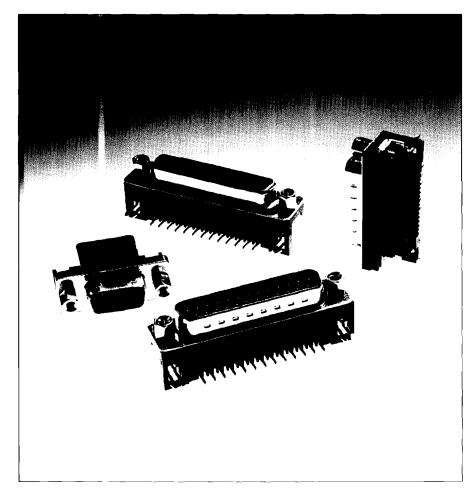
SOURIAU

Delta-D™





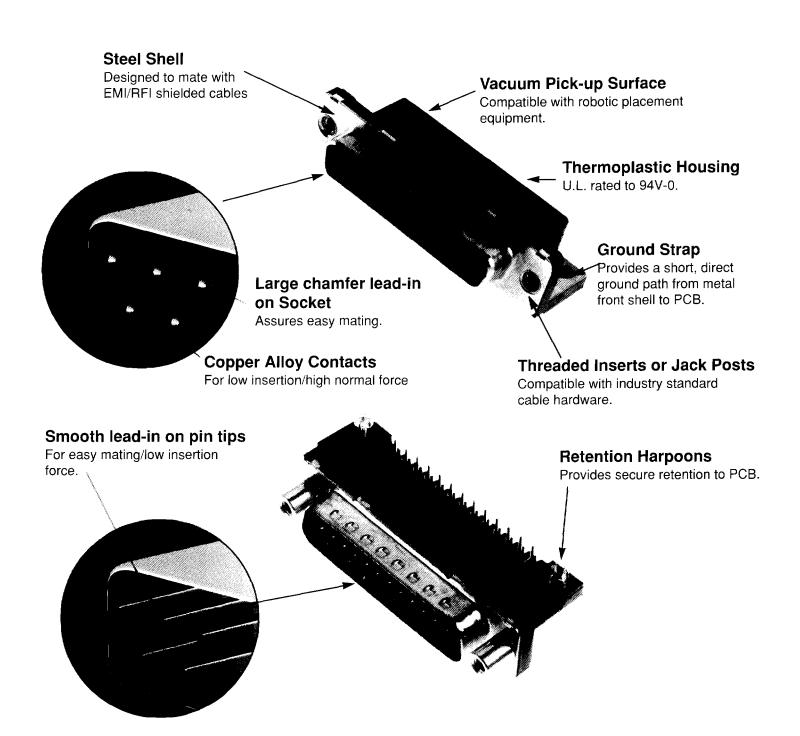
Delta-D Design Features

The Delta-D™ product line is a commercial D-subminiature connector series used in a wide variety of input/output interconnect applications. Delta-D connectors can be found in data processing equipment, data peripherals, telecommunications, instrumentation and industrial controls.

Delta-D offers low cost to users without sacrificing high performance. The thermoplastic housing is UL rated to 94 V-0. Steel shells are designed to mate with EMI/RFI shielded cables. Grounding straps provide a direct ground path from the metal shell to the PCB.

Contacts are stamped from high-strength copper alloy. Contact underplating is nickel on the entire contact with selective gold plating on the mating area and tin on the solder tails.

All Delta-D connectors meet the dimensional requirements specified in Mil-C-24308. Design features accommodate robotic placement.



Technical Characteristics

Material:

Shells: Tin-plated steel with indents on male

Insulators: Self extinguishing thermoplastic to UL 94V-0 Contacts: Size 20 (ø 1mm), copper alloy, gold plated on

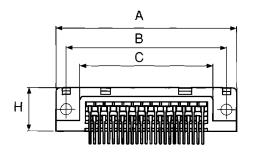
mating area, tin plated termination, nickel underplate

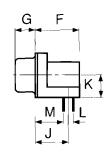
on entire contact

Harpoons: Tin-plated brass Grounding: Tin-plated brass Threaded Inserts: Tin-plated brass Female Screwlock: Tin-plated brass

Mechanical Endurance:

≥200 matings/unmatings (gold flash)





Electrical:

Maximum current rating: 5 Amps per contact

Maximum voltage: 1,000 V r.m.s. Rated voltage: 300 V r.m.s.

Initial Contact Resistance: $\leq 10 \text{ m}\Omega$

Shell Resistance: $\leq 5m\Omega$

Insulation Resistance: \geq 5,000 m Ω

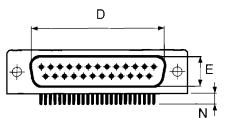
Environmental:

Operating Temperature Range: -55°C +125°C

Sait Spray: 24 hours Damp Heat: 21 days

Note: dimensions D and E:

inside dimensions of male connector external dimensions of female connector

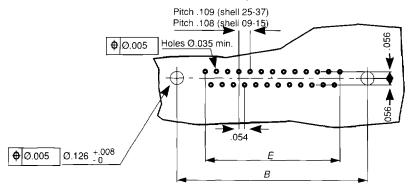


		Α	В	С	D	Ē	F	G	Н	J	K	L	М	N
		± .015	± .005	± .004	± .010	± .010	± .004	± .010	± .015	± .004	± .004	± .004	± .006	± .012
		(± 0.38)	(±0,12)	$(\pm 0, 10)$	(± 0.25)	$(\pm 0,25)$	(±0,10)	$(\pm 0,25)$	(±0,38)	$(\pm 0,1)$	(±0,1)	(±0,1)	(±0,15)	$(\pm 0,30)$
														Terminal
							_				_			Length
9	Р	1.213	.984	.668	.661	.324	.496	.230	.495	.374	.248	.112	.318	.125
		(30,81)	(24,99)	(16,96)	(16,79)	(8,23)	(12,60)	(5,85)	(12,58)	(9,50)	(6,30)	(2,84)	(8,08)	(3.18)
•	S	1.213	.984	.668	.638	.310	.496	.238	.495	.374	.248	.112	.318	.125
		(30,81)	(24,99)	(16,96)	(16,21)	(7,87)	(12,60)	(6,05)	(12,58)_	(9,50)	_(6,30) _	(2,84)	(8,08)	(3.18)
15	_	1.541	1.312	.991	.989	.324	.496	.230	.495	.374	.248	.112	.318	.125
	Р	(39,14)	(33,32)	(25,18)	(25,12)	(8,23)	(12,60)	(5,85)	(12,58)	(9,50)	(6.30)	(2,84)	(8,08)	(3,18)
	S	1.541	1.312	.991	.966	.310	.496	.238	.495	.374	.248	.112	.318	.125
		(39.14)	(33,32)	(25,18)	(24,54)	(7,87)	(12,60)	(6,05)	(12,58)	(9,50)	(6,30)	(2,84)	(8,08)	(3,18)
1	_	2.088	1.852	1.540	1.529	.324	.496	.230	.495	.374	.248	.112	.318	.125
25	<u>P</u>	(53,03)	(47,04)	(39,12)	(38,84)	(8,23)	(12,60)	(<u>5,</u> 85)	_(12,58)_	(9,50)	(6,30)	(2,84)	(8,08)	(3.18)
	S	2.088	1.852	1.540	1.506	.310	.496	.238	.495	.374	.248	.112	.318	.125
		(53,03)	(47,04)	(39,12)	(38,25)	(7,87)	(12,60)	(6,05)	(12,58)	(9,50)	(6,30)	(2,84)	(8,08)	(3.18)
l		2.736	2.500	2.192	2.177	.324	.496	.230	.495	.374	.248	.112	.318	.125
37	Р	(69,32)	(63,50)	(55,68)	(55,30)	(8,23)	(12,60)	(5,85)	(12,58)_	(9,50)	(6,30)	(2,84)	(8,08)	(3.18)
	S	2.736	2.500	2.192	2.154	.310	.496	.238	.495	.374	.248	.112	.318	.125
		(69,32)	(63,50)	(55,68)	(54,71)	(7,87)	(12,60)	(6,05)	(12,58)	(9,50)	(6,30)	(2,84)	(8,08)	

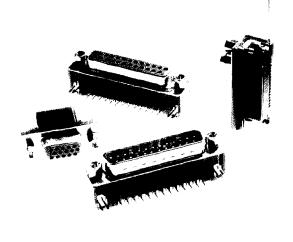
PC Board Drilling Dimensions

(plated holes)

(Thickness $.062 \pm .007$)



Shell	B ± .005 (± 0.13)	E ± .003 (± 0.08)		
09	.984 (24.99)	.431 (10.95)		
15	1.312 (33.32)	.755 (19.18)		
25	1.852 (47.04)	1.305 (33.15)		
37	2.500 (63.50)	1.956 (49.68)		



D-5

Quality, Reliability & Performance

Delta-D D-Subminiature conne are designed and manufactured give you the highest possible qu reliability and performance.

Produced with the highest qual materials selected for long-term performance, Delta-D not only offers design features critical to depend ty, but quality you can only get the control of the entire manufacturing process.

Delta-D D-Subminiature connector are UL and CSA approved. They full meet the dimensional standards of Mil-C-24308 and are designed to accommodate robotic placement.

2 Worldwide Inventory & Availability

Burndy is backed by the FCI (Framatome Connectors International commitment to worldwide inventory and production capacity, so that Decta D connectors are available in virtually every country of the world.

Our Customer Service personne: are prepared to quickly meet your requests for quotes and samples. In addition, Delta-D connectors are available through Burndy's network of authorized distributors throughout the United States and Canada.

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Competitive Pricing

The second secon

One solid source for all your input/output interconnect requirements

For each to Interconnect requirement, burnets all is your dependable source.

- Doc ATP Series low cost
 Descriptional actions
- MIS 1) high density connectors for SCs and other high performance LC applications
- MICEOSHIELD high density, ribbon style contact connectors for high performance E-O applications
- SCSi caple assemblies
- Sour an D-Sub connectors for industrial and military applications

rs

Innovative design features to meet your requirements

As a leader in connector innovations, FCI stresses *continuous improvement* at all levels including customer input and inhouse evaluation from engineering to manufacturing.

You can see the results in theDelta-D line as it incorporates the performance, design features and accessories that address customers' needs.

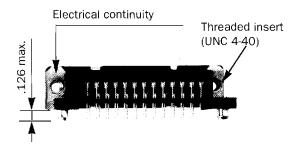
- Nickel underplating with selective gold plating in the mating area and tin plating on the solder tail assure contact reliability, good solderability and low cost by placing the gold in the mating area
- Contacts of copper alloy for low insertion/high normal force characteristics.
- Steel shells are designed to mate with EMI/RFI shielded cables.
- Large chamfer lead-in on the sockets assures easy mating.
- Smooth lead-in on pin tips for easy mating/low insertion force.
- The vacuum pick-up surface is compatible with robotic placement equipment.
- Retention harpoons are available to provide secure retention to the PCB.
- Thermoplastic housing is U.L. rated to 94V-0.

Hardware Options

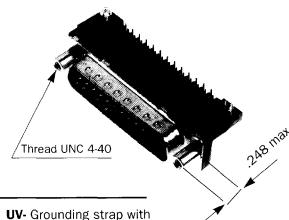
Assembly options and specific dimensions

Delta-D offers various options for retention on the PC Board or the front hardware. Each assembly option corresponds to two letters included in the part number when ordering.

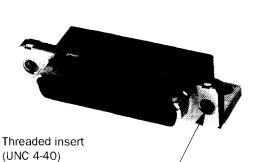
GX- Harpoon with grounding strap Threaded insert (UNC 4-40).



GV- Harpoon with grounding strap and riveted jackpost (UNC 4-40).



UX- Grounding strap with threaded insert (UNC 4-40). No harpoons.



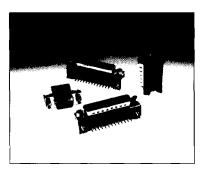
UV- Grounding strap with riveted jackpost (UNC 4-40).
No harpoons.



Part Numbering System

Series				D 2	5 P 33E	4 GV 00					
Number of Co	ntact	s 9, 15,	25, 37								
Contacts P: Pin S: Socket											
Terminations	Code	Туре	Pitch Between Row	Length of Termination	PCB Thickness						
	33E	, ,	.112	.125	.063						
		Footprint									
Plating Class 4: Standard Class gold flash (>200 mating/unmating)											
30 μ" gold also available - consult factory											
Hardware Options GX											
•	bove										
		UV									
		UX									
Variations		00	Standard serie	S							

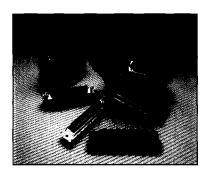
Contact Burndy for all Your Input/Output Interconnect Requirements!



Delta-D™
Low cost, high reliability D-subminiature series.
Available in 9, 15, 25 and 37 positions, male and female configurations.



Mini-D High density, shielded connector series for use in SCSI and other high performance I/O applications.

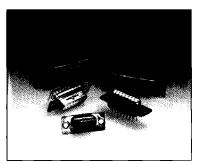


Microshield™
High density, shielded connectors with a rugged ribbon-style contact system for use in any high performance I/O



SCSI Cable Assemblies SCSI-1, SCSI-2 and SCSI-3 cable assemblies. SCSI/Microshield adaptor cables.

application.



Souriau D-Sub
D-Subminiature connectors for industrial and
military applications.

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