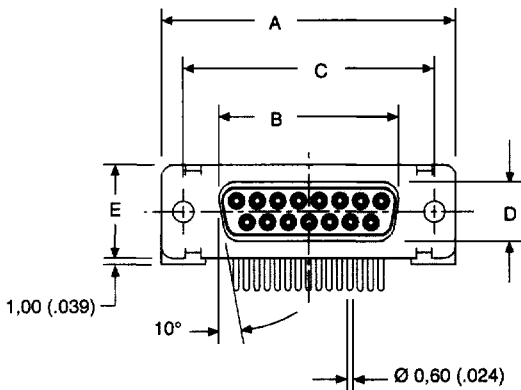
Selection Guide

- For Product Features, Specifications, Materials and Finishes, see pages 14-15.

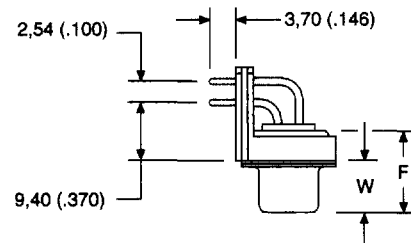
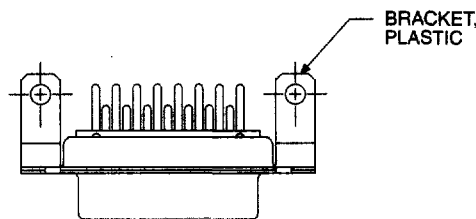
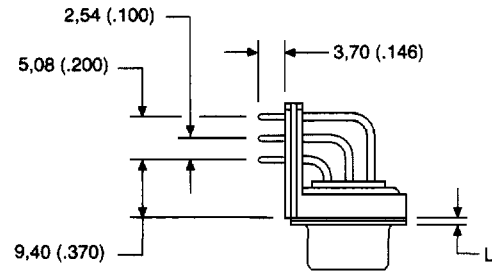
Reader's Resource

- For contact cavity arrangements, see page 224.
- For P.C. hole patterns, see page 273.
- For panel cutouts, see page 221.
- For hardware views (European), see page 227.

Engaging Face



DD Configuration



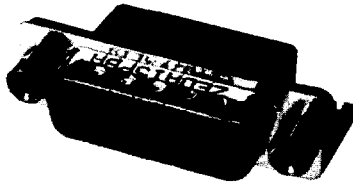
Dimensions

Shell Size	A	B	C	D	E	F	W	L
	±0,38 (.015)	±0,13 (.005)	±0,13 (.005)	±0,13 (.005)	±0,38 (.015)	±0,25 (.010)	±0,38 (.015)	±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)

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Stamped) — European Footprint 10,2 mm

Plug



Selection Guide

* For Product Features, Specifications, Materials and Finishes, see pages 14-15.

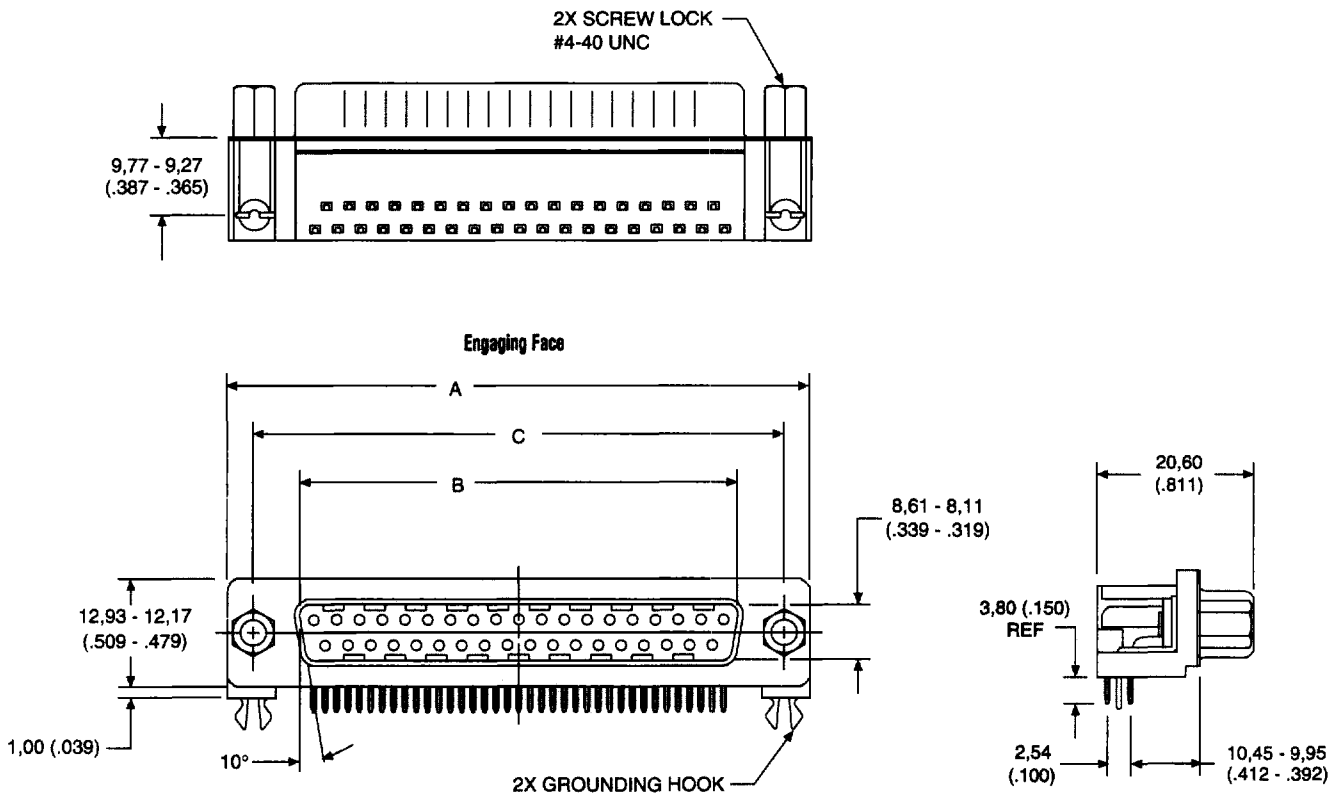
Reader's Resource

- * For contact cavity arrangements, see page 224.
- * For P.C. hole patterns, see page 273.
- * For panel cutouts, see page 221.
- * For hardware views (European), see page 227.

Part Numbers

Shell Size	Layout	Plastic Bracket, Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC	Plastic Bracket, Integrated Grounding Strap, Boardlock, Screw Lock #4-40 UNC
DE	9	ZDEL9P-1AKN-146	ZDE9P-1AKN-146
DA	15	ZDAL15P-1AKN-146	ZDA15P-1AKN-146
DB	25	ZDBL25P-1AKN-146	ZDB25P-1AKN-146
DC	37	ZDCL37P-1AKN-146	ZDC37P-1AKN-146

Note: For contacts with 30 microinches gold add -A191. Example: ZDEL9P-1AKN-A191-146

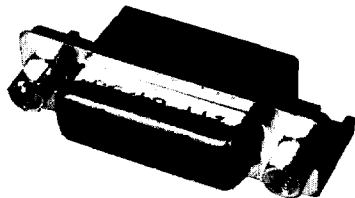


Dimensions

Shell Size	A ±0,38 (.015)	B ±0,25 (.010)	C ±0,13 (.005)
DE	30,89 (1.216)	16,92 (.666)	24,99 (.984)
DA	39,09 (1.539)	25,25 (.994)	33,32 (1.312)
DB	53,09 (2.090)	38,96 (1.534)	47,04 (1.852)
DC	69,40 (2.732)	55,42 (2.182)	63,50 (2.500)

90° Solder Termination (Stamped) — European Footprint 10,2 mm

Receptacle



Selection Guide

* For Product Features, Specifications, Materials and Finishes, see pages 14-15.

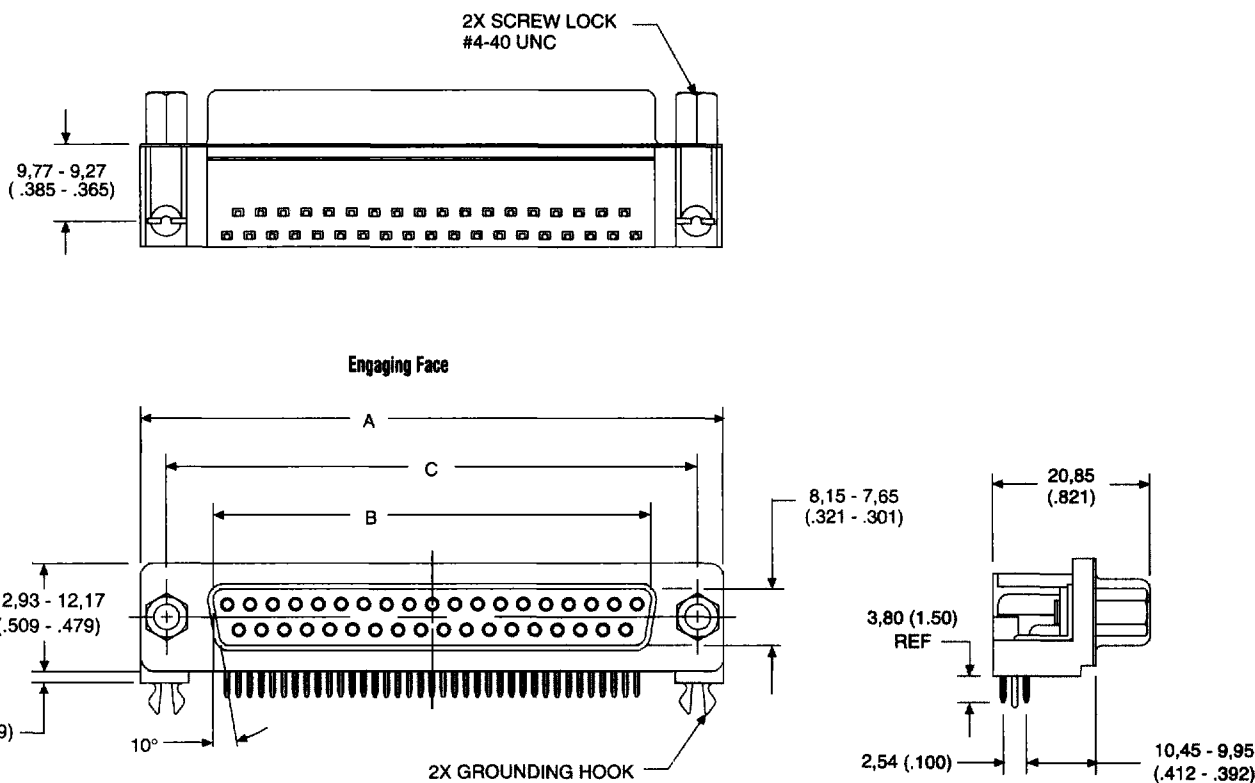
Reader's Resource

- * For contact cavity arrangements, see page 224.
- * For P.C. hole patterns, see page 273.
- * For panel cutouts, see page 221.
- * For hardware views (European), see page 227.

Part Numbers

Shell Size	Layout	Plastic Bracket, Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC	Plastic Bracket, Integrated Grounding Strap, Boardlock, Screw Lock #4-40 UNC
DE	9	ZDEL9S-1AKN-146	ZDE9S-1AKN-146
DA	15	ZDAL15S-1AKN-146	ZDA15S-1AKN-146
DB	25	ZDBL25S-1AKN-146	ZDB25S-1AKN-146
DC	37	ZDCL37S-1AKN-146	ZDC37S-1AKN-146

Note: For contacts with -A191 microinches gold add -A191. Example: ZDEL9S-1AKN-A191-146



Dimensions

Shell Size	A ±0,38 (.015)	B ±0,25 (.010)	C ±0,13 (.005)
DE	30,89 (1.216)	16,33 (.643)	24,99 (.984)
DA	39,09 (1.539)	24,66 (.971)	33,32 (1.312)
DB	53,09 (2.090)	38,38 (1.511)	47,04 (1.852)
DC	69,40 (2.732)	54,84 (2.159)	63,50 (2.500)