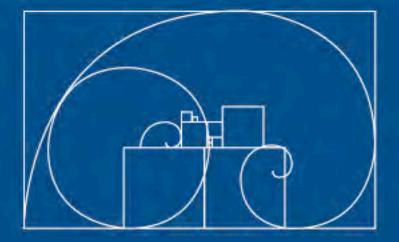
D-SUBMINIATURE

D*KL Series D*A Series D*U Series Basic D Series Serie Series 3 - High Reliability Backshells/Junctionshells/Hoods Application Tooling

HTD/HPD Series Overmold Kits T* Series Series 1 - High Reliability M24308 Series oods Accessories







Introduction



The D-subminiature is one of the most popular styles of connectors in the I/O category. It is used in computer, telecom, datacom, medical, and test instrumentation applications as well as in the military and aerospace fields.

Types of D-subminiature connectors manufactured by Cinch

- Printed Circuit Board connectors:
 - Vertical connectors for panel mounting with Dip Solder PC tails.
 - Right-Angle connectors for board mounting with Dip Solder PC tails.
- Wire Termination connectors for cable assemblies or wire harnesses:
 - Crimp and Poke connectors.
 - Solder Cup connectors.
 - Insulation Displacement connectors IDCs to terminate discrete wire or flat cable.
 - Wire Wrap connectors.

How to read this section

- The information pages provide standard data common to all D-subminiature connectors. These include:
 - D-subminiature contact arrangements see page 4-5.
 - Panel mounting specifications/hardware see page 4-6.
 - D-subminiature shell dimensions see page 4-7.
 - D-subminiature and combo D layouts see pages 4-5, 4-8 thru 4-10, and 4-56.
 - General Performance Specifications see page 4-2.
 - PCB thickness chart see page 4-8.
- D-subminiature pages are grouped by series. A series is a family of connectors with a similar performance level. Each series shares a set of features and specifications, from economical and commercial grade product to high-reliability and military connectors. Each series begins with a page outlining general features and specifications of connectors, followed by the pages on individual connectors with drawings or features specific to that connector. Drawings reflect clarifications of dimensions not called out in the information pages of this catalog. The features of each series can be found in the chart on page 4-4.
- Accessories including backshells, junction shells, and hoods as well as hardware can be found on pages 4-80 thru 4-99.
- Termination tooling for Cinch connectors can be found at the end of the D-subminiature section of this catalog on pages 4-100 thru 4-104.

Introduction



General Information

- All connectors are intermateable with any Cinch D-subminiature of comparable pin count and density, or the D-sub connector of any other manufacturer complying dimensionally with MIL-C-24308.
- Solder terminations and boardlocks meet the requirements for solderability in accordance with MIL-STD-202, Method 208.
- DURABILITY
 - Mated connectors are subjected to cycles of insertions and withdrawals specified on the catalog
 page. After the prescribed cycles the connectors will meet the Cinch requirements concerning insertionwithdrawal force, individual contact insertion-withdrawal force, and contact resistance.
- APPROVALS
 - Most Cinch connectors have UL recognition and CSA approval; however, the specific approvals are listed on the individual catalog pages.
- CONTACTS
 - Cinch connector contacts are generally offered in Gold Flash or 30µin. gold plating for commercial product, and 50µin. gold plating for M24308 Series Military D-subminiature connectors.
 - Cinch connectors utilize economical stamped and formed contacts and/or screw machine contacts for enhanced performance.
 - Standard density connectors utilize size 20 contacts.
 - Cinch 1.5 Density Series connectors utilize size 22 contacts for greater density in a standard size D-subminiature outer shell.

METAL SHELLS

- Commercial-grade steel shells are usually available in zinc plating with yellow chromate finish or tin plating.
- Tin-plated plugs have grounding indents.
- Military grade M24308 Series connector shells are generally steel or in certain cases non-magnetic brass with cadmium plating and yellow chromate finish.
- Insulator materials are glass-filled polyester, glass-filled nylon, and diallyl phthalate.
- The connectors are usually available in plugs and sockets in 9, 15, 25, 37, and 50 position sizes.

Introduction

Printed Circuit Board Connectors

- Cinch provides connectors in various footprints, contact diameters, and lengths in both vertical and right-angle PC mount styles with dip solder tails.
- Cinch PCB connectors have metal shells.

Connectors for Terminating Cable Wire

- Wire Wrap connectors are available in two tail lengths for two-wrap and three-wrap terminations. The contact
 is terminated by wrapping wire around it using a wire wrap gun. This connector is especially useful for
 prototyping since the wire can be unwrapped and rewrapped if necessary.
- Solder Cup connectors allow reliable long-term termination by soldering the wire directly into the connector contact. Cinch Solder Cups accommodate up to 20 AWG wire.
- Crimp and Poke connectors allow the wire to be terminated more economically than wire wrap or solder cup styles. Contacts are crimped and inserted into the connector. In our D*U Series, the contact is crimped around the conductor wire. In our D*A Series, the contact is crimped around the wire and the insulation. Crimp and Poke connectors can be selectively loaded to save labor and material cost.
- IDC connectors are an alternative to other types of wire termination connectors. IDC is much faster and very
 reliable when all contacts are terminated and the volume is high. IDC utilizes mass termination of the cable wire.
 This can save considerable time and expense in the cable assembly process. The estimated time of terminating
 two ends of a 25-conductor discrete wire cable with 25-position D-subminiature connectors is about 5-1/2 to 6
 minutes less per cable assembly using IDC connectors and Cinch Auto-Clinch termination tooling versus using
 Crimp and Poke connectors. This may vary considerably based on the operator, cable wire, and process.
 Cinch offers IDC connectors in two versions-for discrete wire or flat ribbon termination.

Cinch

Introduction



Feature Guide

The chart below contains Cinch D-subminiature product features and styles grouped by series.

Performance Level	Eco	nomical		C	omme	rcial	High-Re	liability	Military
Series	D'KL	HPD/HTD	D*A	טים	T	Basic D	Series 1	Series 3	M24308
Termination Type				_					
Vertical PCB	4-12			4-26		4-42	4-50	ī	4-76
Right-Angle PCB	4-12	4-16		4-26	_		4-50	A	4-76
Crimp and Poke		4-16	4-20	4-26		-		4-72	4-76
Solder Cup	·		-		4-34	4-42	4-50		4-76
IDC				_	4-34				
Wire Wrap				_		4-42			
Insulator Material	1	-	942						-
G-F Nylon				•	-				
G-F Polyester	•				•				
Diallyl Phthalate					_		•	· ·	•
Shell Material	1 =								
All Plastic					•			-	
Steel Shell				•	•				• · · ·
Shell Plating									
Tin-Lead Plating				•	•				
Zinc Plating-Y/C finish			•	•	•	•	•	•	
Cadmium Plating-Y/C finish			-				•*		- * - ·
Contact Plating									
Gold-Flash Plating				•	•		12.00	1.2	
30µin. Gold Plating	1.4		100	•••	<u>.</u>			-2.5-	-
50µin. Gold Plating							•*		
Contact Type	-		1					_	
Stamped Contacts		•		•	•		1		
Machined Contacts				•	_				

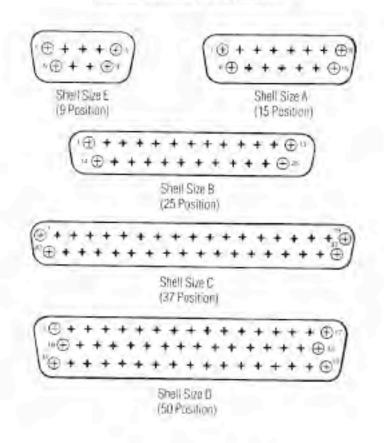
Accessories information starts on page 4-80. Tooling information starts on page 4-100.

* Applies to Combination Layout Only.

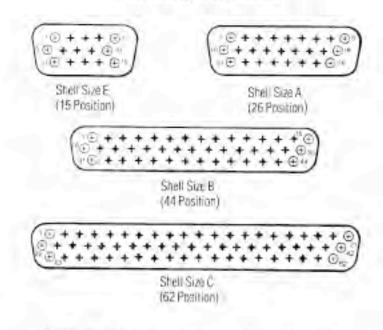
Introduction Contact Arrangements







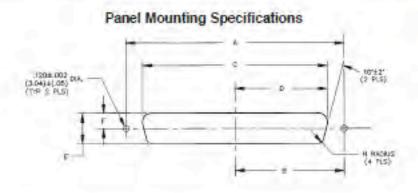
1.5 Density Plug Inserts



NOTE Mating face of plug is shown; socket is mirror image.

Introduction Shells and Mounts



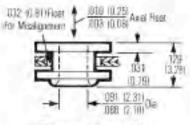


Dimensions

	M	ounting Metho	bd				_	-	_	-		-				
Shell		Front/		A		8		C		0		E		F		
Size	Positions	Rear Panel	in	mm	in	mm	in	mm								
E		Front	0.98	24.89	0.49	12.45	0.87	22.10	0.44	11.18	0.51	12.95	0.26	6.60	0.08	2.03
E.	9	Rear	0.98	24.89	0.49	12.45	0.81	20.57	0.40	10.16	0.45	11.43	0.23	5.84	0.13	3.30
	15	Front	1.31	33.27	0.66	16.76	1.10	27.94	0.60	15.24	0.51	12.95	0.26	6.60	80.0	2.03
A	15	Rear	1.31	33.27	0.66	16.76	1.13	28.70	0.57	14.48	0.45	11.43	0.23	5.84	0.13	3.30
	or	Front	1.85	46.99	0.93	23.62	1.74	44.20	0.87	22.10	0.51	12.95	0.26	6.60	0.08	2.03
в	25	Rear	1.85	46.99	0.93	23.62	1.67	42.42	0.84	21,34	0.45	11.43	0.23	5.84	0.13	3.30
0	07	Front	2.50	63.50	1.25	31.75	2.39	60.71	1.20	30.48	0.51	12.95	0.26	6.60	0.08	2.03
C	37	Rear	2.50	63.50	1.25	31.75	2.33	59.18	1.16	29.46	0.45	11.43	0.23	5.84	0.13	3.30
0	50	Front	241	61.21	1.20	30.48	2.30	58.42	1.15	29.21	0.62	15.75	0.31	6.60	80.0	2.03
D	50	Rear	241	61.21	1.20	30.48	2.22	56.39	1.11	28.19	0.56	14.22	0.28	5.84	0.13	3.30

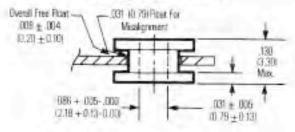
PANEL MOUNTING HARDWARE: Aids in alignment of plug and receptacle.

Float Bushing



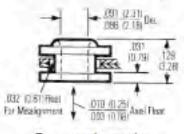
Rear panel mounting

Floating Dual Bushing

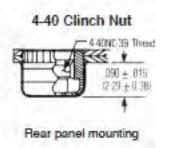


Front and rear panel mounting

Reverse Float Bushing



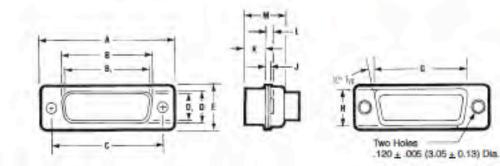
Front panel mounting



4-6

Introduction Shells and Mounts





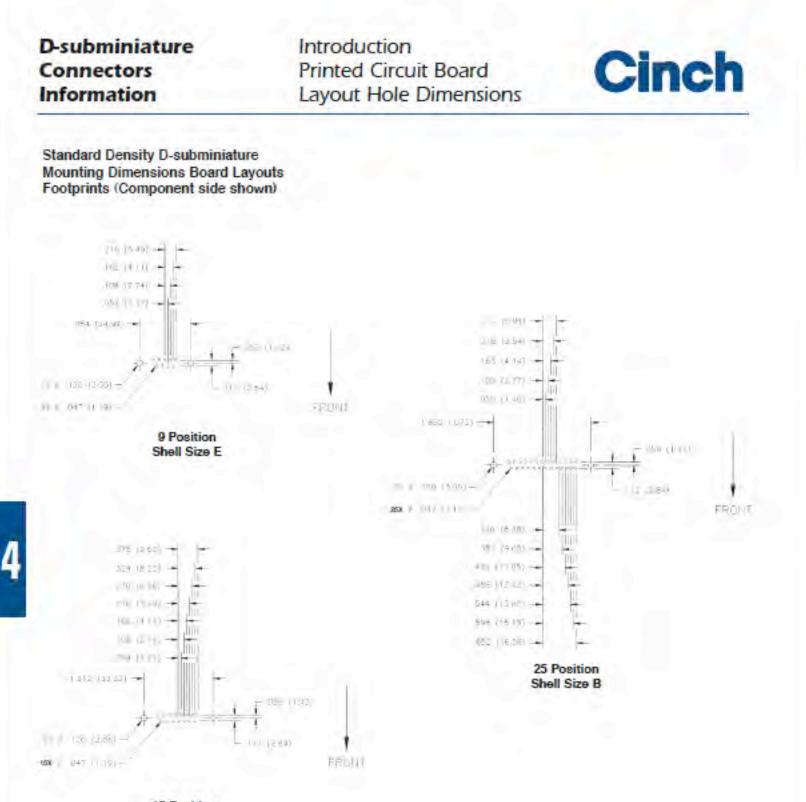
Mating Side

Termination Side

Shell	0	Connector		+.015" 8mm)	B + (0.25	.010* mm)		4.005* 3 mm)	C + (0.13	.005" (mm)		.010" 5mm)		+.010* 5mm)		.010* 5mm)
Size	Positions	Туре	in	mm	In	mm	in	mm	in	mm	in	mm	in	mm	In	mm
E	9	Plug	1.213	30.81	1	. e.	.666	16.90	0.984	24.99		~	329	8.40	.494	12.55
-		Socket	1.213	30.81	.640	16.26		-	0.984	24.99	.308	7.82	-	-	.494	12.55
A	15	Plug	1.541	39.14	1.41	-	.994	25.30	1.312	33.32	1.46	-	.329	8.40	.494	12.55
		Socket	1.541	39.14	.968	24.59		-	1.312	33.82	.308	7.82		-	.494	12.55
В	25	Plug	2.088	53.04	144		1.534	39.00	1.852	47.04	-	- 20	.329	8.40	.494	12.55
6.2	- 44 C	Socket	2.088	53.04	1.508	38.30		-	1.852	47.04	.308	7.82	-	-	.494	12.55
C	37	Plug	2.729	69.32	÷.	-	2.182	55.40	2.500	63.50	-	-	.329	8.40	.494	12.55
		Socket	2,729	69.32	2.156	54.76	+	-	2.500	63.50	.308	7.82	-	-	.494	12.55
D	50	Plug	2.635	66.93	1.4		2.079	52.80	2.406	61.11	-	-	.436	11.07	.605	15.37
		Socket	2,635	66.93	2.062	52.34	-	-	2,406	61.11	.420	10.67	-	100	.605	15.37

Shell	s ett	Connector	_	.010" 5mm)		.010" Smm)	_	010" mm)		.005" 5mm)		+.010" 25mm)		+.010" 5mm)
Size	Positions	Туре	in	mm	in	mm	in	mm	in	mm	In	mm	in	mm
E	9	Plug	.759	19.28	.422	10.72	.030	0.76	.236	5.99	.045	1.14	.422	10.72
		Socket	.759	19.28	.422	10.72	.030	0.76	.243	6.17	.045	1.14	.429	10.92
A	15	Plug	1.083	27.51	.422	10.72	.030	0.76	.236	5.99	.045	1.14	.422	10.72
1		Socket	1.083	27.51	.422	10.72	.030	0.76	.253	6.17	.045	1.14	.429	10.92
в	25	Plug	1.625	41.27	.422	10.72	.039	0.99	.231	5.87	.060	1.52	.426	10.82
		Socket	1.625	41.27	.422	10.72	.030	0.76	.243	6.17	.045	1.14	.429	10.92
C	37	Plug	2.272	57.71	.422	10.72	.039	0.99	.231	5.87	.060	1.52	.426	10.82
200	A	Socket	2.272	57.71	.422	10.72	.030	0.76	.243	6.17	.045	1.14	.429	10.92
D	50	Plug	2.178	55.32	.534	13.56	.039	0.99	.231	5.87	.060	1.52	.426	10.82
		Socket	2.178	55.32	.534	13.56	.030	0.76	.243	6.17	.045	1.14	.429	10.92

B and D are outside dimensions for socket. D and B are inside dimensions for plug.



15 Position Shell Size A

The footprints on this page are standard for all metal shell D-subminiature connectors.

On all right-angle D-subminiature connectors, the short row of contacts is positioned closest to the edge of the board.

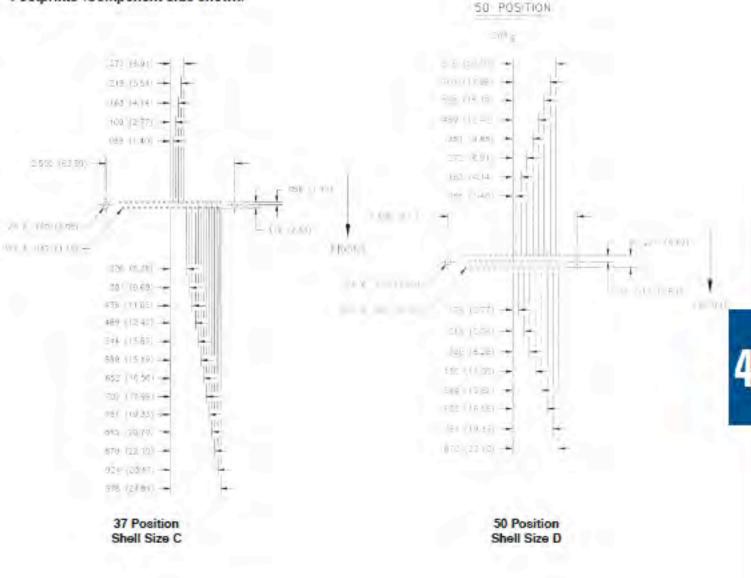
PC Board Lead Hole Size

Termin	al Dia. H	ole Dia.	
in	mm	in	mm
.040	1.02	.055	1.40
.030	0.76	.045	1.14
024-025	0.61-0.6	4 .039	0.99

Introduction Printed Circuit Board Layout Hole Dimensions



Standard Density D-subminiature Mounting Dimensions Board Layouts Footprints (Component side shown)



The footprints on this page are standard for all metal shell D-subminiature connectors.

On all right-angle D-subminiature connectors, the short row of contacts is positioned closest to the edge of the board.

PC Board Lead Hole Size

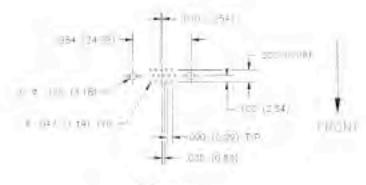
Termin	al Dia. I	Hole Dia.	
in	mm	in	mm
.040	1.02	.055	1.40
.030	0.76	.045	1.14
.024025	0.61-0.6	34 .039	0.99

4-9

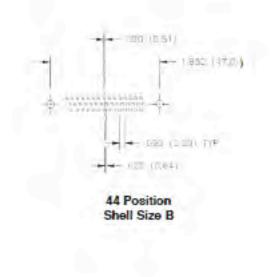
Introduction Printed Circuit Board Layout Hole Dimensions



1.5 Density D-subminiature Recommended PCB Layout for Footprint (Component side shown)



15 Position Shell Size E





The footprints on this page are standard for all metal shell D-subminiature connectors.

On all right-angle D-subminiature connectors, the short row of contacts is positioned closest to the edge of the board.

PC Board Lead Hole Size

Termin	al Dia. H	lole Dia.	
in	mm	in	mm
.040	1.02	.055	1.40
.030	0.76	.045	1.14
024-025	0.61-0.6	4 .039	0.99

Call Toll Free: 1 (800) 323-9612

D-subminiature Metal Shell Right-Angle and Vertical PCB D*KL Series



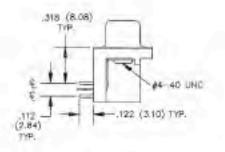
EATURES	 Offered in right-angle or vertical PCB mount versions Available with gold flash or 30µin. gold plating. Metal Shell provides grounding and shielding capabili Approvals: UL Recognized: File E130965. CSA Approved: File LR97981. See pages 4-5 thru 4-10 for standard dimensions, conmounting specifications. 	ity.
MATERALS	Insulator Material: Glass-filled polyester (black), UL 94V-O rated Contact Material: Socket - Phosphor bronze (stamped) Plug - Brass (stamped) Contact Plating: Gold flash or 30µin. gold in mating area and tin/lead on tails. All over nickel. Metal Shell: Steel with tin plating (grounding indents on plug)	
ENVIRONMENTAL	Operating Temperature: -55°C to +125°C Shock: 50G peak per MIL-STD-202, Method 213, Condition G Vibration: 12 cycles in three perpendicular directions @ 10-2000Hz, per MIL-STD-202, Method 204, Condition D Moisture Resistance: 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103	F WWW
I ELECTRICAL	Withstanding Voltage: Right Angle - minimum AC 1250V RMS @ sea level, Vertical - minimum AC 1000V RMS @ sea level 1000V RMS @ sea level Current Rating: 5 Amps Contact Resistance: 15 milliohms maximum Insulation Resistance: 5000 megohms maximum (initial); 1000 megohms (minimum) after environmental testing	
MECHANICAL	Individual Contact Insertion and Separation Force (minimum/maximum): 0.7 oz./12 oz. Durability: 500 mating cycles	

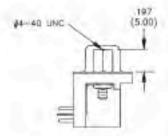
4-12

Economical D-subminiature Metal Shell Right-Angle PCB D*KL Series

Right-Angle Connectors

- 0.318^e footprint.
- Available in 9, 15, and 25 position plugs and sockets.
- Offered with 4-40 threaded inserts for secure mounting to panels or with female screwlocks.
- Boardlocks to provide mechanical hold-down during wave soldering process.
- Materials:
 - Boardlock: Brass with tin plating.
 - Female Screwlock: Brass with nickel plating.





Cinch

Ordering Information

Right-Angle Plugs

	4-40 Threa	ded Inserts	Female Screwlocks			
Size	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold		
9	DEKL-9PATI-E	DEKL-9PATI-E2	DEKL-9PATI-F	DEKL-9PATI-F2		
15	DAKL-15PATI-E	DAKL-15PATI-E2	DAKL-15PATI-F	DAKL-15PATI-F2		
25	DBKL-25PATI-E	DBKL-25PATI-E2	DBKL-25PATI-F	DBKL-25PATI-F2		

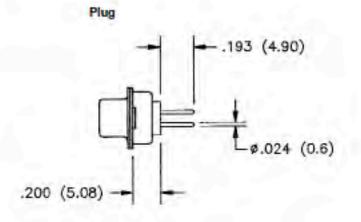
Right-Angle Sockets

	4-40 Three	aded Inserts	Female Screwlocks			
Size	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold		
9	DEKL-9SAT-E	DEKL-9SAT-E2	DEKL-9SAT-F	DEKL-9SAT-F2		
15	DAKL-15SAT-E	DAKE ISSATE2	DAKL-15SAT-F	DAKL-15SAT-F2		
25	DBKL-25SAT-E	DBKL-25SAT-E2	DBKL-25SAT-F	DBKL-25SAT-F2		

D-subminiature Metal Shell Vertical PCB D*KL Series



- Vertical Connectors:
 - Available in 9, 15, 25, 37, and 50 position plugs and sockets with straight dip solder tails.
 - 0.024" contact diameter.
 - Offered with standard mounting holes.



Ordering Information

Vertical PCB Connectors

	PI	ugs	Sockets			
Size	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold		
9	DEKL-9PUTI	DEKL-9PUTI-2	DEKL-9SUT	DEKL-9SUT-2		
15	DAKL-15PUTI	DAKL-15PUTI-2	DAKL-15SUT	DAKL-15SUT-2		
25	DBKL-25PUTI	DBKL-25PUTI-2	DBKL-25SUT	DBKL-25SUT-2		
37	DCKL-37PUTI	DCKL-37PUTI-2	DCKL-37SUT	DCKL-37SUT-2		
50	DDKL-50PUTI	DDKL-50PUTI-2	DDKL-50SUT	DDKL-50SUT-2		

D-subminiature 1.5 Density Metal Shell Crimp and Poke and Right-Angle PCB HPD/HTD Series



		_
FEATURES	 1.5 Density means the connector uses small size #22 contacts for a higher pin count in a standard size shell. Also accepts standard D-subminiature accessories (hoods, backshells, or per the following chart:	etc.)
MATERALS	 Connector Shell: Steel with tin plating (grounding indents on plug) Contact Material: Phosphor bronze (stamped) Contact Plating: Sockets: Gold flash or 30µin. gold in mating area and tin/lead on tails. All over nickel. Plugs: Gold flash or 30µin. gold in mating area and gold flash on remainder. All over nickel. 	
ENVIRONMENTAL	Operating Temperature: -55°C to +125°C Shock: 50G peak per MIL-STD-202, Method 213, Condition G Vibration: 12 cycles in three perpendicular directions @10-2000Hz, per MIL-STD-202, Method 204, Condition D Moisture Resistance: 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103	
ELECTRICAL	Withstanding Voltage: Minimum 1000V RMS @ sea level Current Rating: 3 Amps Contact Resistance: 15 milliohms maximum Insulation Resistance: 5000 megohms maximum (initial); 1000 megohms (minimum) after environmental testing	
MECHANICAL	Individual Contact Insertion and Separation Force (minimum/maximum): 0.7 oz./12 oz. Durability: • Plugs - 200 mating cycles • Sockets - 200 mating cycles	

Call Toll Free: 1 (800) 323-9612

4-16

D-subminiature 1.5 Density Metal Shell Crimp and Poke Plugs HTD Series

Connectors:

- Offered with .120 mounting holes.
- Shells offered with tin plating and grounding indents.
- These connectors are designed to accommodate one repair cycle.

Contacts: (Not included with connectors, order separately)

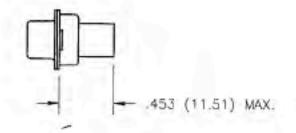
- Available with gold-flash plating or 30µin. gold.
- Crimp and Poke versions are offered in reels of 15,000 or 300 contacts.
- Solder and Poke contacts are packed loose.
- Will accommodate 22-30 AWG wire.
- Order contacts separately. See page 4-18.

Termination Tooling:

- Semi-automatic Stripper Crimper Tool for 15,000 reels: #HTD-518. See page 4-102.
- Crimp Contact Hand Tool for 300-piece reels: #HTD-266. See page 4-101.
- Semi-automatic Hand Crimping Tool for individual contact termination: #HTD-544. See page 4-101.
- Contact Insertion/Extraction Tool: Cinch #CIET-22-DF. See page 4-101.

Materials:

Insulator Material: Black UL 94 V-0 glass-filled nylon.



Ordering Information

HTD Series 1.5 Density Crimp and Poke Plug Connectors

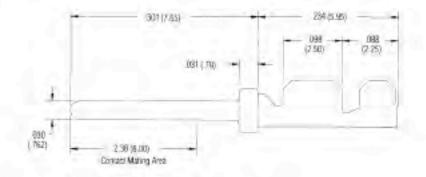
Size	Shell Size	Catalog Number
15	E	HTDE-15PTI-FO
28	ligenn	HTDA-26PTI-FO
44	- Gool	HTOB-MPTI-FO
62	C	HTDC-62PTI-FO

Cinch

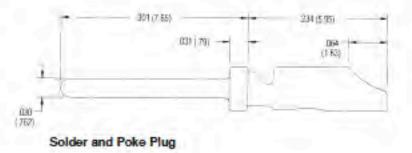
D-subminiature 1.5 Density Metal Shell Crimp and Poke Plugs HTD Series



- Use with HTD Series 1.5 D-Sub Crimp and Poke connectors and overmold kits.
- All Crimp and Poke contacts are on right-hand feed reels.



Crimp and Poke Plug Contact



Ordering Information

HTD Series 1.5 D-sub Male Crimp and Poke and Solder and Poke Contacts

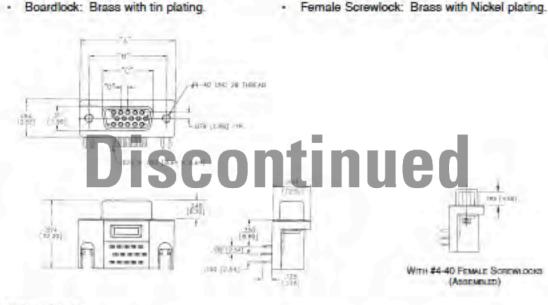
Type of	Crimp a	ind Poke	Crimp and		Solder a	nd Poke
Packing	15,00	0 Reel	300 Re			000
Plating	Gold Flash	30pin. Gold C	Gold Flash	30ph. Gold	Gold Flash	30pin. Gold
Pin	HTD CP 0 15000	HTD CP 1 15000	CHTO CP 0 500	170 CP 1-300	HTD SP 0 10	Not Available



- .350" footprint.
- Offered with fixed 4-40 threaded inserts for secure mounting to panels or with assembled female screwlocks.
- Boardlocks to maintain electrical continuity between shell and PC board ground and provide mechanical hold-down during wave soldering process.
- Available in standard configuration sockets, sizes 15, 26, 44, and 62 with black insulator.
- 15 position socket also available with royal blue insulator in Windows '95" configuration with Pin #9 recessed 0.050".

Materials:

 Insulator Material: Glass-filled polyester (standard configuration - black, -9R configuration - blue), UL 94V-0 rated.



Dimensions

2 20.00		A	1.11	В		C	D	
Positions	±.015	(±0.038)	±.010	(±0.25)	±.010) (±0.25) mm	in	mm
15	1.214	30.84	0.984	24.99	0.640	16.28	0.090	2.29
26	1.545	39.24	1.312	33.32	0.967	24.58	0.090	2 29
44	2.088	53.04	1.852	47.04	1.508	38.30	0.090	2.29
62	2.730	69.34	2.500	63.50	2.156	54.76	0.095	2.41

Ordering Information

HPD Series 1.5 Density Right-Angle Socket Connectors

_	Shell			4-40 Three	aded inserts		rewiocks
Size	Size	Туре	Color	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
15	E	Standard	Black	HPDEB-15SAT-E	HPDEB-15SAT-E2	HPDEB-15SAT-F	HPDEB-15SAT-F2
28	A	Standard	Black	HPDAB-26SAT-E	HPDAB-26SAT-E2	HPDAB-26SAT-F	HPDAB-26SAT-F2
44	B	Standard	Black	HPDBB-44SAT-E	HPDBB-44SAT-E2	HPDBB-44SAT-F	HPDBB-44SAT-F2
62	C	Standard	Black	HPDC8-62SAT-E	HPDCB-62SAT-E2	HPDCB-62SAT-F	HPDCB-62SAT-F2
15	E	Windows '95*	Blue	HPDEB 15SAT E-0R	HPDEB-15SAT-E2-9R	HPDEB-15SAT-F-9R	HPDEB-15SATE2-9P

Windows '95 is a registered trademark of Microsoft.

D-subminiature Metal Shell Crimp and Poke D*A Series



FEATURES	 Offered in 9, 15, 25, 37, and 50 position plugs and sockets. Contacts: Available with gold flash or 30µin. gold plating. Offered in 15,000 contact reel or 300 contact reel, or in loose-piece bags of 100 or 1000 each. Accommodate 20-24 AWG wire or 26-30 AWG wire. Not included with connector - order stamped contacts separately. Approvals: UL Recognized - Files E170218 (UL1977) and E130965 (UL1863). CSA Approved - File LR31996. See pages 4-5 thru 4-10 for standard dimensions, contact arrangements, and panel mounting specifications.
MATERIALS	Insulator Material: Glass-filled nylon (black), UL 94 V-O rated Connector Shell: Steel with zinc plating and yellow chromate finish or tin plating (plug has grounding indents) Contact Material: • Plug - Brass (stamped) • Socket - Phosphor bronze (stamped) Contact Plating: Gold flash or 30µin. gold in mating area and gold flash on the remainder. All over nickel. 4-40 Clinch Nut: Steel with cadmium plating and yellow chromate finish Dual Float Bushing: Stainless steel, passivated
ENVIRONMENTAL	Operating Temperature: -65°C to + 125°C Shock: 50G peak per MIL-STD-202, Method 213, Condition G Vibration: 12 cycles in three perpendicular directions @ 10-2000Hz, per MIL-STD-202, Method 204, Condition D Moisture Resistance: 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103
ELECTRICAL	Withstanding Voltage: Minimum 1000V RMS @ sea level Current Rating: 5 Amps Contact Resistance: 2.7 milliohms maximum Insulation Resistance: 5000 megohms maximum (initial); 1000 megohms (minimum) after environmental testing
MECHANICAL	Individual Contact Insertion and Separation Force (minimum/maximum): 0.7 oz./12 oz. Durability: 500 mating cycles

Call Toll Free: 1 (800) 323-9612

4-20

D-subminiature Metal Shell Crimp and Poke Connectors D*A Series

Offered with .120 mounting holes or 4-40 clinch nuts.



Termination Tools

- Semi-Automatic Stripper Crimper Tool for 15K reels: #GSC-20-30. See page 4-102.
- Contact Insertion/Extraction Tool: #CIET-20-HDB. See page 4-101.
- Crimp Contact Hand Tool for 300-piece reels: #GHC-B (20-26 AWG wire) or Catalog #GHC-B1 (28-30 AWG wire). See page 4-101.
- Crimp Contact Hand Tool for loose piece contacts: #HTD-544. See page 4-101.

Ordering Information

D*A Series Crimp and Poke Connectors - Plugs

	Zinc plated shell with	yellow chromate finich		ith grounding indente
Positions	Mounting Holes	4-40 Clinch Nuts	Mounting Holes	4-40 Clinch Nuts
9	DEA-9P-FO	DEAE-9P-FO	DEA-9PTI-FO	DEAE-9PTI-FO
15	DAA-15P-FO	DAAE-15P-FO	DAA-15PTI-FO	DAAE-15PTI-FO
25	DBA-25P-FO	DBAE-25P-FO	DBA-25PTI-FO	DBAE-25PTI-FO
37	DCA-37P-FO	DCAE-37P-FO	DCA-37PTI-FO	DCAE-37PTI-FO
50	DDA-50P-FO	DDAE-50P-FO	DDA-50PTI-FO	DDAE-50PTI-FO

D*A Series Crimp and Poke Connectors - Sockets

	Zinc-plated shell with	yellow chromate finish	Tin-plate	d shell
Positions	Mounting Holes	4-40 Clinch Nuts	Mounting Holes	4-40 Clinch Nuts
9	DEA-9S-FO	DEAE-9S-FO	DEA-9ST-FO	DEAE-9ST-FO
15	DAA-15S-FO	DAAE-15S-FO	DAA-15ST-FO	DAAE-15ST-FO
25	DBA-25S-FO	DBAE-25S-FO	DBA-25ST-FO	DBAE-25ST-FO
37	DCA-37S-FO	DCAE-37S-FO	DCA-37ST-FO	DCAE-37ST-FO
50	DDA-50S-FO	DDAE-50S-FO	DDA-50ST-FO	DDAE-50ST-FO
,				

Cinch

D-subminiature Metal Shell Crimp and Poke Insulation Grip Contacts D*A Series

Cinch



Ordering Information

D*A Series Crimp and Poke Contacts on Reels

Contacts per	Reel 15	,000	15	,000	3	00	3	300
Wire Gauge		4 AWG		AWG		AWG		AWG
Plating	Gold Flash	30µin. Gold						
Pin	DGP-15-1	DGP-15-2	DGP-15-3	DGP-15-4	DGP-3-1	DGP-3-2	DGP-3-3	DGP-3-4
Socket	DGS-15-1	DGS-15-2	DGS-15-3	DGS-15-4	DGS-3-1	DGS-3-2	BGS-3-3	DGS-3-4

D*A Series Crimp and Poke Loose-Piece Contacts

Contacts per	Bag	100	1	00	10	000	10	00
Wire Gauge	20-2	4 AWG		AWG		AWG		AWG
Plating	Gold Flash	30µin Gold	Gold Flash	30µin Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
Pin	DGP-100L-1	DGP-100L-2	DGP-100L-3	DGP-100L-4	DGP-1000L-1	DGP-1000L-2	DGP-1000L-3	DGP-100L-4
Socket	DGS-100L-1	DGS-100L-2	DGS-100L-3	DGS-100L-4	DGS-1000L-1	DGS-1000L-2	DGS-1000L-3	DGS-100L-4

D-subminiature Metal Shell Overmold Kits D*A and HTD Series



- Cinch overmold kits enable you to overmold the connector of the cable assembly for less material and process cost (versus a metal backshell), improved appearance, and improved shielding of the connector to help meet RFVEMI requirements.
 - An Overmold Kit catalog number consists of:
 - D*A or HTD Crimp and Poke connector.
 - Inside shielding cover.
 - Outside shielding cover.
- You will also need to order the following:
 - Crimp and Poke stamped contacts must be ordered separately on page 4-22 for D*A and page 4-18 for HTD connectors.
 - Ferrules are required, but must be ordered separately according to the size necessary to accommodate the wire. See page 4-25.
 - Termination tooling is required to crimp the wires on the connector.
 - A hand tool and appropriate crimping die are required for crimping the ferrule.
 - All specifications on the connector portion of the overmold kit can be found on pages 4-16 thru 4-17 for HPD 1.5 density and pages 4-20 thru 4-21 for D*A series.

MATERALS

FEATURES

Shield Covers: Steel (stamped) with tin/lead finish Ferrule: Brass







Dimensions

Overmold Shielding Kits

	0)		E		E.	G		н
Positions	in	mm	in	mm	in	mm	in	mm	Deg.	in	mm
9 Plug	0.270	6.88	0.705	17.91		33.53	0.520	13.21	75	0.440	11.18
9 Socket	0.285	7.24	0.705	17.91		33.53	0.520	13.21	75°	0.440	11.18
15 Plug	0.270	0,86	1.050	20.07		33.53	0.520	13.21	58°	0.440	11.18
15 Socket	0.285	7.24	1.050	26.67		33.53	0.520	13.21	58°	0.440	11.18
25 Plug	0.275	6.99	1.590	40.39		33.53	0.520	13.21	40°	0.440	11.18
25 Socket	0.285	7.24	1.590	40.39		33.53	0.520	13.21	40°	0.440	11.18
37 Plug	0.275	6.00	2.240	56.90		41.15	0.750		324	0.520	13.21
37 Socket	0.285	7.24	2.240	56.90	1.620	41.15	0.750	19.05	324	0.520	13.21

Call Toll Free: 1 (800) 323-9612

Overmold Kits (Cont'd)

Ordering Information

B*A Series Crimp and Poke Overmold Kits

	Tin-plated shell					
Positions	Plugs	Sockets				
9	DEAO-9PTI-FO1	DEAO-9ST-FO1				
15	DAAO-15PTI-FO1	DAAO-15ST-FO1				
25	DBAO-25PTI-FO1	DBAO-25ST-FO1				
37	DCAO-37PTI-FO1	DCAO-37ST-FO1				

HTD Series 1.5 Density Plugs Overmold Kits

Size	Shell Size	Catalog Number
15	E	LITDEO 150TLEOT
10	L.	HIDEONSI IPI OI
28	Δ.	HTDAO-26PTLEO1
20	11	1110110 201 111 01
AA	D	UTOPO MOTI CO1
-	0	THOUGH THOU

Crimp Ferrule

Discontinued

100 1

Ordering Information

Catalog		_	J	K				Crimp Die
Number	Туре	in	mm	in	(1)(1)	in	mm	Catalog No
CF-51	1	.437	11.10	.200	5.08	.450	11.43	CD-07
CF-42	1	.437	11.10	.235	5.97	.450	11.43	CD-00
CF 43	1	.437	11.10	.250	6.35	.450	11.43	CD-01
CF-44	1	.437	11.10	.325	8.26	.450	11.43	CD-02
CF-45	1	.437	11.10	.350	8.89	.450	11.43	CD-03
CF-46	1	.437	11.10	375	0.53	.450	11.43	CD-04
CF-47	2	.437	11.10	437	11.10	.450	11.43	CD-05
CF-50	2	.460	11.68	.460	11.88	450	11.43	CD-06

Pneumatic Bench Top Press for Crimping Ferrules #FCT-551. See page 4-103.

Hand Tool for Crimping Ferrules #FCT-552. See page 4-103.



D-subminiature Metal Shell Crimp and Poke, Right-Angle and Vertical PCB D*U Series



FEATURES	 Offered in 9, 15, 25, 37, and 50 position plugs and sockets 9, 15, and 25 positions). Available with gold flash or 30µin. gold plating. Offered with .120 mounting holes, optional 4-40 clinch nuts angle PCB connectors-mounting holes only). Approvals: UL Recognized - Files E170218 (UL1977) and E130965 (U. CSA Approved - File LR31996. See pages 4-5 thru 4-10 for standard dimensions, contact a mounting specifications. 	s, or dual float bushings (except right- L1863).
MATERIALS	Insulator Material: Glass-filled nylon (black), UL 94 V-O rated Connector Shell: Steel with zinc plating and yellow chromate finish or tin plating (grounding indents on plug) 4-40 Clinch Nut: Steel with cadmium plating and yellow chromate finish Dual Float Bushing: Stainless steel, passivated	
ENVIRCHMENTAL	Operating Temperature: -65°C to + 125°C Shock: 50G peak per MIL-STD-202, Method 213, Condition G Vibration: 12 cycles in three perpendicular directions @ 10-2000Hz, per MIL-STD-202, Method 204, Condition D Moisture Resistance: 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103	
ELECTRICAL	Withstanding Voltage: Minimum 1000V RMS @ sea level Current Rating: 5 Amps Contact Resistance: 2.7 milliohms maximum Insulation Resistance: 5000 megohms maximum (initial); 1000 megohms (minimum) after environmental testing	
MECHANICAL	Individual Contact Insertion and Separation Force (minimum/maximum): 0.7 oz./12 oz. Durability: 500 mating cycles	

4-26

D-subminiature Metal Shell Crimp and Poke D*U Series



- Machined contacts supplied loose with connector or can be ordered separately. Use with 20-24 AWG wire.
- Stamped Contacts (order separately) for use when ordering connector with contacts not included (-FO option). Use with 20-28 AWG wire.
 - Available in 10K reel.
 - Order reels of stamped contacts separately.

Materials

- Contact Material: Plug Brass (stamped) or copper alloy (machined). Socket Phosphor bronze (stamped) or copper alloy (machined).
- Contact Plating:
 - Stamped Plugs and Sockets: Gold flash or 30µin. gold and gold flash on the remainder. All over nickel.
 - Machined Plugs and Sockets: Gold flash or 30µin. gold. All over nickel.

Termination Tooling

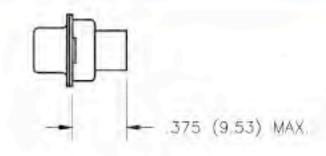
- Semi-Automatic Stripper Crimper for Stamped Contacts on 10K PC reels: #ESC-20-3. See page 4-102.
- Contact Insertion/Extraction: #CIET-20-HDB. See page 4-101.
- Loose Contact Crimp Tool:

Machined Contact - #M22520/2-01. See page 4-103. For Positioner as required see page 4-103.

Stamped Contacts #BT-20-HC see page 4-101. No positioner required.

D-subminiature Metal Shell Crimp and Poke D*U Series





Ordering Information

D*U Crimp and Poke Plugs

Zinc-Plated Shell with Yellow Chromate Finish

· · · · · · · · · · · · · · · · · · ·	Mounting Holes		4-40 CI	inch Nuts	Dual Float Bushings		
	Contacts	Without	Contacts	Without	Contacts	Without	
Position	Included	Contacts	Included	Contacts	Included	Contacts	
9	DEU-9P	DEU-9P-FO	DEUE-9-P	DEUE-9P-FO	DEUY-9P	DEUY-9P-FO	
15	DAU-15P	DAU-15P-FO	DAUE-15-P	DAUE-15-P-FO	DAUY-15P	DAUY-15P-FO	
25	DBU-25P	DBU-25P-FO	DBUE-25-P	DBUE-25P-FO	DBUY-25P	DBUY-25P-FO	
37	DCU-37P	DCU-37P-FO	DCUE-37-P	DCUE-37P-FO	DCUY-37P	DCUY-37P-FO	
50	DDU-50P	DDU-50P-FO	DDUE-50-P	DDUE-50P-FO	DDUY-50P	DDUY-50P-FO	

Tin-Plated Shell with Grounding Indents

	Mounti	ng Holes	4-40 Cli	nch Nuts	Dual Float Bushings		
Position	Contacts Included	Without Contacts	Contacts Included	Without Contacts	Contacts Included	Without Contacts	
9	DEU-9PTI	DEU-9PTI-FO	DEUE-9PTI	DEUE-9PTI-FO	DEUY-9PTI	DEUY-9PTI-FO	
15	DAU-15PTI	DAU-15PTI-FO	DAUE-15PTI	DAUE-15PTI-FO	DAUY-15PTI	DAUY-15PTI-FO	
25	DBU-25PTI	DBU-25PTI-FO	DBUE-25PTI	DBUE-25PTI-FO	DBUY-25PTI	DBUY-25PTI-FO	
37	DCU-37PTI	DCU-37PTI-FO	DCUE-37PTI	DCUE-37PTI-FO	DCUY-37PTI	DCUY-37PTI-FO	
50	DDU-50PTI	DDU-50PTI-FO	DDUE-50PTI	DDUE-50PTI-FO	DDUY-50PTI	DDUY-50PTI-FO	

D*U Crimp and Poke Sockets

Zinc-Plated Shell with Yellow Chromate Finish

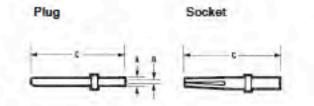
	Mounting Holes		4-40 C	linch Nuts	Dual Float Bushings	
Position	Contacts Included	Without Contacts	Contacts Included	Without Contacts	Contacts Included	Without Contacts
9	DEU-9S	DEU-9S-FO	DEUE-9S	DEUE-9S-FO	DEUY-9S	DEUY-9S-FO
15	DAU-15S	DAU-15S-FO	DAUE-15S	DAUE-15S-FO	DAUY-15S	DAUY-15S-FO
25	DBU-25S	DBU-25S-FO	DBUE-25S	DBUE-25S-FO	DBUY-25S	DBUY-25S-FO
37	DCU-37S	DCU-37S-FO	DCUE-37S	DCUE-37S-FO	DCUY-37S	DCUY-37S-FO
50	DDU-50S	DDU-50S-FO	DDUE-50S	DDUE-50S-FO	DDUY-50S	DDUY-50S-FO
/						

Tin-Plated Shell

	Mounting Holes		4-40 Cli	inch Nuts	Dual Float Bushings		
Position	Contacts Included	Without Contacts	Contacts Included	Without Contacts	Contacts Included	Without Contacts	
9	DEU-9ST	DEU-9ST-FO	DEUE-9ST	DEUE-9ST-FO	DEUY-9ST	DEUY-9ST-FO	
15	DAU-15ST	DAU-15ST-FO	DAUE-15ST	DAUE-15ST-FO	DAUY-15ST	DAUY-15ST-FO	
25	DBU-25ST	DBU-25ST-FO	DBUE-25ST	DBUE-25ST-FO	DBUY-25ST	DBUY-25ST-FO	
37	DCU-37ST	DCU-37ST-FO	DCUE-37ST	DCUE-37ST-FO	DCUY-37ST	DCUY-37ST-FO	
50	DDU-50ST	DDU-50ST-FO	DDUE-50ST	DDUE-50ST-FO	DDUY-50ST	DDUY-50ST-FO	



Machined Contacts · 20-24 AWG Wire



Dimensions

100 1	Wire		A	I	3	C	Max.
Description	AWG	in	mm	in	mm	in	mm
Pin	#20, 22, 24	.066	1.67	.045	1.14	.537	13.64
Socket	#20, 22, 24	.066	1.67	.045	1.14	.523	13.28

Ordering Information

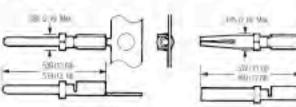
D*U Series Loose-Piece Machined Contacts

	Gold Flash	30µin. Gold
Pin	030-1952-000	030-1952-030
Socket	030-1953-000	030-1953-030

Stamped Contacts · 20-28 AWG Wire

Plug

Socket



Ordering Information

D*U Series Stamped Contacts on 10K Reels

_	Gold Flash	30µin. Gold	
Pin	BGL-1964-20Pf	D110238-034	_
Socket	BOL 1063 203	0110238-035	_

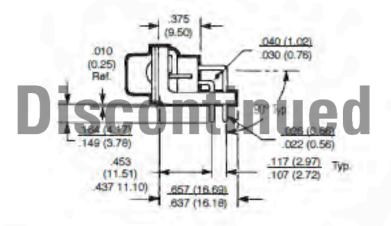
D-subminiature Metal Shell Right-Angle Dip Solder PCB D*U Series



- .445" footprint.
- .024" contact diameter.

Materials

- Contact Material: Socket Copper alloy (machined), Plug Brass (machined).
- · Contact Plating: Gold flash or 30µin. gold. All over nickel.
- · Mounting bracket: Black nylon. Can be removed if necessary.



Ordering Information

D*U Right-Angle Plugs

	Zinc-Plated She	Il with Yellow Chromate Finish	Tin-Plated Shell with	Grounding Indents
Positions	Gold Flash	30pin. Gold	Gold Flash	30pin. Gold
9	DEU-9PAD	DEU-9PAD-30	DEU-9PADTI	DEU-9PADTI-30
15	DAU-15PAD	DAU-15PAD-30	DAU-15PADTI	DAU-15PADTI-30
25	DBU-25PAD	DBU-25PAD-30	DBU-25PADTI	DBU-25PADTI-30

D*U Right Angle Sockete

	Zinc-Plated She	Il with Yellow Chromate Finish	Tin-Plate	
Positions	Gold Flash	30pin. Gold	Gold Flash	30pin. Gold
9	DEU-9SAD	DEU-9SAD-30	DEU-9SADT	DEU-9SADT-30
15	DAU-15SAD	DAU-15SAD-30	DAU-15SADT	DAU-15SADT-30
25	DBU-25SAD	DBU-25SAD-30	DBU-25SADT	DBU-25SADT-30

D-subminiature Metal Shell Vertical Dip Solder PCB D*U Series



- .024" contact diameter.
- Longer rear insulator provides integral standoff from PCB.

Materials

- · Contact Material: Plug Brass (machined), Socket Copper alloy (machined).
- Contact Plating: Gold flash or 30µin. gold. All over nickel.

Discontinued 3/5 (0.50) - 3/5 (0.50) - 483 (12.27) - 483 (12.27)

Ordering Information

Vertical Plugs

	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DEU OPBF	DEU OPBF-30	DEUE OPBF	DEUE-9PBF-30	DEUX-9PBF	DEUX-0PBF-30
15	DAU-15PBF	DAU-15PBF-30	DAUE-15PBF	DAUE-15PBF-30	DAUY-15PBF	DAUY-15PBF-30
25	DBU-25PBF	DBU-25PBF-30	DBUE-25PBF	DBUE-25PBF-30	DBUY-25PBF	DBUY-25PBF-30
37	DCU-37PBF	DCU-37PBF-30	DCUE-37PBF	DCUE-37PBF-30	DCUY-37PBF	DCUY-37PBF-30
50	DDU-50PBF	DDU-50PBF-30	DDUE-50PBF	DDUE-50PBF-30	DDUY-50PBF	DDUY-50PBF-30

Tin-Plated Shell with Grounding Indents

Mounting Holes			4 40 Cline		Dual Float Buchinge	
Positions	Gold Flash	30pin. Gold	Gold Flash	30µin. Gold	Gold Flash	30pin. Gold
8	DEU-9PBFTI	DEU-9PBFTI-30	DEUE-9PBFTI	DEUE-9PBFTI-30	DEUY-9PBFTI	DEUY-9PBFTI-30
15	DAU-15PBFTI	DAU-15PBFTI-30	DAUE-15PBFTI	DAUE-15PBFTI-30	DAUY-15PBFTI	DAUX-15PBFTI-30
25	DBU-25PBFTI	DBU-25PBFTI-30	DBUE-25PBFTI	DBUE 25PBFTI-30	DBUY-25PBFTI	DBUY-25PBFTI-30
37	DCU-37PBFTI	DCU-37PBFTI-30	DOUE-37PBFTI	DCUE-37PBFTI-30	DCUY-37PBFTI	DCUY-37PBFTI-30
50	DDU-50PBETI	DDU-50PBETI-30	DDUE-50PBETL	DDUE-50PBETI-30	DDUY-50PBETL	DDUY-50PBFTI-30

Cinch

Ordering Information (Cont'd)

Vertical Sockets

Zinc-Plated Shell with Yellow Chromate Finish

	Mounting Holes			nch Nuts	Dual Float Bushings	
Positions	Gold Flash	30pin. Gold	Gold Flash	30pin. Gold	Gold Flash	30pin. Gold
9	DEU-9SBF	DEU-9SBF-30	DEUE-9SBF	DEUE-9SBF-30	DEUY-9SBF	DEUY-9SBF-30
15	DAU-15SBF	DAU-15SBF-30	DAUE-15SBF	DAUE-15SBF-30	DAUY-15SBF	DAUY-15SBF-30
25	DBU-25SBF	DBU-2558F-30	DBUE-25SBF	DEUE-25SEF-30	DBUY-25SBF	DBUY-25SBF-30
37	DCU-37SBF	DCU-37SBF-30	DOUE-37SBF	DOUE-37SBF-30	DCUY-37SBF	DCUY-37SBF-30
50	DDU-50SBF	DDU-50SBF-30	DDUE-50SBF	DDUE 50SBF 30	DDUY-50SBF	DDUY-50SBF-30

Tin Plated Shell

	Mounting Holes		4-40 Clin	ch Nuts	Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DEU-9SBFT	DEU-9SBFT-30	DEUE-9SBFT	DEVE-9SBFT-30	DEUY-9SBFT	DEUY-9SBFT-30
15	DAU-15SBFT	DAU-15SBFT-30	DAUE-15SBFT	DAUE-15SBFT-30	DAUY-15SBFT	DAUY-15SBFT-30
25	DBU-25SBFT	DBU-25SBFT-30	DBUE-25SBFT	DBUE-25SBFT-30	DBUY-25SBFT	DBUY-25SBFT-30
37	DCU-37SBFT	DCU-37SBFT-30	DCUE-37SBFT	DCUE-37SBFT-30	DCUY-37SBFT	DCUY-37SBFT-30
50	DDU-50SBFT	DDU-50SBFT-30	DDUE-50SBFT	DDUE-50SBFT-30	DDUY-50SBFT	DDUY-50SBFT-30

D-subminiature Metal Shell and All Plastic Solder Cup and IDC

T* Series



FEATURES	 Offered in 9, 15, 25, and 37 position plugs and sockets. Available in Solder Cup and IDC (insulation displacement) terminal Offered with .120 mounting holes. Approvals: UL Recognized - Files E170218 (UL1977) and E130965 (UL186 CSA Approved - File LR31996. See pages 4-5 thru 4-10 for standard dimensions, contact arrange mounting specifications. 	3).
MATERALS	Insulator Material: Glass-filled polyester (black), UL 94 V-O rated Connector Shell: Steel with zinc plating and yellow chromate finish or tin plating (grounding indents on plug) Contact Material: Phosphor bronze (stamped) Contact Plating: Gold flash or 30µin. gold in mating area and gold flash on the remainder. All over nickel.	
ENVIRONMENTAL	Operating Temperature: -65°C to + 125°C Shock: 50G peak per MIL-STD-202, Method 213, Condition G Vibration: 12 cycles in three perpendicular directions @ 10-2000Hz, per MIL-STD-202, Method 204, Condition D Moisture Resistance: 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103	
ELECTRICAL	Withstanding Voltage: Minimum 1000V RMS @ sea level Current Rating: 3 Amps Contact Resistance: 2.7 milliohms maximum Insulation Resistance: 5000 megohms maximum (initial); 1000 megohms (minimum) after environmental testing	
MECHANICAL	Individual Contact Insertion and Separation Force (minimum/maximum): 0.7 oz./12 oz. Durability: 500 mating cycles	Typicoriuth 1

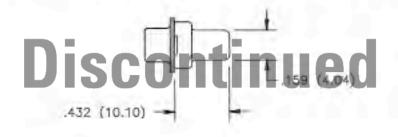
Call Toll Free: 1 (800) 323-9612

D-subminiature Metal Shell Solder Cup for Discrete Cable Wire T* Series



Solder channels between barriers permit single-pass soldering of each row without solder bridging.

Will accommodate up to 22 AWG wire.



Ordering Information

Solder Cup Plugs

		ated Shell	Tin-Plated Shell with Grounding Indents		
	with Yellow (Chromate Finish			
Positions	Gold Flash	30pin. Gold	Gold Flash	30pin. Gold	
9	TE-9PS	TE-9PS-30	TE-9PTIS	TE-9PTIS-30	
15	TA-15PS	TA-15PS-30	TA-15PTIS	TA-15PTIS-30	
25	TB-25PS	TB-25PS-30	TB-25PTIS	TB-25PTIS-30	
37	TG-37PS	TC-37PS-30	TC-37PTIS	TC-37PTIS-30	

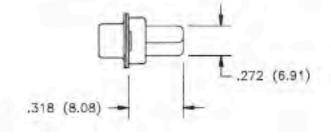
Solder Cup Sockets

with Vallow C	hromata Finish	Tin-Plated Shell		
Gold Flash	30µin. Gold	Gold Flash	30pin. Gold	
TE-9SS	TE-955-30	TE-9STS	TE-9STS-30	
TA-1555	TA-1555-30	TA-15STS	TA-15STS-30	
TB-2555	TB-2555-30	TB-25STS	TB-25STS-30	
TC-37SS	TC-375S-30	TC-37STS	TC-37STS-30	
	with Yellow C Gold Flash TE-9SS TA-15SS TB-25SS	Gold Flash 30pin. Gold TE-9SS TE-9SS-30 TA-15SS TA-15SS-30 TB-25SS TB-25SS-30	With Yellow Chromate Finish Gold Flash Gold Flash Gold Flash 30pin. Gold Gold Flash TE-9SS TE-9SS-30 TE-9STS TA-15SS TA-15SS-30 TA-15STS TB-25SS TB-25SS-30 TB-25STS	

D-subminiature Metal Shell IDC for Discrete Cable Wire T* Series



Will accommodate 24-26 AWG solid or stranded PVC wire.



Ordering Information

IDC Plugs

	Zinc-P	ated Shell	Tin-Plated Shell			
	with Yellow (Chromate Finish	with Grounding Indents			
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold		
9	TE-9PSH	TE-9PSH-30	TES-9PTI	TES-9PTI-30		
15	TA-15PSH	TA-15PSH-30	TAS-15PTI	TAS-15PTI-30		
25	TB-25PSH	TB-25PSH-30	TBS-25PTI	TBS-25PTI-30		
37	TC-37PSH	TC-37PSH-30	TCS-37PTI	TCS-37PTI-30		

IDC Sockets

	Zinc-Pl	ated Shell	Tin-Plated Shell		
Positions	with Yellow (Gold Flash	Chromate Finish 30µin. Gold	Gold Flash	30µin. Gold	
9	TE-9SSH	TE-9SSH-30	TES-9ST	TES-9ST-30	
15	TA-15SSH	TA-15SSH-30	TAS-15ST	TAS-15ST-30	
25	TB-25SSH	TB-25SSH-30	TBS-25ST	TBS-25ST-30	
37	TC-37SSH	TC-37SSH-30	TCS-37ST	TCS-37ST-30	

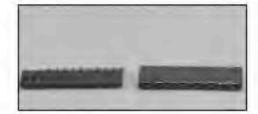
D-subminiature Metal Shell IDC for Discrete Cable Wire T* Series

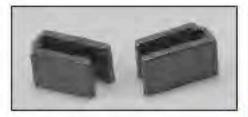


- Auto-Clinch D Semi-Automatic Termination Tool #ACD-432: See page 4-100.
- Certi-Clinch D Manual Termination Tool #SD-CCWN: For 24-28 AWG wire: See page 4-100.
- Uni-Clinch D Single-Wire Hand Insertion Tool #SD-UC: See page 4-100.
- Super D Manual Stay Band Tool #SD-MSBT: See page 4-100.
- · Optional strain relief covers for connectors when backshell is not required.

Ordering Information

Catalog No.
SSD-WC9
SSD-WC15
SSD-WC25
SSD-WC37





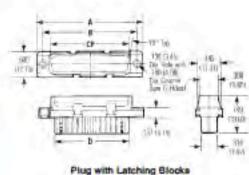
· One-piece cover for 9 contact size. Order one per connector. Two-piece cover for other sizes. Order two per connector.

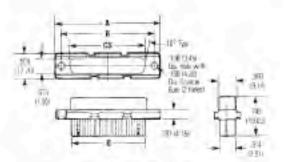
· Cover fits both plug and socket.

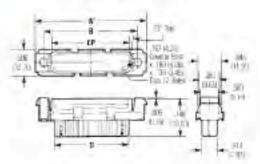
D-subminiature All-Plastic IDC for Discrete Cable Wire T* Series



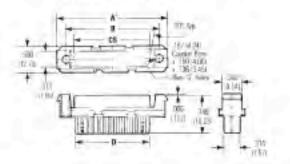
- For use only with SDH Series Gray Backshell on pages 4-89 thru 4-90.
- Offered in 9, 15, 25, and 37 position plugs and sockets.
- Connector will accommodate 24-28 AWG wire.
- Offered with plain flanges and .120 mounting holes, threaded bushings, latch blocks, or latch blocks and threaded bushings.
- Auto-Clinch D Semi-Automatic Termination Tool #ACD-432: See page 4-100.
- Certi-Clinch D Manual Termination Tool #SD-CC for 24-28 AWG wire: See page 4-100.
- Uni-Clinch D Single-Wire Hand Insertion Tool #SD-UC: See page 4-100.
- Super D Manual Stay Band Tool #SD-MSBT: See page 4-100.







Socket with Latching Blocks



Dimensions

Sec. 1	A		A A B		CP		CS		D			
Positions	in	mm										
9	1.209	30.71	1.309	33.25	.984	24.99	.668	16.96	.642	16.31	.592	15.04
15	1.536	39.01	1.636	41.55	1.312	33.32	.995	25.28	.970	24.64	.918	23.31
25	2.079	52.81	2.179	55.35	1.852	47.04	1.535	38.99	1.512	38.40	1.462	37.13
37	2.724	69.19	2.824	71.73	2.500	63.50	2.183	55.45	2.158	54.81	2.114	53.70

Ordering Information

IDC All-Plastic Plugs

Plain Flange

	Mountin	ig Holes	4-40 Threaded Bushings		
Positions	Gold Flash 30pin. Gold		Gold Flash	30pin. Gold	
9	TE-9P	TE-9P-30	TE-9PTB	TE-9PTB-30	
15	TA-15P	TA-15P-30	TA-15PTB	TA-15PTB-30	
25	7FB-25P	TB-25P-30	TB-25PTB	TB-25PTB-30	
37	TC-37P	TC-37P-30	TC-37PTB	TC-37PTB-30	

Flange with Latch Block

Positions	Mountin	ng Holes	4-40 Threaded Bushings		
	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	
9	TE-9PLB	TE-9PLB-30	TE-9PLB-1	TE-OPLB-1-30	
15	TA-15PLB	TA-15PLB-30	TA-15PLB-1	TA-15PLB-1-30	
25	TB-25PLB	TB-25PLB-30	TB-25PLB-1	TB-25PLB-1-30	
37	TC-37PLB	TC-37PLB-30	TC-37PLB-1	TC-37PLB-1-30	

IDC All-Plastic Sockets

Plain Flange

Positions	Mounting Holee		4 40 Threaded Bushings	
	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	TE-9S	TE-9S-30	TE-9STB	TE-9STB-30
15	TA-15S	TA-155-30	TA-15STB	TA-15STB-30
25	TB-25S	TB-255-30	TB-25STB	TB-25STB-30
37	TG-375	TC-375-30	TC-37STB	TG-37STB-30

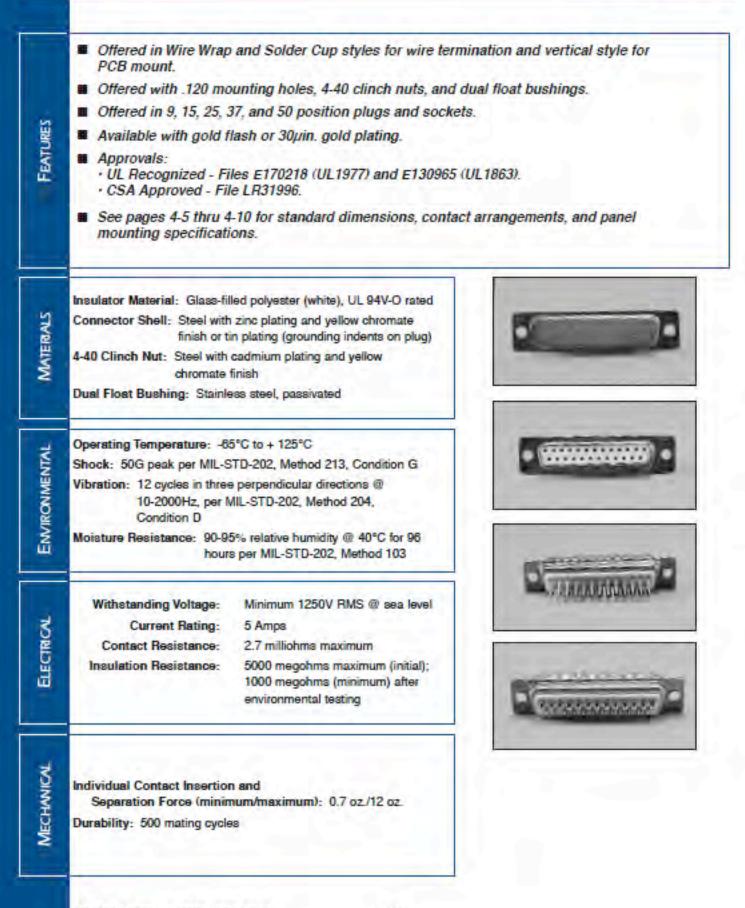
Flange with Latch Block

Positions	Mounting Holes		4-40 Threaded Bushings	
	Gold Flash	30µin. Gold	Gold Flash	30prin. Gold
9	TE-9SLB	TE-9SLB-30	TE-9SLB-1	TE-9SLB-1-30
15	TA-15SLB	TA-15SLB-30	TA-15SLB-1	TA-15SLB-1-30
25	TB-25SLB	TB-25SLB-30	TB-25SLB-1	TB-25SLB-1-30
37	TC-37SLB	TC-37SLB-30	TC-37SLB-1	TC-37SLB-1-30



D-subminiature Metal Shell Solder Cup, Vertical PCB Mount, and Wire Wrap Basic D Series





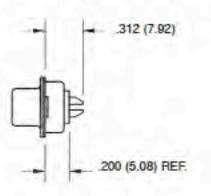
D-subminiature Metal Shell Solder Cup Basic D Series



- Available with stamped or machined contacts.
- Will accommodate up to 20 AWG wire.

Materials

- Contact Material: Copper Alloy
- Contact Plating:
 - Stamped contacts with gold flash or 30µin. gold in mating area, gold flash or tin/lead on remainder. All over nickel.
 - Screw machine contacts with gold flash or 30µin. gold. All over nickel.



Ordering Information

Solder Cup Plugs

Zinc-Plated Shell with Yellow Chromate Finish

Stamped Contact with Gold Flash in Solder Cup

Contraction of the local sectors of the local secto	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9P	DE-9P-30	DEE-9P	DEE-9P-30	DEY-9P	DEY-9P-30
15	DA-15P	DA-15P-30	DAE-15P	DAE-15P-30	DAY15P	DAY-15P-30
25 37	DB-25P	DB-25P-30	DBE-25P	DBE-25P-30	DBY-25P	DBY-25P-30
37	DC-37P	DC-37P-30	DCE-37P	DCE-37P-30	DCY-37P	DCY-37P-30
50	DD-50P	DD-50P-30	DDE-50P	DDE-50P-30	DDY-50P	DDY-50P-30

Stamped Contact with Tin/Lead in Solder Cup

Mounting Holes			4-40 Cli	nch Nuts	Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9P-II	DE-9P-II-30	DEE-9P-II	DEE-9P-II-30	DEY-9P-II	DEY-9P-II-30
15	DA-15P-II	DA-15P-II-30	DAE-15P-II	DAE-15P-II-30	DAY-15P-II	DAY-15-PII-30
25	DB-25P-11	DB-25P-II-30	DBE-25P-II	DBE-25P-II-30	DBY-25P-II	DBY-25-PII-30
37	DC-37P-II	DC-37P-II-30	DCE-37P-II	DCE-37P-II-30	DCY-37-P-II	DCY-37-PII-30
50	DD-50P-II	DD-50P-II-30	DDE-50P-II	DDE-50P-II-30	DDY-50-P-II	DDY-50-PII-30

Screw Machine Contact

	Mounting Holes		4-40 Clinch Nute		Dual Float Bushings	
Positions	Gold Flash	30pin. Gold	Gold Flash	30pin. Gold	Gold Flash	30µin. Gold
- 0	DE-9P-SM	DE-9P-SM-30	DEE-9P-SM	DEE-9P-SM-30	BEY-9P-SM	DEY-9P-SM-30
15	DA-15P-SM	DA-15P-SM-30	DAE-15P-SM	- DAE-15P-SM-30	DAY-15P-SM	DAY-15P-SM-30
25	DB-25P-SM	DB-25P-SM-30	DBE-25P-SM	DBE-25P-SM-30	DBY-25P-SM	DBY-25P-SM-30
37	DC-37P-SM	DC 37P-SM-30	DCE 37P SM	DK2= 37/P.SM 30	DCY37P-SM	DCY 37P SM 30
50	DD-50P-SM	DD-50P-SM-30	DDE-50P-SM	DDE-50P-SM-30	DOV-50P-SM	DDY-50P-SM-30



Ordering Information

Solder Cup Plugs (Cont'd)

Tin-Plated Shell with Grounding Indents

Stamped Contact with Gold Flash in Solder Cup

	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9PTI	DE-9PTI-30	DEE-0PTI	DEE-9PTI-30	DEY-9PTI	DEY-9PTI-30
15	DA-15PTI	DA-15PTI-30	DAE-15PTI	DAE-15PTI-30	DAY-15PTI	DAY-15PTI-30
25	DB-25PTI	DB-25PTI-30	DBE-25PTI	DBE-25PTI-30	DBY-25PTI	DBY-25PTI-30
37	DC-37PTI	DC-37PTI-30	DCE-37PTI	DCE-37PTI-30	DCY-37PTI	DCY-37PTI-30
37 50	DD-50PTI	DD-50PTI-30	DDE-50PTI	DDE-50PTI-30	DDY-50PTI	DDY-50PTI-30

Stamped Contact with Tin/Lead in Solder Cup

Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
DE-9PTI-II	DE-9PTI-II-30	DEE-9PTI-II	DEE-0PTI-II-30	DEY-9PTI-II	DEY-9PTI-II-30
DA-15PTI-II	DA-15PTI-II-30	DAE-15PTI-II	DAE-15PTI-II-30	DAY-15PTI-II	DAY-15PTI-II-30
DB-25PTI-II	DB-25PTI-II-30	DBE-25PTI-II	DBE-25PTI-II-30	DBY-25PTI-II	DBY-25PTI-II-30
DC-37PTI-II	DC-37PTI-II-30	DCE-37PTI-II	DCE-37PTI-II-30	DCY-37PTI-II	DCY-37PTI-II-30
DD-50PTI-II	DD-50PTI-II-30	DDE-50PTI-II	DDE-50PTI-II-30	DDY-50PTI-II	DDY-50PTI-II-30
	Gold Flash DE-9PTI-II DA-15PTI-II DB-25PTI-II DC-37PTI-II	Gold Flash 30µin. Gold DE-9PTI-II DE-9PTI-II-30 DA-15PTI-II DA-15PTI-II-30 DB-25PTI-II DB-25PTI-II-30 DC-37PTI-II DC-37PTI-II-30	Gold Flash 30µin. Gold Gold Flash DE-9PTI-II DE-9PTI-II-30 DEE-9PTI-II DA-15PTI-II DA-15PTI-II-30 DAE-15PTI-II DB-25PTI-II DB-25PTI-II-30 DBE-25PTI-II DC-37PTI-II DC-37PTI-II-30 DCE-37PTI-II	Gold Flash 30µin. Gold Gold Flash 30µin. Gold DE-9PTI-II DE-9PTI-II-30 DEE-9PTI-II DEE-9PTI-II-30 DA-15PTI-II DA-15PTI-II-30 DAE-15PTI-II DAE-15PTI-II-30 DB-25PTI-II DB-25PTI-II-30 DBE-25PTI-II DBE-25PTI-II-30 DC-37PTI-II DC-37PTI-II-30 DCE-37PTI-II DCE-37PTI-II-30	Gold Flash 30µin. Gold Gold Flash 30µin. Gold Gold Flash DE-9PTI-II DE-9PTI-II DE-9PTI-II DE-9PTI-II DE-9PTI-II DE-9PTI-II DA-15PTI-II DA-15PTI-II DA-15PTI-II DAE-15PTI-II DAE-15PTI-II DAY-15PTI-II DB-25PTI-II DB-25PTI-II DB-25PTI-II DBE-25PTI-II DBY-25PTI-II DC-37PTI-II DC-37PTI-II DCE-37PTI-II DCE-37PTI-II DCY-37PTI-II

Screw Machine Contact

	Mounting Holes		4-40 Clinch Nute		Duel Floet Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30prin. Gold	Gold Flash	30µin. Gold
9	DE-9PTI-SM	DE-OPTI-SM-30	DEE-9PTI-SM	DEE-9PTI-SM-30	DEY#PTI-SM	DEY-9PTI-SM-30
15	DA-15PTI-SM	DA-15PTI-SM-30	DAE 15PTI-SM	DAE-15PTI-SM-30	DAY 15PTI-SM	DAY-15PTI-SM-30
25	DB-25PTI-SM	DB-25FTT-SM-30	DBE-25PTI-SM	DBE-267TI SM-30	DEV 25PTI SM	DBY 25PTI-SM 30
37	DC-37PTI-SM	DC 37PTT SM 30	DOE 37PTESM	INTE BUTTI GM 20	OCY 37PTI-SM	DCY-37PTI-SM-30
50	DD-50PTI-SM	DD-50PTI-SM-30	DDE-50PTI-SM	DDE 50PTI SM 30	DDY-50PTI-SM	DDV-50PTI-SM-30

Cinch

Ordering Information

Solder Cup Sockets

Zinc-Plated Shell with Yellow Chromate Finish

Stamped Contact with Gold Flash in Solder Cup

Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
DE-9S	DE-9S-30	DEE-9S	DEE-9S-30	DEY-9S	DEY-9S-30
DA-15S	DA-15S-30	DAE-15S	DAE-15S-30	DAY-15S	DAY-15S-30
DB-25S	DB-25S-30	DBE-25S	DBE-25S-30	DBY-25S	DBY-25S-30
DC-37S	DC-37S-30	DCE-37S	DCE-37S-30	DCY-37S	DCY-37S-30
DD-50S	DD-50S-30	DDE-50S	DDE-50S-30	DDY-50S	DDY-50S-30
	Gold Flash DE-9S DA-15S DB-25S DC-37S	Gold Flash 30µin. Gold DE-9S DE-9S-30 DA-15S DA-15S-30 DB-25S DB-25S-30 DC-37S DC-37S-30	Gold Flash 30µin. Gold Gold Flash DE-9S DE-9S-30 DEE-9S DA-15S DA-15S-30 DAE-15S DB-25S DB-25S-30 DBE-25S DC-37S DC-37S-30 DCE-37S	Gold Flash 30µin. Gold Gold Flash 30µin. Gold DE-9S DE-9S-30 DEE-9S DEE-9S-30 DA-15S DA-15S-30 DAE-15S DAE-15S-30 DB-25S DB-25S-30 DBE-25S DBE-25S-30 DC-37S DC-37S-30 DCE-37S DCE-37S-30	Gold Flash 30µin. Gold Gold Flash 30µin. Gold Gold Flash DE-9S DE-9S-30 DEE-9S DEE-9S-30 DEY-9S DA-15S DA-15S-30 DAE-15S DAE-15S-30 DAY-15S DB-25S DB-25S-30 DBE-25S DBE-25S-30 DBY-25S DC-37S DC-37S-30 DCE-37S DCE-37S-30 DCY-37S

Stamped Contact Tin/Lead in Solder Cup

1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Mounting Holes		4-40 Cli	4-40 Clinch Nuts		at Bushings
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9S-II	DE-9S-II-30	DEE-9S-II	DEE-9S-II-30	DEY-9S-II	DEY-9S-II-30
15	DA-155-II	DA-15S-II-30	DAE-15S-II	DAE-15S-II-30	DAY-15S-II	DAY-15S-II-30
25	DB-25S-	DB-25S-II-30	DBE-25S-II	DBE-25S-II-30	DBY-25S-II	DBY-25S-II-30
37	DC-37S-II	DC-37S-II-30	DCE-37S-II	DCE-37S-II-30	DCY-37S-II	DCY-37S-II-30
50	DD-50S-II	DD-50S-II-30	DDE-50S-II	DDE-50S-II-30	DDY-50S-II	DDY-50S-11-30

Screw Machine Contact

	Mounting Holes		4-40 Clin	ch Nute	Dual Float Bushings	
Positions	Gold Flash	30prin. Gold	Gold Flash	30µin. Gold	_ Gold Flash	30prin. Gold
9	DE 9S SM	DE-05-SM-30	DEE OS SIL	DEE OS SM 30	DEV 0S-SM	DEV 0S SM 30
15	DA-15S-SM	DA 155 SM 30	DAE 165-SM	DAE-155-514-30	DAY-155-SM	DAV-155-SM-30
25	DB-255-SM	DB 255 SM 30	DBE-25S-SM	DBE-255-SM-30	DBY-25S-SM	DBV-25S-SM-30
37	DC-375-SM	DC-375-SM-30	DCE-37S-SM	DCE-37S-SM-30	DCY-375-SM	DCY-37S-SM-30
50	DD 50S-SM	DD 50S SM 30	DDE-50S-SM	DDE-50S-SM-30	DDV-50S-SM	DDV-50S-SM-30

Tin-Plated Shell

Stamped Contact with Gold Flash in Solder Cup

	Mounting Holes		4-40 Cli	nch Nuts	Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9ST	DE-9ST-30	DEE-9ST	DEE-9ST-30	DEY-9ST	DEY-9ST-30
15	DA-15ST	DA-15ST-30	DAE-15ST	DAE-15ST-30	DAY-15ST	DAY-15ST-30
25	DB-25ST	DB-25ST-30	DBE-25ST	DBE-25ST-30	DBY-25ST	DBY-25ST-30
37	DC-37ST	DC-37ST-30	DCE-37ST	DCE-37ST-30	DCY-37ST	DCY-37ST-30
50	DD-50ST	DD-50ST-30	DDE-50ST	DDE-50ST-30	DDY-50ST	DDY-50ST-30

Stamped Contact with Tin/Lead in Solder Cup

C	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9ST-II	DE-9ST-II-30	DEE-9ST-II	DEE-9ST-II-30	DEY-9ST-II	DEY-9ST-II-30
15	DA-15ST-II	DA-15ST-II-30	DAE-15ST-II	DAE-15ST-II-30	DAY-15ST-II	DAY-15ST-II-30
25	DB-25ST-II	DB-25ST-II-30	DBE-25ST-II	DBE-25ST-II-30	DBY-25ST-II	DBY-25ST-II-30
37	DC-37ST-II	DC-37ST-II-30	DCE-37ST-II	DCE-37ST-II-30	DCY-37ST-II	DCY-37ST-II-30
50	DD-50ST-II	DD-50ST-II-30	DDE-50ST-II	DDE-50ST-II-30	DDY-50ST-II	DDY-50ST-II-30

Screw Machine Contact

	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30pin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9ST-SM	DE-9ST-SM-30	DEE-9ST-SM	DEE-9ST-SM-30	DEY-9ST-SM	DEY-9ST-SM-30
15	DA-15ST-SM	DA-1557-SM-30	DAE-155T-SM	DAE 155T-SM-30	DAY-15ST-SM	DAY-15ST-SM-30
25	DB-25ST-SM	DB-25ST-SM-30	DBE-25ST-SM		DBY-25ST-SM	DBY-25ST-SM-30
37	DC-37ST-SM	DC-37ST-SM-30	DCE-37ST-SM	DCE-37ST-SM-30	DCY-37ST-SM	DCY-37ST-SM-30
50	DD-50ST-SM	00-50ST-SM-30	DDE-50ST-SM	DDE-50ST-SM-30	DDY-50ST-SM	DDY-50ST-SM-30

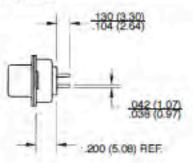
D-subminiature Metal Shell Vertical Dip Solder PCB Basic D Series



- .040" contact diameter.
- Short rear insulator provides low profile on PCB.
- Offered with .120 mounting holes, dual float bushings, or optional 4-40 clinch nuts.

Materials

- · Contact Material: Socket Phosphor bronze (machined), Plug Brass (machined).
- Contact Plating: Gold flash or 30µin. gold over nickel.



Ordering Information

Vertical PCB Plugs

Zinc-Plated Shell with Yellow Chromate Finish

Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
DE-9PV	DE-9PV-30	DEE-9PV	DEE-9PV-30	DEY-9PV	DEY-9PV-30
DA-15PV	DA-15PV-30	DAE-15PV	DAE-15PV-30	DAY-15PV	DAY-15PV-30
DB-25PV	DB-25PV-30	DBE-25PV	DBE-25PV-30	DBY-25PV	DBY-25PV-30
DC-37PV	DC-37PV-30	DCE-37PV	DCE-37PV-30	DCY-37PV	DCY-37PV-30
DD-50PV	DD-50PV-30	DDE-50PV	DDE-50PV-30	DCY-50PV	DDY-50PV-30
	Gold Flash DE-9PV DA-15PV DB-25PV DC-37PV	DE-9PV DE-9PV-30 DA-15PV DA-15PV-30 DB-25PV DB-25PV-30 DC-37PV DC-37PV-30	Gold Flash 30µin. Gold Gold Flash DE-9PV DE-9PV-30 DEE-9PV DA-15PV DA-15PV-30 DAE-15PV DB-25PV DB-25PV-30 DBE-25PV DC-37PV DC-37PV-30 DCE-37PV	Gold Flash 30µin. Gold Gold Flash 30µin. Gold DE-9PV DE-9PV-30 DEE-9PV DEE-9PV-30 DA-15PV DA-15PV-30 DAE-15PV DAE-15PV-30 DB-25PV DB-25PV-30 DBE-25PV DBE-25PV-30 DC-37PV DC-37PV-30 DCE-37PV DCE-37PV-30	Gold Flash 30µin. Gold Gold Flash 30µin. Gold Gold Flash DE-9PV DE-9PV-30 DEE-9PV DE-9PV-30 DEY-9PV DA-15PV DA-15PV-30 DAE-15PV DAE-15PV-30 DAY-15PV DB-25PV DB-25PV-30 DBE-25PV DBE-25PV-30 DBY-25PV DC-37PV DC-37PV-30 DCE-37PV DCE-37PV-30 DCY-37PV

Tin-Plated Shell with Grounding Indents

100	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9PVTI	DE-9PVTI-30	DEE-9PVTI	DEE-9PVTI-30	DEY-9PVTI	DEY-9PVTI-30
15	DA-15PVTI	DA-15PVTI-30	DAE-15PVTI	DAE-15PVTI-30	DAY-15PVTI	DAY-15PVTI-30
25	DB-25PVTI	DB-25PVTI-30	DBE-25PVTI	DBE-25PVTI-30	DBY-25PVTI	DBY-25PVTI-30
37	DC-37PVTI	DC-37PVTI-30	DCE-37PVTI	DCE-37PVTI-30	DCY-37PVTI	DCY-37PVTI-30
50	DD-50PVTI	DD-50PVTI-30	DDE-50PVTI	DDE-50PVTI-30	DCY-50PVTI	DDY-50PVTI-30

Vertical PCB Sockets

Zinc-Plated Shell with Yellow Chromate Finish

	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9SV	DE-9SV-30	DEE-9SV	DEE-9SV-30	DEY-9SV	DEY-9SV-30
15	DA-15SV	DA-15SV-30	DAE-15SV	DAE-15SV-30	DAY-15SV	DAY-15SV-30
25	DB-25SV	DB-25SV-30	DBE-25SV	DBE-25SV-30	DBY-25SV	DBY-25SV-30
37	DC-37SV	DC-37SV-30	DCE-37SV	DCE-37SV-30	DCY-37SV	DCY-37SV-30
50	DD-50SV	DD-50SV-30	DDE-50SV	DDE-50SV-30	DCY-50SV	DDY-50SV-30

Tin-Plated Shell

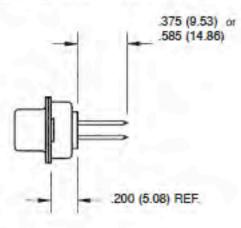
1.00	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9SVT	DE-9SVT-30	DEE-9SVT	DEE-9SVT-30	DEY-9SVT	DEY-9SVT-30
15	DA-15SVT	DA-15SVT-30	DAE-15SVT	DAE-15SVT-30	DAY-15SVT	DAY-15SVT-30
25	DB-25SVT	DB-25SVT-30	DBE-25SVT	DBE-25SVT-30	DBY-25SVT	DBY-25SVT-30
37	DC-37SVT	DC-37SVT-30	DCE-37SVT	DCE-37SVT-30	DCY-37SVT	DCY-37SVT-30
50	DD-50SVT	DD-50SVT-30	DDE-50SVT	DDE-50SVT-30	DDY-50SVT	DDY-50SVT-30



- Reliable wire wrap termination.
- Two contact lengths: 375" or 585".
- .025" square contact tails.

Materials

- · Contact Material: Copper alloy (machined).
- · Contact Plating: Gold flash or 30µin. gold. All over nickel.



Ordering Information

Wire Wrap Plugs

.375" Tail Length

Zinc-Plated Shell with Yellow Chromate Finish

Positions	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9P-F179	DE-9P-F179-30	DEE-9P-F179	DEE-9P-F179-30	DEY-9P-F179	DEY-9P-F179-30
15	DA-15P-F179	DA-15P-F179-30	DAE-15P-F179	DAE-15P-F179-30	DAY-15P-F179	DAY-15P-F179-30
25	DB-25P-F179	DB-25P-F179-30	DBE-25P-F179	DBE-25P-F179-30	DBY-25P-F179	DBY-25P-F179-30
37	DC-37P-F179	DC-37P-F179-30	DCE-37P-F179	DCE-37P-F179-30	DCY-37P-F179	DCY-37P-F179-30
50	DD-50P-F179	DD-50P-F179-30	DDE-50P-F179	DDE-50P-F179-30	DDY-50P-F179	DDY-50P-F179-30

Tin-Plated Shell with Grounding Indents

1.0	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9PTI-F179	DE-9PTI-F179-30	DEE-9PTI-F179	DEE-9PTI-F179-30	DEY-9PTI-F179	DEY-9PTI-F179-30
15	DA-15PTI-F179	DA-15PTI-F179-30	DAE-15PTI-F179	DAE-15PTI-F179-30	DAY-15PTI-F179	DAY-15PTI-F179-30
25	DB-25PTI-F179	DB-25PTI-F179-30	DBE-25PTI-F179	DBE-25PTI-F179-30	DBY-25PTI-F179	DBY-25PTI-F179-30
37	DC-37PTI-F179	DC-37PTI-F179-30	DCE-37PTI-F179	DCE-37PTI-F179-30	DCY-37PTI-F179	DCY-37PTI-F179-30
50	DD-50PTI-F179	DD-50PTI-F179-30	DDE-50PTI-F179	DDE-50PTI-F179-30	DDY-50PTI-F179	DDY-50PTI-F179-30

Cinch

Ordering Information

Wire Wrap Plugs (Cont'd)

.585" Tail Length

Zinc-Plated Shell with Yellow Chromate Finish

a la comercia de la c	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9P-F179C	DE-9P-F179C-30	DEE-9P-F179C	DEE-9PF-179C-30	DEY-9P-F179C	DEY-9P-F179C-30
15	DA-15P-F179C	DA-15P-F179C-30	DAE-15P-F179C	DAE-15PF-179C-30	DAY-15P-F179C	DAY-15P-F179C-30
25	DB-25P-F179C	DB-25P-F179C-30	DBE-25P-F179C	DBE-25PF-179C-30	D8Y-25P-F179C	DBY-25P-F179C-30
37	DC-37P-F179C	DC-37P-F179C-30	DCE-37P-F179C	DCE-37PF-179C-30	DCY-37P-F179C	DCY-37P-F179C-30
50	DD-50P-F179C	DD-50P-F179C-30	DDE-50P-F179C	DDE-50PF-179C-30	DDY-50P-F179C	DDY-50P-F179C-30

Tin-Plated Shell with Grounding Indents

	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9PTI-F179C	DE-9PTI-F179C-30	DEE-9PTI-F179C	DEE-9PTI-F179C-30	DEY-9PTI-F179C	DEY-9PTI-F179C-30
15	DA-15PTI-F179C	DA-15PTI-F179C-30	DAE-15PTI-F179C	DAE-15PTI-F179C-30	DAY-15PTI-F179C	DAY-15PTI-F179C-30
25	DB-25PTI-F179C	DB-25PTI-F179C-30	DBE-25PTI-F179C	DBE-25PTI-F179C-30	DBY-25PTI-F179C	DBY-25PTI-F179C-30
37	DC-37PTI-F179C	DC-37PTI-F179C-30	DCE-37PTI-F179C	DCE-37PTI-F179C-30	DCY-37PTI-F179C	DCY-37PTI-F179C-30
50	DD-50PTI-F179C	DD-50PTI-F179C-30	DDE-50PTI-F179C	DDE-50PTI-F179C-30	DDY-50PTI-F179C	DDY-50PTI-F179C-30



Ordering Information

Wire Wrap Sockets

.375" Tail Length

Zinc-Plated Shell with Yellow Chromate Finish

	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-95-F179	DE-9S-F179-30	DEE-9S-F179	DEE-9S-F179-30	DEY-95-F179	DEY-9S-F179-30
15	DA-15S-F179	DA-15S-F179-30	DAE-10S-F179	DAE-10S-F179-30	DAY-15S-F179	DAY-15S-F179-30
25	DB-25S-F179	DB-25S-F179-30	DBE-25S-F179	DBE-25S-F179-30	DBY-25S-F179	DBY-25S-F179-30
37	DC-37S-F179	DC-37S-F179-30	DCE-37S-F179	DCE-37S-F179-30	DCY-37S-F179	DCY-37S-F179-30
50	DD-50S-F179	DD-50S-F179-30	DDE-50S-F179	DDE-50S-F179-30	DDY-50S-F179	DDY-50S-F179-30

Tin-Plated Shell

Positions	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-95T-F179	DE-9ST-F179-30	DEE-9ST-F179	DEE-9ST-F179-30	DEY-9ST-F179	DEY-9ST-F179-30
15	DA-15ST-F179	DA-15ST-F179-30	DAE-15ST-F179	DAE-15ST-F179-30	DAY-15ST-F179	DAY-15ST-F179-30
25	DB-25ST-F179	DB-25ST-F179-30	DBE-25ST-F179	DBE-25ST-F179-30	DBY-25ST-F179	DBY-25ST-F179-30
37	DC-37ST-F179	DC-37ST-F179-30	DCE-37ST-F179	DCE-37ST-F179-30	DCY-37ST-F179	DCY-37ST-F179-30
50	DD-50ST-F179	DD-50ST-F179-30	DDE-00ST-F179	DDE-50ST-F179-30	DDY-50ST-F179	DDY-50ST-F179-30

.585" Tail Length

Zinc-Plated Shell with Yellow Chromate Finish

	Mounting Holes		4-40 C	linch Nuts	Dual Float Bushings	
Positions	Gold Flash	30pin, Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9S-F179C	DE-95-F179C-30	DEE-9S-F179C	DEE-9S-F179C-30	DEY-9S-F179C	DEY-9S-F179C-30
15	DA-15S-F179C	DA-15S-F179C-30	DAE-15S-F179C	DAE-15S-F179C-30	DAY-15S-F179C	DAY-15S-F179C-30
25	DB-255-F179C	DB-255-F179C-30	DBE-25S-F179C	DBE-25S-F179C-30	DBY-255-F179C	DBY-25S-F179C-30
37	DC-37S-F179C	DC-37S-F179C-30	DCE-37S-F179C	DCE-37S-F179C-30	DCY-37S-F179C	DCY-37S-F179C-30
50	DD-50S-F179C	DD-50S-F179C-30	DDE-50S-F179C	DDE-50S-F179C-30	DDY-50S-F179C	DDY-50S-F179C-30

Tin-Plated Shell

-	Mounting Holes		4-40 Clinch Nuts		Dual Float Bushings	
Positions	Gold Flash	30pin. Gold	Gold Flash	30µin. Gold	Gold Flash	30µin. Gold
9	DE-9ST-F179C	DE-9ST-F179C-30	DEE-9ST-F179C	DEE-9ST-F179C-30	DEY-9ST-F179C	DEY-9ST-F179C-30
15	DA-15ST-F179C	DA-15ST-F179C-30	DAE-10ST-F179C	DAE-15ST-F179C-30	DAY-15ST-F179C	DAY-15ST-F179C-30
25	DB-25ST-F179C	DB-25ST-F179C-30	DBE-25ST-F179C	DBE-25ST-F179C-30	DBY-25ST-F179C	DBY-25ST-F179C-30
37	DC-37ST-F179C	DC-37ST-F179C-30	DCE-37ST-F179C	DCE-37ST-F179C-30	DCY-37ST-F179C	DCY-37ST-F179C-30
50	DD-50ST-F179C	DD-50ST-F179C-30	DDE-50ST-F179C	DDE-50ST-F179C-30	DDY-50ST-F179C	DDY-50ST-F179C-30

D-subminiature Metal Shell Solder Cup, Right-Angle, and Vertical PCB Series 1 - High Reliability



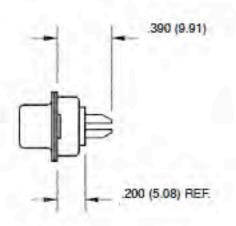
FEATURES	 Available in vertical and right-angle dip solder PCB connectors wire termination. Commercial version of M24308 military connectors with tin-plat and 30µin. gold plating. Monoblock green diallyl phthalate insulator for improved electric Machined contacts for precision performance. Offered in 9, 15, 25, 37, and 50 (except right-angle version) post Offered with .120 mounting holes, 4-40 clinch nuts (except right float bushings (except right-angle version). Approvals: UL Recognized - Files E170218 (UL1977) and E130965 (UL18 - CSA Approved - File LR31996. See pages 4-5 thru 4-10 for standard dimensions, contact arran mounting specifications. 	ted or zinc-plated shell ical performance. ition plugs and sockets. t-angle version), or dual 863).
MATERIALS	Insulator Material: Glass-filled diallyl phthalate (green) UL 94V-0 rated Connector Shell: Steel with zinc plating and yellow chromate finish or tin plating (grounding indents on plug) Contact Material: Plug - Brass (machined), Socket - Phosphor bronze (machined) Contact Plating: 30µin. gold over nickel 4-40 Clinch Nut: Steel with cadmium plating and yellow chromate finish Dual Float Bushing: Stainless steel, passivated	
ENVIRONMENTAL	Operating Temperature: -65°C to + 125°C Shock: 50G peak per MIL-STD-202, Method 213, Condition G Vibration: 12 cycles in three perpendicular directions @ 10-2000Hz, per MIL-STD-202, Method 204, Condition D Moisture Resistance: 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103	A STREET AND A STR
I ELECTRICAL	Withstanding Voltage: Minimum 1250V RMS @ sea level Current Rating: 5 Amps Contact Resistance: 2.7 milliohms maximum Insulation Resistance: 5000 megohms maximum (initial); 1000 megohms (minimum) after environmental testing	
MECHANICAL	Individual Contact Insertion and Separation Force (minimum/maximum): 0.7 oz./12 oz. Durability: 500 mating cycles	Thomassanan

4-48

D-subminiature Metal Shell Solder Cup Series 1 - High Reliability



Will accommodate up to 20 AWG wire.



Ordering Information

Solder Cup Plugs

Zinc-Plate	d Shell with Yellow	w Chromate Finish	Tin-Plated Shell with Grounding Indents		
Mounting Hole	4-40 Clinch Nut	Dual Float Bushings			
DEM-9P	DEME-9P	DEMY-9P	DEM-9PTI	DEME-9PTI	DEMY-9PTI
DAM-15P	DAME-15P	DAMY-15P	DAM-15PTI	DAME-15PTI	DAMY-15PTI
DBM-25P	DBME-25P	DBMY-25P	DBM-25PTI	DBME-25PTI	DBMY-25PTI
DCM-37P	DCME-37P	DCMY-37P	DCM-37PTI	DCME-37PTI	DCMY-37PTI
DDM-50P	DDME-50P	DDMY-50P	DDM-50PTI	DDME-50PTI	DDMY-50PTI
	Mounting Hole DEM-9P DAM-15P DBM-25P DCM-37P	Mounting Hole4-40 Clinch NutDEM-9PDEME-9PDAM-15PDAME-15PDBM-25PDBME-25PDCM-37PDCME-37P	DEM-9P DEME-9P DEMY-9P DAM-15P DAME-15P DAMY-15P DBM-25P DBME-25P DBMY-25P DCM-37P DCME-37P DCMY-37P	Mounting Hole4-40 Clinch NutDual Float BushingsMounting HoleDEM-9PDEME-9PDEMY-9PDEM-9PTIDAM-15PDAME-15PDAMY-15PDAM-15PTIDBM-25PDBME-25PDBMY-25PDBM-25PTIDCM-37PDCME-37PDCMY-37PDCM-37PTI	Mounting Hole4-40 Clinch NutDual Float BushingsMounting Hole4-40 Clinch NutDEM-9PDEME-9PDEMY-9PDEM-9PTIDEME-9PTIDAM-15PDAME-15PDAMY-15PDAM-15PTIDAME-15PTIDBM-25PDBME-25PDBMY-25PDBM-25PTIDBME-25PTIDCM-37PDCME-37PDCMY-37PDCM-37PTIDCME-37PTI

Solder Cup Sockets

	Zinc-Plated	Shell with Yellow	Chromate Finish	Tin-Plated Shell			
Positions	Mounting Hole	4-40 Clinch Nut	Dual Float Bushings	Mounting Hole	4-40 Clinch Nut	Dual Float Bushings	
9	DEM-9S	DEME-9S	DEMY-9S	DEM-9ST	DEME-9ST	DEMY-9ST	
15	DAM-15S	DAME-15S	DAMY-15S	DAM-15ST	DAME-15ST	DAMY-15ST	
25	DBM-25S	DBME-25S	DBMY-25S	DBM-25ST	DBME-25ST	DBMY-25ST	
37	DCM-37S	DCME-37S	DCMY-37S	DCM-37ST	DCME-37ST	DCMY-37ST	
50	DDM-50S	DDME-50S	DDMY-50S	DDM-50ST	DDME-50ST	DDMY-50ST	

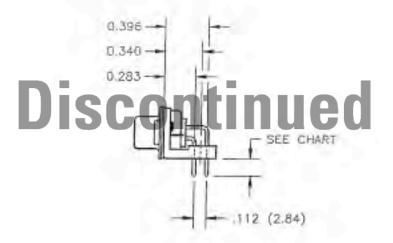
D-subminiature Metal Shell Right-Angle Dip Solder PCB Series 1 - High Reliability



- .283" footprint uses minimal board space.
- Available with three contact tail lengths (.125", .158", and .185") and two contact diameters (.030" and .040").

Materials

Mounting bracket: Black nylon. Can be removed if necessary.





Ordering Information

Right-Angle PCB Plugs

Zinc-Plated Shell with Yellow Chromate Finish

	.125 Tail Length	.158 Tall Length	.185 Tail Length	.125 Tail Length	.158 Tall Length	.185 Tail Length
Positions	.030 Contact	.030 Contact	.030 Contact	.040 Contact	.040 Contact	.040 Contact
	Diameter	Diameter	Diameter	Diameter	Diameter	Diameter
0	DEM-OPD	DEM-OPL	DEM-9PS	DEM-SPA	DEM-9PG	DEM-9PW
15	DAM-15PD	DAM-15PL	DAM-15PS	DAM-15PA	DAM-15PG	DAM-15PW
25	DBM-25PD	DBM-25PL	DBM-25PS	DBM-25PA	DBM-25PG	DBM-25PW
37	DCM-37PD	DCM-37PL	DCM-37PS	DCM-37PA	DCM-37PG	DCM-37PW

Tin-Plated Shell with Grounding Indents

	.125 Tail Length	.158 Tail Length	.185 Tail Length	.125 Tall Length	158 Tall Length	.185 Tail Length
Positions	.030 Contact	.030 Contact	.030 Contact	.040 Contact	.040 Contact	.040 Contact
	Diameter	Diameter	Diameter	Diameter	Diameter	Diameter
8	DEM-SPDTI	DEM-SPLTI	DEM-9PSTI	DEM-SPATI	DEM-9PGTI	DEM-9PWTI
15	DAM-15PDTI	DAM-15PLTI	DAM-15PSTI	DAM-15PATI	DAM-15PGTI	DAM-15PWTI
25	DBM-25PDTI	DBM-25PLTI	DBM-25PSTI	DBM-25PATI	DBM 25PGTI	DBM 25PWTI
37	DCM-37PDTI	DCM-37PLTI	DCM-37PSTI	DCM-37PATI	DCM-37PGTI	DCM-37PWTI
		and the second sec				

D-subminiature Metal Shell Right-Angle Dip Solder PCB Series 1 - High Reliability

Cinch

Ordering Information

Right-Angle PCB Sockets

Zinc-Plated Shell with Yellow Chromate Finish

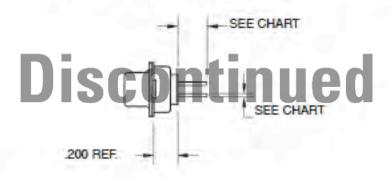
Cer Corren	.125 Tall Length	.158 Tail Length	.165 Tall Length	.125 Tail Length	.158 Tail Length	.185 Tail Length
ositions	.030 Contact Diameter	.030 Contact Diameter	.030 Contact Diameter	.040 Contact Diameter	.040 Contact	.040 Contact Diameter
9	DEM-9SD	DEM-SSL	DEM-958	OEM-93A	DEM-95G	DEM-9SW
15	DAM-15SD	DAM-15SL	DAM-15SS	DAM-16SA	DAM-15SG	DAM-15SW
25	DBM-25SD	DEMOS	DEM 25SS	DEM-26SA	DBM-259G	DBM-26SW
37	DCM-37SD	DCM-37SL	DCM-37SS	DCM-37SA	DCM-375G	DCM-37SW

Tin-Plated Shell

Positions	.125 Tail Length .030 Contact Diameter	.158 Tail Length .030 Contact Diameter	.165 Tall Length .030 Contact Diameter	.125 Tail Length .040 Contact Diameter	.158 Tail Length .040 Contact Diameter	.185 Tail Length .040 Contact Diameter
9	DEM-9SDT	DEM-9SIT	DEM-9SST	DEM-9SAT	DEM-9SGT	DEM-9SWT
15	DAM-15SDT	DAM-15SLT	DAM-15SST	DAM-15SAT	DAM-15SGT	DAM-15SWT
25	DBM-26SDT	DBM-25SLT	DBM-25SST	DBM-25SAT	DBM-25SGT	DBM-25SWT
37	DOM-37SDT	DCM-37SLT	DCM-37SST	DCM-37SAT	DCM-37SGT	DCM-37SWT



Available with three contact tail lengths (.125", .158", and .185") and two contact diameters (.030" and .040").



Ordering Information

Vertical PCB Plugs

Zinc-Plated Shell with Yellow Chromate Finish

Positions	.125 Tail Length .030 Contact Diameter	.158 Tall Length .030 Contact Diameter	.185 Tail Length .030 Contact Diameter	.125 Tall Length .040 Contact Diameter	.158 Tail Length .040 Contact Diameter	.185 Tail Length .040 Contact Diameter
9	DEM-9PE	DEM-9PM	DEM-9PZ	DEM-9PB	DEM-9PH	DEM-9PX
15	DAM-15PE	DAM-15PM	DAM-15PZ	DAM-15PB	DAM-15PH	DAM-15PX
25	DBM-25PE	DBM-25PM	DBM-25PZ	DBM-25PB	DBM-25PH	DBM-25PX
37	DCM-37PE	DCM-37PM	DCM-37PZ	DCM-37PB	DCM-37PH	DCM-37PX
50	DOM-SOPE	DDM 50PM	DOM-50PZ	DDM-50PB	DDM-SOPH	DOM-SOPX

Zinc-Plated Shell with Yellow Chromate Finish and 4-40 Clinch Nuts

Positions	.125 Tail Length .030 Contact Diameter	.158 Tail Length .030 Contact Diameter	.185 Tail Length .030 Contact Diameter	.125 Tall Length .040 Contact Diameter	.158 Tail Length .040 Contact Diameter	.185 Tall Length .040 Contact Diameter
9	DEME-9PE	DEME-9PM	DEME-9PZ	DEME-9PB	DEME-9PH	DEME-9PX
15	DAME-15PE	DAME-15PM	DAME-15PZ	DAME-15PB	DAME-15PH	DAME-15PX
25	DBME-25PE	DBME-25PM	DBME-25PZ	DBME-25PB	DBME-25PH	DBME-25PX
37	DCME-37PE	DCME-37PM	DCME-37PZ	DCME-37PB	DCME-37PH	DCME-37PX
50	DOME-SOPE	DDME-SOPM	DOME-SOPZ	DDME-50PB	DDME-SOPH	DOME-SOPX

Zinc-Plated Shell with Yellow Chromate Finish and Dual Float Bushings

Positions	.125 Tail Length .030 Contact Diameter	.158 Tall Length .030 Contact Diameter	.185 Tail Length .030 Contact Diameter	.125 Tail Length .040 Contact Diameter	.158 Tail Length .040 Contact Diameter	.185 Tail Length .040 Contact Diameter
9	DEMY-9PE	DEMY-9PM	DEMY-9PZ	DEMY-9PB	DEMY-9PH	DEMY-9PX
15	DAMY-15PE	DAMY-15PM	DAMY-15PZ	DAMY-15PB	DAMY-15PH	DAMY-15PX
25	DBMY-25PE	DBMY-25PM	DBMY-25PZ	DBMY-25PB	DBMY-25PH	DBMY-25PX
37	DCMY-37PE	DCMY-37PM	DCMY-37PZ	DCMY-37PB	DCMY-37PH	DCMY-37PX
50	DOMY-SOPE	DDMY SOPM	DOMY 50PZ	DDMY-50PB	DDMY-50PH	DDMY-50PX



Ordering Information

Vertical PCB Plugs (Cont'd)

Tin-Plated Shell with Grounding Indents

Positions	.125 Tail Length .030 Contact Diameter	.158 Tail Length .030 Contact Diameter	.185 Tail Length .030 Contact Diameter	.125 Tail Length .040 Contact Diameter	.158 Tail Length .040 Contact Diameter	.185 Tail Length .040 Contact Diameter
9	DEM-9PETI	DEM-9PMTI	DEM-9PZTI	DEM-9PBTI	DEM-9PHTI	DEM-9PXTI
15	DAM-15PETI	DAM-15PMTI	DAM-15PZTI	DAM-15PBTI	DAM-15PHTI	DAM-15PXTI
25	DBM-25PETI	DBM-SSPWTI	DBM-25PZTL	DBM-25PBTI	DBM-25PHTI	DBM-25PXTI
37	DCM-37PETI	DCM-37PMTI	DCM 37P2TI	DCM-S7P6TL	DOM-37PHTI	DCM-37PXTI
50	DDM-SOPETI	DDM-S0PMTI	DOM-50P2TI	DDM-50PBTI	DDM-50PHT1	DDM-50PXTI

Tin-Plated Shell with Grounding Indents and 4-40 Clinch Nuts

Positions	.125 Tail Length .030 Contact Diameter	.158 Tail Length .030 Contact Diameter	.185 Tall Length .030 Contact Diameter	.125 Tail Length .040 Contact Diameter	.158 Tail Length .040 Contact Diameter	.185 Tail Length .040 Contact Diameter
9	DEME-9PETI	DEME-9PMTI	DEME-9PZTI	DEME-9PBTI	DEME-9PHTI	DEME-9PXTI
15	DAME-15PETI	DAME-15PMTI	DAME-15PZTI	DAME-15PBTI	DAME-15PHTI	DAME-15PXTI
25	DBME-25PETI	DBME-25PMTI	DBME-25PZTI	DBME-25PBTI	DBME-25PHTI	DBME-25PXTI
37	DCME-37PETI	DCME-37PMTI	DCME-37PZTL	DCME-37PBTI	DCME-37PHTL	DCME-37PXTI
50	DDME-SOPETI	DDME-SOPMTI	DDME-S0PZTI	DDME-50PBTI	DDME-SOPHTI	DDME-S0PXTI

Tin-Plated Shell with Grounding Indents and Dual Float Bushings

Positions	.125 Tail Length .030 Contact Diameter	.158 Tail Length .030 Contact Diameter	.185 Tail Length .030 Contact Diameter	.125 Tail Length .040 Contact Diameter	.158 Tail Length .040 Contact Diameter	.185 Tail Length .040 Contact Diameter
9	DEMY-9PETI	DEMY-9PMTI	DEMY-9PZTI	DEMY-9PBTI	DEMY-9PHTI	DEMY-9PXTI
15	DAMY-15PETI	DAMY-15PMTI	DAMY-15PZTI	DAMY-15PBTI	DAMY-15PHTI	DAMY-15PXTI
25	DBMY-25PETI	DBMY-25PMTI	DBMY-25PZTI	DBMY-25PBTI	DBMY-25PHTI	DBMY-25PXTI
37	DCMY-37PETI	DCMY-37PMTI	DCMY-37PZTI	DCMY-37PBTI	DCMY-37PHTI	DCMY-37PXTI
50	DDMY-SOPETI	DDMY-SOPMTI	DOMY-SOPZTI	DDMY-SOPBTI	DDMY-50PHTI	DDMY-50PXTI

Vertical PCB Sockets

Zinc-Plated Shell with Yellow Chromate Finish

Positions	.125 Tail Length .030 Contact Diameter	.158 Tail Length .030 Contact Diameter	.185 Tail Length .030 Contact Diameter	.125 Tail Length .040 Contact Diameter	.158 Tail Length .040 Contact Diameter	.185 Tail Length .040 Contact Diameter
9	DEM-9SE	DEM-9SM	DEM-9SZ	DEM-9SB	DEM-9SH	DEM-9SX
15	DAM-15SE	DAM-15SM	DAM-15SZ	DAM-15SB	DAM-15SH	DAM-15SX
25	DBM-25SE	DBM-25SM	DBM-25SZ	DBM-25SB	DBM-25SH	DBM-25SX
37	DCM-37SE	DCM-37SM	DCM-37SZ	DCM-37SB	DCM-37SH	DCM-37SX
50	DDM-SOSE	DDM-50SM	DOM-50SZ	DDM 50SB	DDM-50SH	DDM 50SX



Ordering Information

Vertical PCB Sockets (Cont'd)

Zinc-Plated Shell with Yellow Chromate Finish and 4-40 Clinch Nuts

Positions	.125 Tail Length .030 Contact Diameter	.158 Tail Length .030 Contact Diameter	.185 Tail Length .030 Contact Diameter	.125 Tail Length .040 Contact Diameter	.158 Tail Length .040 Contact Diameter	.185 Tail Length .040 Contact Diameter
9	DEME-9SE	DEME-9SM	DEME-98Z	_ DEME-9SB	DEME-9SH	DEME-9SX
15	DAME-15SE	DAME-15SM	DAME-15SZ	DAME-15SB	DAME-15SH	DAME-15SX
25	DBME-25SE	DEMIS-255M	DBME-25SZ	DBME-25SB	DEME-25SH	DBME-25SX
37	DCME-37SE	DOME 375M	DOME-3757	DCME-325B	DOME-37SH	DCME-37SX
50	DOME-50SE	DDME-50SM	DOME-508Z	DDME-503B	DDME-SOSH	DDME-50SX

Zinc-Plated Shell with Yellow Chromate Finish and Dual Float Bushings

Positions	.125 Tail Length .030 Contact Diameter	.158 Tail Length .030 Contact Diameter	.185 Tail Length .030 Contact Diameter	.125 Tail Length .040 Contact Diameter	.158 Tail Length .040 Contact Diameter	.185 Tail Length .040 Contact Diameter
9	DEMY-9SE	DEMY-9SM	DEMY-98Z	DEMY-96B	DEMY-9SH	DEMY-9SX
15	DAMY-15SE	DAMY-15SM	DAMY-15SZ	DAMY-15SB	DAMY-15SH	DAMY-15SX
25	DBMY-25SE	DBMY-25SM	DBMY-25SZ	DBMY-25SB	DBMY-25SH	DBMY-25SX
37	DCMY-37SE	DCMY-37SM	DCMY-37SZ	DCMY-37SB	DCMY-37SH	DCMY-37SX
50	DDMY-50SE	DDMY-50SM	DOMY-50SZ	DDMY-50SB	DDMY-50SH	DDMY-50SX

Tin-Plated Shell

Positions	.125 Tail Length .030 Contact Diameter	.158 Tail Length .030 Contact Diameter	.185 Tail Length .030 Contact Diameter	.125 Tail Length .040 Contact Diameter	.158 Tail Length .040 Contact Diameter	.185 Tail Length .040 Contact Diameter
9	DEM-9SET	DEM-9SMT	DEM-9SZT	DEM-9SBT	DEM-9SHT	DEM-9SXT
15	DAM-15SET	DAM-15SMT	DAM-15SZT	DAM-15SBT	DAM-15SHT	DAM-15SXT
25	DBM-25SET	DBM-25SMT	DBM-25SZT	DBM-25SBT	DBM-25SHT	DBM-25SXT
37	DCM-37SET	DCM-37SMT	DCM-37SZT	DCM-37SBT	DCM-37SHT	DCM-37SXT
50	DOM-SOSET	DDM 50SMT	DOM-50SZT	DDM-50SBT	DDM-50SHT	DDM-50SXT

Tin-Plated Shell with 4-40 Clinch Nuts

Positions	.125 Tail Length .030 Contact		.185 Tail Length .030 Contact	.125 Tall Length .040 Contact	.158 Tail Length .040 Contact	.185 Tail Length .040 Contact
	Diameter	Diameter	Diameter	Diameter Diameter	Diameter	
9	DEME-9SET	DEME-9SMT	DEME-9SZT	DEME-9SBT	DEME-9SHT	DEME-9SXT
15	DAME-15SET	DAME-15SMT	DAME-15SZT	DAME-15SBT	DAME-15SHT	DAME-15SXT
25	DBME-25SET	DBME-25SMT	DBME-25SZT	DBME-25SBT	DBME-25SHT	DBME-25SXT
37	DCME-37SET	DCME-37SMT	DCME-37SZT	DCME-37SBT	DCME-37SHT	DCME-37SXT
50	DOME-SOSET	DDME-50SMT	DOME-5082T	DDME-503BT	DDME-50SHT	DDME-50SXT

Tin-Plated Shell with Dual Float Bushings

Positions	.125 Tail Length .030 Contact Diameter	.158 Tail Length .030 Contact Diameter	.185 Tail Length .030 Contact Diameter	.125 Tall Length .040 Contact Diameter	.158 Tail Length .040 Contact Diameter	.185 Tail Length .040 Contact Diameter
9	DEMY-9SET	DEMY-9SMT	DEMY-9SZT	DEMY-9SBT	DEMY-9SHT	DEMY-9SXT
15	DAMY-15SET	DAMY-15SMT	DAMY-15SZT	DAMY-15SBT	DAMY-15SHT	DAMY-15SXT
25	DBMY-26SET	DBMY-25SMT	DBMY-25SZT	DBMY-25SBT	DBMY-25SHT	DBMY-25SXT
37	DCMY-37SET	DCMY-37SMT	DCMY-37SZT	DCMY-37SBT	DCMY-37SHT	DCMY-37SXT
50	DOMY-SOSET	DDMY-S0SMT	DOMY-50SZT	DDMY-50SBT	DDMY-50SHT	DOMY-50SXT

D-subminiature Metal Shell - Combination Layout Solder Cup and Vertical PCB Series 1 - High Reliability



- Shell Sizes (equivalent to standard size): E (Size 9), A (Size 15), B (Size 25), C (Size 25), and D (Size 25).
- · Offered in a variety of combination layouts in vertical style for PCB mount or solder cup style for wire termination.
- Signal Contacts (Size 20) are fixed and non-removable.
 - Vertical Dip Solder Contacts are available with three contact tail lengths (.125", .158", and .185") and two contact diameters (.030" and .040").
- Removable Coaxial, High Power, High Voltage contacts must be ordered separately.
- See Series 1 page 4-48 for specifications.
- Available with 30µin. or 50µin. gold contact plating.

Materials

Connector Shell:

Steel with zinc or cadmium plating and yellow chromate finish or tin plating (grounding indents on plug).



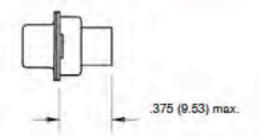


D-subminiature Metal Shell Crimp and Poke Series 3 - High Reliability



FEATURES	 High-reliability in a commercial grade connector. Monoblock diallyl phthalate insulator for improved elect Offered in 9, 15, 25, 37, and 50 position plugs and socke Offered with .120 mounting holes, 4-40 clinch nuts, or de Commercial version of M24308 Military connectors with 30µin. gold contact plating. Screw Machine Crimp and Poke contacts available as for . Note that all contacts are packed loose. Plating options: 30µin. gold. Can be included with the connector or purchased sep See pages 4-5 thru 4-10 for standard dimensions, contact mounting specifications. 	ts. ual float bushings. tin-plated or zinc-plated shell and llows: parately (FO part numbers).
MATERALS	Insulator Material: Glass fiber-filled diallyl phthalate (green), UL 94V-0 Connector Shell: Steel with zinc plating and yellow chromate finish Contact Material: Plug - Brass (machined), Socket - Phosphor bronze (machined) Contact Plating: 30µin gold over nickel 4-40 Clinch Nut: Steel with cadmium plating and yellow chromate finish Dual Float Bushing: Stainless steel, passivated	
ENVIRONMENTAL	Operating Temperature: -65°C to + 125°C Shock: 50G peak per MIL-STD-202, Method 213, Condition G Vibration: 12 cycles in three perpendicular directions @ 10-2000Hz, per MIL-STD-202, Method 204, Condition D Moisture Resistance: 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103	
ELECTRICAL	Withstanding Voltage: Current Rating: Minimum 1250V RMS @ sea level Contact Resistance: 5 Amps Insulation Resistance: 2.7 milliohms maximum 1000 megohms maximum (initial); 1000 megohms (minimum) after environmental testing	
MECHANICAL	Individual Contact Insertion and Separation Force (minimum/maximum): 0.7 oz./12 oz. Durability: 500 mating cycles	
	Call Toll Free: 1 (800) 323-9612 4-70	

D-subminiature Metal Shell Crimp and Poke Series 3 - High Reliability



Termination Tooling

- Contact Insertion/Extraction Tool: #CIET-20-HD (Military #M81969/39-01). See page 4-103.
- Crimp Contact Hand Tool: Military #M22520/2-01. See page 4-103. Contact Positioner (below) required.
- Positioner for machine contacts for Hand Tool #M22520/2-01 (locates contact in the correct position): #M22520/2-08. See page 4-103.

Ordering Information

Crimp and Poke - Plugs

Zinc-Plated Shell with Yellow Chromate Finish

	Mounting Holes		4-40	Clinch Nuts	Dual Float Bushings		
Positions	30µin. Gold Contacts	Without Contacts	30µin. Gold Contacts	Without Contacts	30µin. Gold Contacts	Without Contacts	
9	DEMA-9P	DEMA-9P-FO	DEMAE-9P	DEMAE-9P-FO	DEMAY-9P	DEMAY-9P-FO	
15	DAMA-15P	DAMA-15P-FO	DAMAE-15P	DAMAE-15P-FO	DAMAY-15P	DAMAY-15P-FO	
25	DBMA-25P	DBMA-25P-FO	DBMAE-25P	DBMAE-25P-FO	DBMAY-25P	DBMAY-25P-FO	
37	DCMA-37P	DCMA-37P-FO	DCMAE-37P	DCMAE-37P-FO	DCMAY-37P	DCMAY-37P-FO	
50	DDMA-50P	DDMA-50P-FO	DDMAE-50P	DDMAE-50P-FO	DDMAY-50P	DDMAY-50P-FO	

Tin-Plated Shells with Grounding Indents

	Mounting Holes		4-40 (Clinch Nuts	Dual Float Bushings		
Positions	30µin. Gold Contacts	Without Contacts	30µin. Gold Contacts	Without Contacts	30µin. Gold Contacts	Without Contacts	
9	DEMA-9PTI	DEMA-9PTI-FO	DEMAE-9PTI	DEMAE-9PTI-FO	DEMAY-9PTI	DEMAY-9PTI-FO	
15	DAMA-15PTI	DAMA-15PTI-FO	DAMAE-15PTI	DAMAE-15PTI-FO	DAMAY-15PTI	DAMAY-15PTI-FO	
25	DBMA-25PTI	DBMA-25PTI-FO	DBMAE-25PTI	DBMAE-25PTI-FO	DBMAY-25PTI	DBMAY-25PTI-FO	
37	DCMA-37PTI	DCMA-37PTI-FO	DCMAE-37PTI	DCMAE-37PTI-FO	DCMAY-37PTI	DCMAY-37PTI-FO	
50	DDMA-50PTI	DDMA-50PTI-FO	DDMAE-50PTI	DDMAE-50PTI-FO	DDMAY-50PTI	DDMAY-50PTI-FO	

Cinch



Ordering Information

Crimp and Poke - Sockets

Zinc-Plated Shell with Yellow Chromate Finish

	Mounting Holes		4-40	Clinch Nuts	Dual Float Bushings		
Positions	30µin. Gold Contacts	Without Contacts	30µin, Gold Contacts	Without Contacts	30µin. Gold Contacts	Without Contacts	
9	DEMA-9S	DEMA-9S-FO	DEMAE-9S	DEMAE-9S-FO	DEMAY-9S	DEMAY-9S-FO	
15	DAMA-15S	DAMA-15S-FO	DAMAE-15S	DAMAE-15S-FO	DAMAY-15S	DAMAY-15S-FO	
25	DBMA-25S	DBMA-25S-FO	DBMAE-25S	DBMAE-25S-FO	DBMAY-25S	DBMAY-25S-FO	
37	DCMA-37S	DCMA-37S-FO	DCMAE-37S	DCMAE-37S-FO	DCMAY-37S	DCMAY-37S-FO	
50	DDMA-50S	DDMA-50S-FO	DDMAE-50S	DDMAE-50S-FO	DDMAY-50S	DDMAY-50S-FO	
	Province and	000010	Dump L-000	DD111112-300-1-0	00000	-	

Tin-Plated Shell

	Mounting Holes		4-40	Clinch Nuts	Dual Float Bushings		
Positions	30µin. Gold Contacts	Without Contacts	30µin. Gold Contacts	Without Contacts	30µin. Gold Contacts	Without Contacts	
9	DEMA-9ST	DEMA-9ST-FO	DEMAE-9ST	DEMAE-9ST-FO	DEMAY-9ST	DEMAY-9ST-FO	
15	DAMA-15ST	DAMA-15ST-FO	DAMAE-15ST	DAMAE-15ST-FO	DAMAY-15ST	DAMAY-15ST-FO	
25	DBMA-25ST	DBMA-25ST-FO	DBMAE-25ST	DBMAE-25ST-FO	DBMAY-25ST	DBMAY-25ST-FO	
37	DCMA-37ST	DCMA-37ST-FO	DCMAE-37ST	DCMAE-37ST-FO	DCMAY-37ST	DCMAY-37ST-FO	
50	DDMA-50ST	DDMA-50ST-FO	DDMAE-50ST	DOMAE-50ST-FO	DDMAY-50ST	DDMAY-50ST-FO	

Crimp and Poke Machined Contacts

Will accommodate 20, 22, and 24 AWG wire.



Ordering Information

Contacts

Description	
Pin	M39029/64-369
Socket	M39029/63-368

D-subminiature Metal Shell MIL-C-24308 M24308 Series

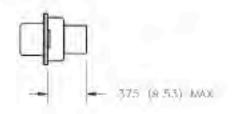


 Meets all MIL-C-24308 Class G specifications. Offered in Crimp and Poke and Solder Cup and PCB vertical Offered in 9, 15, 25, 37, and 50 position plugs and sockets e Monoblock green diallyl phthalate insulator for improved ele See pages 4-5 thru 4-10 for standard dimensions, contact a mounting specifications. 	except right-angle (9 to 37 positions). ectrical performance.
Insulator Material: Glass-filled diallyl phthalate (green) per MIL-M-14, Type SDG-F Connector Shell: Steel with cadmium plating and yellow chromate finish Contact Material: Plug - Brass (machined), Socket - Phosphor bronze (machined) Contact Plating: 50µin. gold over copper or nickel Dual Float Bushing: Stainless steel, passivated or non-magnetic brass	
Operating Temperature: -65°C to + 125°C Shock: 50G peak per MIL-STD-202, Method 213, Condition G Vibration: 12 cycles in three perpendicular directions @ 10-2000Hz, per MIL-STD-202 Method 204, Condition D Moisture Resistance: 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103	
Withstanding Voltage: Minimum 1250V RMS @ sea level Current Rating: 5 Amps Contact Resistance: 2.7 milliohms maximum Insulation Resistance: 5000 megohms maximum (initial); 1000 megohms (minimum) after environmental testing	
Individual Contact Insertion and Separation Force (minimum/maximum): 0.7 oz./12 oz. Durability: 500 mating cycles	
	 Offered in Crimp and Poke and Solder Cup and PCB vertical Offered in 9, 15, 25, 37, and 50 position plugs and sockets et Monoblock green dially! phthalate insulator for improved eld. See pages 4-5 thru 4-10 for standard dimensions, contact a mounting specifications. Insulator Material: Glass-filled dially! phthalate (green) per MIL-M-14, Type SDG-F Connector Shell: Steel with cadmium plating and yellow chromate finish Contact Material: Plug - Brass (machined), Socket - Phosphor bronze (machined) Contact Plating: 50pin. gold over copper or nickel Duel Float Bushing: Stainless steel, passivated or non-magnetic brass Operating Temperature: -85°C to + 125°C Shock: 50G peak per MIL-STD-202, Method 213, Condition G Vibration: 12 cycles in three perpendicular directions @ 10-2000Hz, per MIL-STD-202 Method 204, Condition D Moisture Resistance: 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103 Withstanding Voltage: Minimum 1250V RMS @ sea level Current Rating: 5 Amps Contact Resistance: 2.7 milliohms maximum (initial); 1000 megohms (minimum) after environmental testing Individual Contact Insertion and Separation Force (minimum/maximum): 0.7 oz./12 oz.

D-subminiature Metal Shell MIL-C-24308 Crimp and Poke M24308 Series



- Available with .120 mounting holes, float bushings, or dual float bushings.
- Order with contacts included or separately.
- Order with contact Insertion/Extraction Tool included or order tool #CIET-20-HD separately. See page 4-103.



Ordering Information

Crimp and Poke Plugs

Steel Shell

Contacts Included. Insertion/Extraction Tool Not Included.

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/4-1F	M24308/4-302F	M24308/4-435F
15	M24308/4-2F	M24308/4-303F	M24308/4-436F
25	M24308/4-3F	M24308/4-304F	M24308/4-437F
37	M24308/4-4F	M24308/4-305F	M24308/4-438F
50	M24308/4-5F	M24308/4-306F	M24308/4-439F

Contacts Included. Insertion/Extraction Tool Included.

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/4-6F	M24308/4-313F	M24308/4-446F
15	M24308/4-7F	M24308/4-314F	M24308/4-447F
25	M24308/4-8F	M24308/4-315F	M24308/4-448F
37	M24308/4-9F	M24308/4-316F	M24308/4-449F
50	M24308/4-10F	M24308/4-317F	M24308/4-450F

Contacts Not Included. Insertion/Extraction Tool Not Included.

Mounting Holes	Float Bushings	Dual Float Bushings
M24308/4-259F	M24308/4-324F	M24308/4-457F
M24308/4-260F	M24308/4-325F	M24308/4-458F
M24308/4-261F	M24308/4-326F	M24308/4-459F
M24308/4-262F	M24308/4-327F	M24308/4-460F
M24308/4-263F	M24308/4-328F	M24308/4-461F
	M24308/4-259F M24308/4-260F M24308/4-261F M24308/4-262F	M24308/4-259F M24308/4-324F M24308/4-260F M24308/4-325F M24308/4-261F M24308/4-326F M24308/4-262F M24308/4-327F



Ordering Information

Crimp and Poke Sockets

Steel Shell

Contacts Included. Insertion/Extraction Tool Not Included.

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/2-1F	M24308/2-23F	M24308/2-342F
15	M24308/2-2F	M24308/2-24F	M24308/2-343F
25	M24308/2-3F	M24308/2-25F	M24308/2-344F
37	M24308/2-4F	M24308/2-26F	M24308/2-345F
50	M24308/2-5F	M24308/2-27F	M24308/2-346F

Contacts Included. Insertion/Extraction Tool Included.

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/2-6F	M24308/2-34F	M24308/2-353F
15	M24308/2-7F	M24308/2-35F	M24308/2-354F
25	M24308/2-8F	M24308/2-36F	M24308/2-355F
37	M24308/2-9F	M24308/2-37F	M24308/2-356F
50	M24308/2-10F	M24308/2-38F	M24308/2-357F

Contacts Not Included. Insertion/Extraction Tool Not Included.

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/2-281F	M24308/2-292F	M24308/2-482F
15	M24308/2-282F	M24308/2-293F	M24308/2-483F
25	M24308/2-283F	M24308/2-294F	M24308/2-484F
37	M24308/2-284F	M24308/2-295F	M24308/2-485F
50	M24308/2-285F	M24308/2-296F	M24308/2-486F



D-subminiature Metal Shell MIL-C-24308 Crimp and Poke M24308 Series



Ordering Information

Tooling

- Contact Insertion/Extraction Tool: #CIET-20-HD (Military #M81969/39-01). See page 4-103.
- Wire termination hand tool: #M22520/2-01. See page 4-103.
- Positioner for machine contacts for hand tool #M22520/2-08 (locates contact in the correct position). See page 4-103.

Crimp and Poke Contacts



Ordering Information

· Will accommodate 20, 22, and 24 AWG wire.

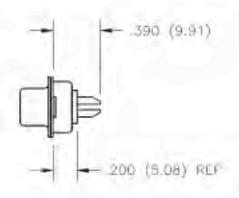
Description	
Pin	M39029/64-369
Socket	M39029/63-368

D-subminiature Metal Shell MIL-C-24308 Solder Cup M24308 Series



Available with .120" mounting holes, float bushings, or dual float bushings.

Will accommodate up to 20 AWG wire.



Ordering Information

Solder Cup Plugs

Steel Shell

M24308/3-17F
M24308/3-18F
M24308/3-19F
M24308/3-20F
M24308/3-21F

Brass Non-Magnetic Shell

Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/7-1F	M24308/7-12F	M24308/7-17F
15	M24308/7-2F	M24308/7-13F	M24308/7-18F
25	M24308/7-3F	M24308/7-14F	M24308/7-19F
37	M24308/7-4F	M24308/7-15F	M24308/7-20F
50	M24308/7-5F	M24308/7-16F	M24308/7-21F

Solder Cup Sockets

Steel Shell			
Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/1-1F	M24308/1-12F	M24308/1-23F
15	M24308/1-2F	M24308/1-13F	M24308/1-24F
25	M24308/1-3F	M24308/1-14F	M24308/1-25F
37	M24308/1-4F	M24308/1-15F	M24308/1-26F
50	M24308/1-5F	M24308/1-16F	M24308/1-27F

Brass Non-Magnetic Shell

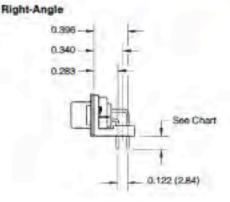
Positions	Mounting Holes	Float Bushings	Dual Float Bushings
9	M24308/5-1F	M24308/5-12F	M24308/5-23F
15	M24308/5-2F	M24308/5-13F	M24308/5-24F
25	M24308/5-3F	M24308/5-14F	M24308/5-25F
37	M24308/5-4F	M24308/5-15F	M24308/5-26F
50	M24308/5-5F	M24308/5-16F	M24308/5-27F

D-subminiature Metal Shell MIL-C-24308 PCB M24308 Series



Right-Angle Connector

- .283" footprint requires minimal PCB space.
- Available with three contact tail lengths (.127", .158", and .183") with .030" contact diameter.
- Available with two contact tail lengths (.127" and .183") with .040" contact diameter.
- Offered with .120° mounting holes.
- Mounting bracket: Black nylon. Can be removed if necessary.



SEE CHART

SEE CHARF

Ordering Information

Right-Angle PCB Plugs (Sockets not available)

Steel Shell

Positions	.127 Tail Length .030 Contact Diameter	.158 Tail Length .030 Contact Diameter	.183 Tail Length .030 Contact Diameter	.127 Tail Length .040 Contact Diameter	.183 Tall Length .040 Contact Diameter
9	M24308/24-25F	M24308/24-31F	M24308/24-49F	M24308/24-37F	M24308/24-55F
15	M24308/24-26F	M24308/24-32F	M24308/24-50F	M24308/24-38F	M24308/24-56F
25	M24308/24-27F	M24308/24-33F	M24308/24-51F	M24308/24-39F	M24308/24-57F
37	M24308/24-28F	M2430B/24-34F	M24308/24-52F	M24308/24-40F	M24308/24-58F

Vertical Connector

- Available with two contact tail lengths (.158" and .183") and two contact diameters (.030" and .040").
- Offered with .120^e mounting holes.

Ordering Information

Vertical PCB Plugs

Steel Shell

Positions	.158 Tail Length .030 Contact Diameter	.183 Tail Length .030 Contact Diameter	.158 Tail Length .040 Contact Diameter	.183 Tail Length .040 Contact Diameter
9	M24308/24-1F	M24308/24-7F	M24308/24-13F	M24308/24-19F
15	M24308/24-2F	M24308/24-8F	M24308/24-14F	M24308/24-20F
25	M24308/24-3F	M24308/24-9F	M24308/24-15F	M24308/24-21F
37	M24308/24-4F	M2430B/24-10F	M24308/24-16F	M24308/24-22F
50	M24308/24-5F	M24308/24-11F	M24308/24-17F	M24308/24-23F

Vertical PCB Sockets

Steel Shell

Positions	.158 Tail Length .030 Contact Diameter	.183 Tail Length .030 Contact Diameter	.158 Tail Length .040 Contact Diameter	.183 Tail Length .040 Contact Diameter
9	M24308/23-1F	M24308/23-7F	M24308/23-13F	M24308/23-19F
15	M24308/23-2F	M24308/23-8F	M24308/23-14F	M24308/23-20F
25	M24308/23-3F	M24308/23-9F	M24308/23-15F	M24308/23-21F
37	M24308/23-4F	M2430B/23-10F	M24308/23-16F	M24308/23-22F
50	M24308/23-5F	M24308/23-11F	M24308/23-17F	M24308/23-23F

Vertical

200 REF. -

D-subminiature Backshells/Junction Shells/Hoods Accessories



Cinch backshells are offered in a variety of styles, each having a specific strength.

- Backshells have two-piece construction and are frequently used where appearance is a major factor. RFI/EMI shielding capability is also an option:
 - Plastic Backshells: No shielding.
 - Metallized Plastic: Economical method of shielding.
 - Diecast Backshells: Maximum shielding.
- FEATURES

Cinch SDH Series backshells utilize Cinch's Latch-N-Lock[™] system with quick release disconnect. Just squeeze the latch levers to release the connector. Also available with standard 4-40 mounting hardware.

- Junction Shells come in a variety of sizes and shapes including right-angle and low profile. They are generally of one-piece construction with an adjustable clamp, but there is no shielding.
- Hoods have an improved appearance versus junction shells but no shielding. They are all-plastic and come in right-angle or straight configurations.
- Hardware, in the form of adjustable grommets or strain relief clamps and 4-40 screws, is generally supplied with the product; however, a variety of optional hardware is also available in the accessories section of this catalog.



The following is a summary of the various backshells, junction shells, and hoods that Cinch offers:

Backshells						
Туре	2-Piece	2-Piece	2-Piece	2-Piece	Super-D Con	nection System
Material	Plastic	Metallized	Diecast	Diecast	Black Plastic	Gray Plastic
Series	DPH	DCH	DMH	Ethernet	SDH - B	SDH - G
Shell Sizes*	EABC	EABCD	EABCD	A	EABC	EABC
Cable Exit	180°	180°	180°	90°/180°	90°/180°	90°/180°
Fits Connector Series marke	d with "*":					
D*A Series	•	•	•	•	•	
HTD Series	•	•	•	1	in the	
D*U Series	•	•	•	•	•	
Series 3		•	•			
T Series Metal Shell	•	•	•	•		1.0
T Series All-Plastic					1.1.1.1.1.1	•
Basic D	•	•	•			
Series 1	•	•	•	•	•	
		-		1.		

Junction Shells/Hoods

			Junctio	n Shells			Hoods	
Туре	Straight Clamp	Round Clamp	Rt. Angle Clamp	Deep Straight Clamp		Phenolic	Straight	Rt. Angle
Material	Metal	Metal	Metal	Metal	Metal	Plastic	Plastic	Plastic
Shell Sizes"	ABCD	ABCD	EABCD	EABCD	ABCD	AB	EAB	AB
Cable Exit	180°	180°	90°	180°	180°	180°	180°	90°
Fits Connector Series marked	with "•":						1.00	
D*A Series	•	•		•	•	•	•	•
D*U Series	•		•	•	•		•	•
Series 3		•	•	•	•	•	•	•
T Series Metal Shell	•	•	1.5		•	•	•	
T Series All-Plastic								
Basic D Series	•	•	•	1.1.1	•			
Series 1		•			•		•	•

"Conversion Chart between Standard Density Connectors and HPD/HTD Series 1.5 Density Connectors

Shell Size	Standard D-sub	1.5 D-Sub HTD
E	9	15
A	15	26
В	25	44
C	37	62
D	50	N/A



- Standard two-piece construction available in plastic, metallized plastic, or diecast zinc versions with 180° straight cable entry.
- Fits standard metal shell D-subminiature plugs and sockets as well as HTD Series 1.5 D-subs.
- Ethernet hoods are available in discast 15 position versions only with both 90° and 180° cable entry.
- Included in all backshells:
 - Hardware: 4-40 screws, hex nuts, 4-40 screw mounting bracket.
- Grommets: To accommodate most cable sizes. Grommets also function as strain reliefs.
- Backshells are individually bagged.
- Note that slide locks may not be used with these backshells.
- Optional thumbscrew for backshell must be ordered separately if required.

Materials

- 4-40 screws, hex nuts, mounting bracket: Steel with zinc plating and clear chromate coating.
- Standard Backshells:
 - Plastic Backshells: ABS (black), hardware steel with zinc plating, grommets polyphenylene, (black).
 - Metallized Plastic Backshells: ABS with nickel over copper plating, hardware steel with zinc plating, grommets - PVC (black).
 - Diecast Backshells: Diecast zinc, grommets PVC (black).
- Ethernet Backshells: Diecast zinc, grommets PVC (black).



Plastic



Metallized



Diecast



Ethernet Straight

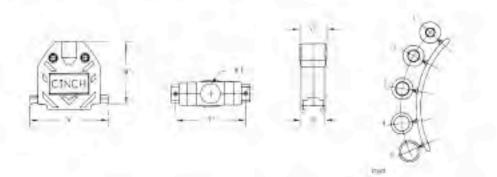


Ethernet Right-Angle

Cinch

Straight (180°) Standard Backshells

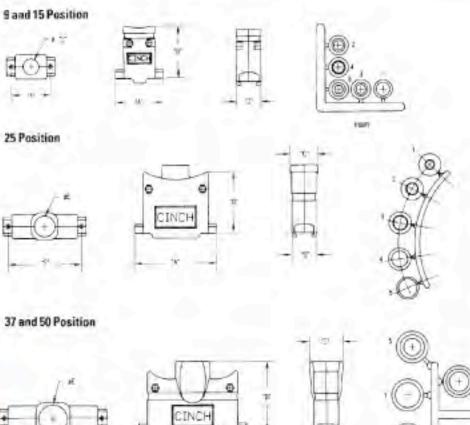
Plastic and Metallized Plastic Backshells



Dimensions

Shell		A	1	3	c			0	E			F
Size	in	mm	in	mm	in .	mm	in	mm	in	mm	in	mm
E	1.225	31.12	1.547	39.29	0.640	16.26	0.645	16.38	0.400	10.16	0.984	24.99
A	1.540	39.12	1.516	38.51	0.640	16.26	0.645	16.38	0.400	10.16	1.312	33.32
В	2.090	53.09	1.655	42.04	0.710	18.03	0.645	16.38	0.522	13.26	1.857	47.17
C	2.730	69.34	1.830	46.48	0.906	23.01	0.645	16.38	0.725	18.42	2.500	63.50
D	2.645	67.18	1.855	41.12	0.940	23.88	0.750	19.05	0.725	18.42	2.406	61.11

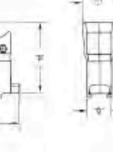
EMI/RFI Shielded Diecast Backshells











Cinch

Dimensions

Shell		A		B		С)			F	
Size	in	mm										
E	1.225	31.12	1.465	37.21	0.620	15.75	0.620	15.75	0.400	10.16	0.984	24.99
A	1.540	39.12	1.600	40.64	0.620	15.75	0.620	15.75	0.400	10.16	1.312	33.32
в	2.090	53.09	1.570	39.88	0.690	17.53	0.620	15.75	0.525	13.34	1.857	47.17
C	2,730	69.34	1.810	45.97	0.862	21.89	0.620	15.75	0.725	18.42	2.500	63.50
D	2.624	66.65	1.800	45.72	0.862	21.89	0.730	18.54	0,725	18.42	2.406	61.11

Ordering Information

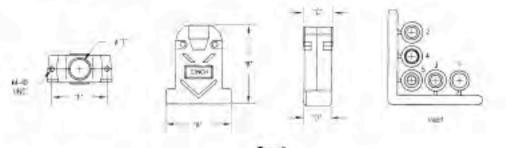
D*H Two-Piece Backshells

Shell Size	Fits Standard Density	Fits HTD 1.5 Density	Cable Entry Style	Plastic	Cable Dia. (in)	Metallized Plastic	Cable Dia. (in)	Diecast	Cable Dia. (in)
E	9	15	Straight (180°)	DPH-E-001	.210320	DCH-E-001	.210350	DMH-E-001	.210320
A	15	26	Straight (180°)	DPH-A-001	.210320	DCH-A-001	.210350	DMH-A-001	.210320
в	25	44	Straight (180°)	DPH-B-001	.230450	DCH-B-001	.230450	DMH-8-001	.230450
C	37	62	Straight (180°)	DPH-C-001	.350650	DCH-C-001	.350640	DMH-C-001	.350650
D	50	N/A	Straight (180°)	DPH-D-001	.350650	DCH-D-001	.350640	DMH-D-001	.350640

Call Toll Free: 1 (800) 323-9612

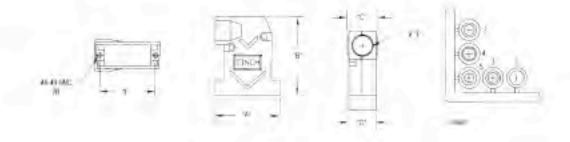
Cinch

Straight (180°) Diecast Ethernet Backshells



Type 2

Right-Angle (90°) Diecast Ethernet Backshells



Ordering Information

D*H Ethernet Diecast Backshells

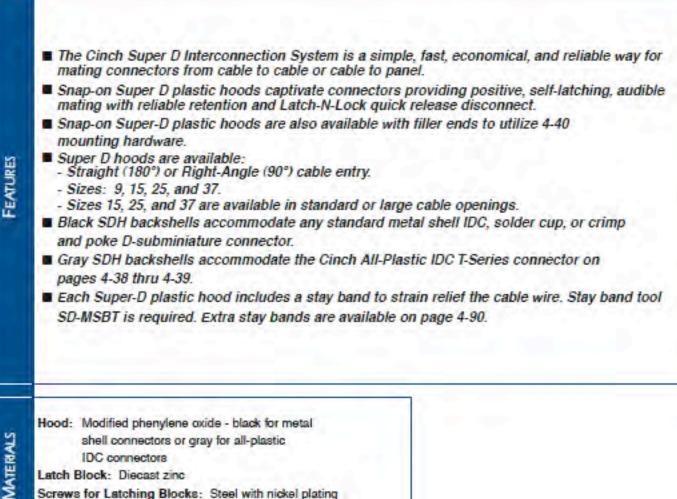
	Fits Standard	Cable	Cable Entry		Å		в			1.1	1		1.5		F	
Size		te Density	Diameter (in) Style		in	mm	in	mm	in	mm	in in	mm	in	mm	in	THE O
A	15	.210320	Straight (180")	DMH-A-001XL	1.550	39.37	1.880	47.75	0.710	18.03	0.64	16.26	0.522	13.26	1.312	33.32
A	15	.210320	Rt. Angle (90")	DMH-A-901X	1.550	39.37	1.880	47.75	0.710	18.03	0.64	16.26	0.522	18.26	1.312	33.32



THUMBSCREWS (OPTIONAL) FOR D*H BACKSHELLS Order #4-40-THMB-1 (two each required per backshell). (Will not work with ethernet type backshells)

D-subminiature Backshells - Super D SDH Series





Screws for Latching Blocks: Steel with nickel plating Stay Band: Steel with zinc plating and clear chromate finish



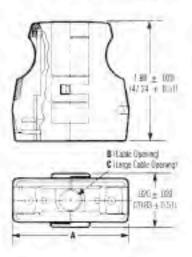


D-subminiature Backshells - For use with Metal Shell Connectors SDH Series



Straight (180°) Cable Entry Black Backshells for Metal Shell Connectors

Adapter Hood with Filler Ends

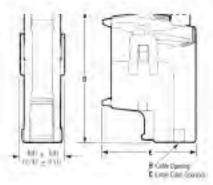




1.89 ± .001 (61 S5 ± 0.51) B (Data Openag) C (Large Cable Openag) C (Large Cable Openag) C (Large Cable Openag)

Right-Angle (90°) Cable Entry Black Backshells for Metal Shell Connectors

Right-Angle Adapter Hood





Dimensions

and the second second	A + .020	(.58mm)	B +.020"	(.58mm)	C ±.02	0" (.58mm)	D ±.020	" (.58mm)	E+.020"	(.58mm)
Positions	in	mm	in	mm	in	mm	in	mm	in	mm
9	1.47	37.34	.31	7.87	-	- +	1.94	49.21	1.25	31.75
15	1.80	45.72	.31	7.87	.41	10.41	2.25	57.15	1.34	34.13
25	2.35	59.69	.33	8.40	.47	11.94	2.94	74.61	1.50	38.10
37	2.99	75.95	.37	9.40	.50	12.70	3.59	91.28	1.53	38.89

Call Toll Free: 1 (800) 323-9612

Adapter Hood with Latches



Ordering Information

Straight (180°) Cable Entry Black Backshells for Metal Shell Connectors

	La	tches	Fil	ler Ends	Filler Ends w/4-40 Screws				
Positions	Standard Cable Opening	Large Cable Opening	Standard Cable Opening	Large Cable Opening	Standard Cable Opening	Large Cable Opening N/A			
9	SDH-9BL	N/A	SDH-9BF	N/A	SDH-9BFCS				
15	SDH-15BL	SDH-15BLL	SDH-15BF	SDH-15BFL	SDH-15BFCS	SDH-15BFLCS			
25	SDH-25BL	SDH-25BLL	SDH-25BF	SDH-25BFL	SDH-25BFCS	SDH-258FLCS			
37	SDH-37BL	SDH-37BLL	SDH-37BF	SDH-37BFL	SDH-37BFCS	SDH-37BFLCS			

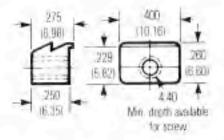
Right-Angle (90°) Cable Entry Black Backshells for Metal Shell Connectors

Ordering Information

Positions	Standard Cable Opening	Latches Large Cable Opening
9	SDH-9RBL	N/A
15	SDH-15RBL	SDH-15RBLL
25	SDH-25RBL	SDH-25RBLL
37	SDH-37RBL	SDH-37RBLL

4

Latching Blocks for Super D Adapter System



Ordering Information

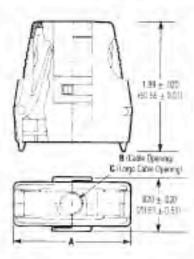
Description	For Panel Thickness	Oty per pack	Oty Required Per SDH Hood	Catalog Number
Latching Block	N/A	1 each	2 each	SD-LB
Latching Block with SEM Screws	Up to .060"	2 each	2 each	SD-LB-060
Removable Mounting Screws		19 Mar 1		and property for
for Adapter Hood	N/A	1 each	2 each	4-40UNC2AX3/4
Latching Block with SEM Screws	.060" to .080"	2 each	2 each	SD-LB-060-080
Latching Block with SEM Screws	.080" to .125"	2 each	2 each	SD-LB-125

D-subminiature Backshells - Gray with All-Plastic Connectors SDH Series

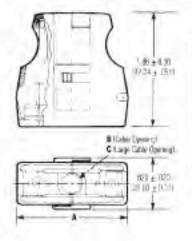
Cinch

Fits only T Series All-Plastic IDC connector on pages 4-38 thru 4-39.

Straight (180°) Cable Entry Gray Backshells for All-Plastic Connectors









Dimensions

	A ±.020	(.58mm)	B ±.020	" (.58mm)	C ±.020	(.58mm)
Positions	in	mm	in	mm	in	mm
9	1.47	37.34	.31	7.87	-	
15	1.80	45.72	.31	7.87	.41	10.41
25	2.35	59.69	.33	8.40	.47	11.94
37	2.99	75.95	.37	9.40	.50	12.70

Ordering Information

Straight (180°) Cable Entry Gray Backshells for All-Plastic Connectors

	La	tches	Fill	ler Ends	Filler Ends w/4-40 Screws				
Positions	Standard Cable Opening	Large Cable Opening	Standard Cable Opening	Large Cable Opening	Standard Cable Opening	Large Cable Opening			
9	SDH-9GL	N/A	SDH-9GF	N/A	SDH-9GFCS	N/A			
15	SDH-15GL	SDH-15GLL	SDH-15GF	SDH-15GFL	SDH-15GFCS	SDH-15GFLCS			
25	SDH-25GL	SDH-25GLL	SDH-25GF	SDH-25GFL	SDH-25GFCS	SDH-25GFLCS			
37	SDH-37GL	SDH-37GL SDH-37GLL		SDH-37GFL	SDH-37GFCS	SDH-37GFLCS			
_									

D-subminiature Backshells - Gray use with All-Plastic Connectors SDH Series



Right-Angle (90°) Cable Entry Gray Backshells for All-Plastic Connectors

Fits only IDC connectors on pages 4-38 thru 4-39.





Dimensions

States and	A ±.020	(.58mm)	B +.020	" (.58mm)	C +.020	* (.58mm)	D +.020" (.58mm		
Positions	in	mm	in	mm	in	mm	in	mm	
9	1.94	49.21	.31	7.87	-	-	1.25	31.75	
15	2.25	57.15	.31	7.87	.41	10.41	1.34	34.13	
25	2.94	74.61	.33	8.40	.47	11.94	1.50	38.10	
37	3.59	91.28	.37	9.40	.50	12.70	1.53	38.89	

Ordering Information

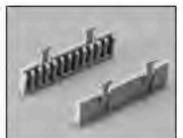
Right-Angle (90°) Cable Entry Gray Backshells for All-Plastic Connectors

Positions	Standard Cable Opening	Latches Large Cable Opening
9	SDH-9RGL	N/A
15	SDH-15RGL	SDH-15RGLL
25	SDH-25RGL	SDH-25RGLL
37	SDH-37RGL	SDH-37RGLL

Ordering Information

Accessories for Gray Backshells

Positions	Optional Strain Reliefs*	Additional Stay Bands**					
9	SD-WC9	SD-9-15-SB					
15	SD-WC15	SD-9-15-SB					
25	SD-WC25	SD-25-37-SB					
37	SD-WC37	SD-25-37-SB					





* Two each required per backshell.

" Stay band tool #SD-MSBT required. See page 4-100..

Screw for screwlocking connector assembly - (2 each required): 4-40UNC2AX3/4.

See page 4-85 for latch block drawing.

Call Toll Free: 1 (800) 323-9612

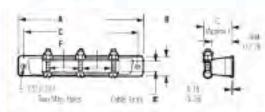
D-subminiature Junction Shells

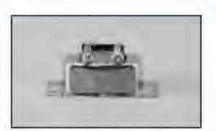
Cinch

MATERIALS

- Shell Material: Zinc-plated low carbon steel with yellow chromate finish.
- Clamp: Zinc-plated steel with yellow chromate finish.
- Screw: Zinc-plated steel with yellow chromate finish.
- Stop Nut: Zinc-plated brass with yellow chromate finish.

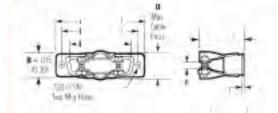
Straight Clamp





Shell	A	A			3		C	E	1			(3
Size	Positions	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	15	1.531	38.89	500	12.70	1.312	33.32	.296	7.52	.312	7.92	.640	16.26
B	25	2.078	52.78	.500	12.70	1.852	47.04	.296	7.52	.796	20.22	.640	16.26
C	37	2.718	69.04	500	12.70	2.500	63.50	296	7.52	.687	17.45	.640	16.26
D	50	2.625	66.68	.609	15.47	2.406	61.11	.390	9.91	.687	17.45	.703	17.86

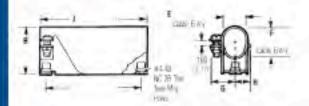
Round Clamp





Shell	1000	A		8		C		D		E		F		G	
Size	Positions	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	15	1.531	38.89	.500	12.70	1.312	33.32	.406	10.31	.984	23.72	.125	3.18	1.031	26.19
B	25	2.078	52.78	.500	12.70	1.852	47.04	.593	15.06	1.515	38.48	.187	4.75	1.062	26.97

Right-Angle Clamp



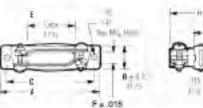


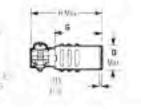
Sheli	A		A	8		C		E		F		G		н	
Size	Positions	in	mm	in	mm	in	mm	in	mm	in	mm	in	11111	in	mm
E	9	1.203	30.56	0.718	18.24	.984	24.99	.437	11.10	.437	11.10	.468	11.89	.281	7.14
A	15	1.531	38.89	0.718	18.24	1.312	33.32	.437	11.10	.437	11.10	.468	11.89	.281	7.14
B	25	2.078	52.78	0.968	24.59	1.852	47.04	.437	11.10	.625	15.88	.468	11.89	.281	7.14
C	37	2,718	69.04	1.187	30.15	2.500	63.50	.437	11.10	.812	20.62	.468	11.89	.281	7.14
D	50	2.625	66.68	1.250	31.75	2.406	61.11	.562	14.27	.906	23.01	.531	13.49	.343	8.71

D-subminiature Junction Shells



Deep Straight Clamp







Shell	and the second		A	-	8		C		D		E		F		G		4
Size	Positions	in	mm	in.	mm	in	mm	in	mim	in	mim	in	mm	in	mm	in	mm
E	9	1.203	30.56	.484	12.29	0.984	24.99	.578	14.68	.375	9.53	.375	9.53	.750	19.05	1.219	30.96
A	15	1.531	38.89	.484	12.29	1.312	33.32	.578	14.68	.713	18.11	.312	7.92	.750	19.05	1.250	31.75
в	25	2.078	52.78	.484	12:29	1.852	47.04	.578	14.68	1.000	25.40	.312	7.92	1.000	25.40	1.531	38.89
C	87	2.718	69.04	.484	12:29	2.500	63.50	.578	14.68	1.375	34.93	.312	7.92	1.000	25.40	1.531	38.89
0	50	2.625	66.68	.593	15.06	2.406	61.11	.687	17.45	1,406	35.71	.406	10.31	1.125	28.58	1.656	42.06

Switching Shell





Shell	10 million 1	1000	A		в	С		
Size	Positions	in	mm	in	mm	in	mm	
A	15	1.531	38.89	.500	12.70	1.312	33.32	
В	25	2.078	52.78	.500	12.70	1.852	47.04	
C	37	2.718	69.04	.500	12.70	2.500	63.50	
D	50	2.625	66.68	.609	15.47	2.406	61.11	

Ordering Information

Junction Shells - Metal

Tite.

Shell Size	Standard	Straight Clamp	Round Clamp	Right-Angle Clamp	Deep Straight Clamp	Switching Shell
E	9	N/A	N/A	DE-19977-5	DE-24657	N/A
A	15	DA-19678-1	DA-20961	DA-19977-1	DA-24658	DA-19678-6
В	25	DB-19678-2	DB-20962	DB-19977-2	DB-24659	DB-19678-7
C	37	DC-19678-3	N/A	DC-19977-3	DC-24660	DC-19678-8
D	50	DD-19678-4	N/A	Di BCott9977otl	DD-24661	DD-19678-9

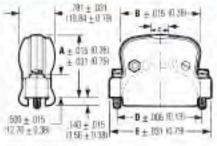
D-subminiature Plastic Hoods



Phenolic Hood

Shell Material: Phenolic (black). #4-40 Screws: Steel with nickel plating.



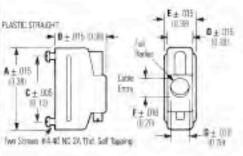


Shell	1000	100	A	1	B	(2	1)		
Size	Positions	in	mm	in	mm	in	mm	in	mm	in	mm
A	15	1.297	32.94	1.219	30.96	.266	6.76	1.312	33.32	1.641	41.68
B	25	1.406	35.71	1.797	45.64	.328	8.33	1.852	47.04	2 203	55.96

All-Plastic Straight (180°) Hood

Shell Material: Nylon (gray). #4-40 Screws: Steel with nickel plating.



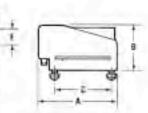


Shell	Sec. 16		A		3	_	C		0				F	1.2	G
Size	Positions	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
E	9	1.218	30.94	1.000	25.40	.984	23.72	.500	12.70	.562	14.27	.281	7.14	.218	7.14
A	15	1.546	38.27	1.000	25.40	1.312	33.32	.500	12.70	.562	14.27	.360	9.14	.360	9.14
В	25	2.093	53.16	1.250	31.75	1.852	47.04	.500	12.70	.562	14.27	.493	12.52	.360	9.14

All-Plastic Right-Angle (90°) Hood

Shell Material: Nylon (gray). #4-40 Screws: Steel with nickel plating.





Shell	A second		A	1	8		C)	1		1	
Size	Positions	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	15	1.822	46.28	1.000	25.40	1.312	33.32	.500	12.70	.562	14.28	.360	9.14
B	25	2.368	60.15	1.250	31.75	1.852	47.04	.500	12.70	.562	14.28	.360	9.14

Ordering Information

Plastic Hoods

Shell	Standard	Phenolic	Straight	Right
Size	Density	Hood	Hood	Angle
E	9	N/A	DE-51218-1	N/A
Α	15	DA-51225-1	DA-51210-1	DA-51211-1
В	25	DB-51226-1A	DB-51212-1	DB-51213-1
C	37	N/A	N/A	N/A
D	50	N/A	N/A	N/A
-				

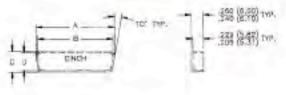
Call Toll Free: 1 (800) 323-9612

D-subminiature Accessories

Cinch

Dust Caps

- For use with all Cinch D-subminiature connectors.
- Used to protect connector contacts when connector is not mated.
- · Made of polyethylene (black).



Ordering Information

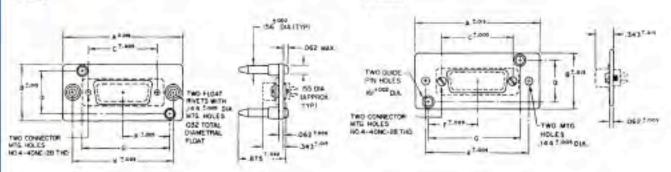
Fits	Fits Standard	(merele			A		в		c		D
Size	Density	Catalog No.	Description	in	mm	in	mm	in	mm	in	mm
E	9	DE-59-20	Socket	.694	17.63	.627	15.93	.362	9.19	.295	7.49
E	9	DE-60-20	Plug	.749	19.02	.682	17.32	.412	10.46	.345	8.76
A	15	DA-59-20	Socket	1.022	25.95	.955	24.25	.362	9.19	.295	7.49
A	15	DA-60-20	Plug	1.077	27.36	1.010	25.65	.412	10.46	.345	8.76
B	25	DB-59-20	Socket	1.562	39.67	1.495	37,97	.362	9.19	.295	7.49
B	25	DB-60-20	Plug	1.635	41.52	1.568	39.83	.430	10.92	.363	9.22
C	37	DC-59-20	Sockat	2,210	56.13	2.143	54.43	.362	9.19	295	7.49
C	37	DC-60-20	Plug	2.283	57.99	2.216	56.29	.430	10.92	.363	9.22
D	50	DD-59-20	Socket	2116	53.75	2.049	52.04	.474	12.04	.407	10.34
D	50	DD-60-20	Plug	2179	55.35	2.112	53.64	.536	13.61	.469	11.91
_											_

Guide Pin Plates

- Aligns connectors before actual mating. Generally used in blind mate applications.
- Male or female guide plates will accommodate Cinch male or female connectors.
- Plate: Cold-rolled steel with cadmium plating and yellow chromate finish.
- Guide pin (male): Stainless steel, passivated.
- · Screws, rivets (male plate), washers (male plate): Steel with cadmium plating and yellow chromate finish.

Plug

Socket



Ordering Information

Fits Shell	Standard	N			Ā		в		0		D		F		G	5.6	к
Size	Density	Plug	Socket	In	mm	in	mm	in	mm	in	mm	In	0100	in	mm	in	mm
E	9	N/A	N/A			186.5		100		-	2						1.1.1
A	15	DA-22218	DA-22214	2.281	57.93	1.000	25.40	1.312	33.32	.750	19.05	.898	22.81	1.663	42.24	1,906	48,41
в	25	DB-22255	DB-22254	2.820	71.63	1.000	25.40	1.852	47.04	.750	19.05	1.168	29.67	2.203	55.96	2.446	82.13
C	87	DC-22070	DC-22071	3.468	88.09	1.000	25.40	2.500	63.50	.750	19.05	1.492	37.90	2.851	72.42	3.094	78.59
D	50	DD-21952	DD-21961	3.875	85.73	1.125	28.58	2,405	61.112	.874	21.88	1.437	38.50	2.749	69.82	3.000	76.20
				_				_		_			_		_		

D-subminiature Accessories

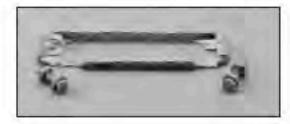
Cinch

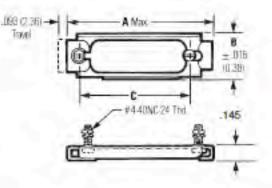
Slide Lock Assemblies

- A slide lock assembly is a metal bracket offered with hardware necessary to mount into the standard connector mounting holes. It consists of the lock retainer plate, two screws, two washers, and two nuts. Two lock posts are required to fit into the mounting holes of the mating connector. These must be ordered separately.
- · Compatible with all Cinch Backshells, Hoods, and Junction Shells except D'H Series, SDH Series, and phenolic hood.
- · Compatible with all Cinch metal shell D-subminiature connectors.

Materials

- Slide Lock Plate: Stainless steel, passivated.
- Slide lock hex nut, washer #4-40 screw: Steel with zinc plating and yellow chromate finish.
- · Lockpost, washer, lockwasher, and hex nut: Steel with zinc plating and yellow chromate finish.





Consists of Lock Retainer and two lock posts (order separately). NOTE: Not compatible with D*H Series or SDH Series backshells.

Ordering Information

Shell	Fits Standard	Lock	101	A	1.00	в		C
Size	Density	Retainer	in	mm	in	mm	in	mm
E	9	DE-51224-1	1.442	36.63	.500	12.70	0.984	24.99
A	15	DA-51220-1	1.770	44.96	.500	12.70	1.312	33.27
в	25	DB-51221-1	2.293	58.24	.500	12.70	1.852	47.04
C	37	DC-51222-1	2.958	75.13	.500	12.70	2.500	63.50
D	50	DD-51223-1	2.847	72.31	.609	15.47	2.406	62.48

Lock Post: #D53018. Two (2) required with each Slide Lock Assembly.

D-subminiature Hardware Accessories



Screwlocks

- Screwlocks are designed to retain the same size mated connectors together or to secure the connector to a rack/panel.
 Screwlocks may be used on plugs or sockets.
- Female screwlocks consist of one #4-40 screw with a #4-40 hole in the top, two flat washers to accommodate different panel thicknesses, one lockwasher, and one #4-40 nut. Military female screwlocks include three flat washers.
- Male screwlocks consist of one #4-40 slotted screw and a spring tension clip. Different sizes accommodate the various connector flange sizes and types of backshells or hoods (if applicable).
- Two screwlocks are required per connector.
- Military screwlocks meet all requirements of MIL-C-24308.

Materials

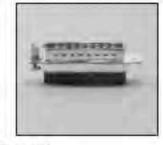
Commercial Screwlock Assemblies:

- Male Screwlock Assembly: Clip and screw are steel with zinc plating and yellow chromate finish.
- Female Screwlock Assembly: Washers (2), lockwashers, hex nuts, and nuts are steel with zinc plating and yellow chromate finish.

M24308 Military Screwlock Assemblies:

- Male Screwlock Assembly: Clip and screw are steel with cadmium plating and yellow chromate finish.
- Female Screwlock Assembly: Washers (3), lockwashers, hex nuts, and nuts are steel with cadmium plating and yellow chromate finish.





Female Screwlock





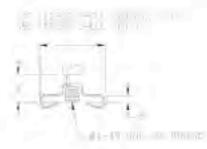
Male Screwlock

D-subminiature Accessories

Cinch

· Screwlock assemblies will not fit D*H or SDH Series backshells.

Male Screwlocks

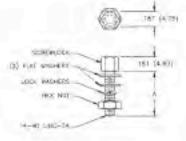


Ordering Information

Shell Size					E	A	В	C	D
Positions					9	15	25	37	50
	1	A	В	1 - L -					
	in	mm	in	mm					
Commercial:	- Area			-			- 24		1
D20419-0	0.250	56.35	0.033	0.84	P/S	P/S	S	S	
D20419-16	0.250	56.35	0.048	1.22	S'	S*	P/S*	P/S*	-
D20419-21	0.281	63.34	0.059	1.50		P*	P*		
D20420-0	0.250	56.35	0.033	0.84		~ 2			S
D20420-12	0.281	63.34	0.048	1.22					P/S
D20420-15	0.281	63.34	0.059	1.50					P*
Military MIL-C-	24308-								
M24308/25-9F	Per MI	L spec			P/S	P/S	P/S	P/S	
M24308/25-10F									P/S

NOTE: P = Plug, S= Socket * Indicates use with junction shall

Female Screwlocks



Ordering Information

Shell Size		E	A	В	С	D
Positions		9	15	25	37	50
	in m	m	- 21			
Commercial:		and the second second			1.24	1.2
D20418-2	0.312 70	32 P/S	P/S	P/S	P/S	P/S
D20418-39	0.628 141	55 P/S	P/S	P/S	P/S	P/S
Military MIL-C-24308: M24308/26-1F	Per MIL spec	P/S	P/S	P/S	P/S	P/S
M24308/26-2F	Per MIL spec		P/S	P/S	P/S	P/S

NOTE. P = Plug, S= Socket

IDC Termination Tools

Auto-Clinch[™] D Semi-Automatic Termination Tool

Auto Clinch D is a semi-automatic, pneumatically powered, and electrically controlled termination machine designed to terminate IDC D-subminiature connectors. It employs a selective programmer and a common nest for all four connector sizes and can be equipped to terminate metal shell connectors. It can also be optionally equipped with remote visual color code display for training sequences. It has a provision for omission of wires.

Part No.: ACD-432

Certi-Clinch[™] D Field Termination Tool *For 24-26 AWG Wire

Certi-Clinch D is designed for mass termination of individual wires, eliminating wire stripping, soldering, and crimping. It handles all four connector sizes, is readily portable, and requires no set-up time and little operator time. Rugged, all-metal construction affords trouble-free long life.

For metal shell IDC D-subminiature connectors. Part No. SD-CCWN

For all-plastic IDC D-subminiature connectors. Part No. SD-CC

Conversion nest for converting all-plastic type to metal shell. Part No. SD-CCN

Uni-Clinch[™] D Single-Wire Hand Insertion Tool

Designed to insert one 22-26 AWG wire at a time, Uni-Clinch D is used as a field repair tool by field service engineers.

Part No. SD-UC

Super D[™] Manual Stay Band Tool

Designed for applying the steel stay band/strain relief to the cable before termination of wires to the connector, the manual Stay Band Tool applies both stay band sizes to the full range of cable sizes.

Part No. SD-MSBT

Auto-Clinch D Tool

Certi-Clinch D Field Termination Tool

Insertion Tool

Uni-Clinch Hand

NOTE: All termination tools on this page are used in conjunction with T* Series D-subminiature connectors.

Call Toll Free: 1 (800) 323-9612













Manual Tool

Crimp and Poke Termination Tools

Cinch

Hand Crimping Tool for Stamped Contact 300 PC Reels

Two types of transport for connector chains are available with crimping ranges of 20 through 30 AWG for B crimpings

Service and the service of the servi	Part Number
D'A Series	
20 through 26 AWG Wire	GHG-B
D'A Series U U II U II	HUCU-
28 through 30 AWG Wire	GHC-B1
HTD Series	HTD-266



Contact Crimp Hand Tool (300 Contact Reel)

Hand Crimping Tool for Loose Stamped Contacts

	Part Number HTD-544	
D*A Series		
D*U Series	BT-20-HC	
HTD Series	HTD-544	



Contact Crimp Hand Tool (HTD-544)



Contact Crimp Hand Tool (BT-20-HC)

Contact Insertion/Extraction Tool for Stamped Contacts

Part Number	
CIET-20-HDB	
CIET-20-HDB	
CIET-22-DF	



Contact Insertion/Extraction Hand Tool For D*A and D*U Series for Stamped Contacts (CIET-20-HDB)



Contact Insertion/Extraction Hand Tool For D1/2 Contacts (CIET-22-DF)

Crimp and Poke Termination Tools

Cinch

Semi-Automatic Stripping and Crimping Tool

Advantages and Characteristics

- · Stripping and crimping in one easy operation
- · Easy to install and adjust
- Requires little maintenance
- · Wearing parts replaced in a matter of minutes
- . Long service life thanks to best-quality materials
- Different quick change applicators in the same stripper crimper
- Increased productivity



Our GSC-20-30 crimp machine in operation with stripper crimpler and guick change tool

Ordering Information

Description	Part Number	Comments	Catalog Number
D'A Series	599-11-11-578	Comes equipped with the applicator	GSC-20-30
Stripper Crimper Only	FAA 44 47 454	for 20-24 AWG contacts	030-20-30
D*A Series	598-98-97-630	Applicator only	
Applicator Only		For 20-24 AWG contacts	ASC-20-24
For 20-24 AWG			
D*A Series	598-98-97-632	Applicator only	and the second second
Applicator Only		For 26-30 AWG contacts	ASC-26-30
For 28-30 AWG			
HTD Series	599-11-11-518	Comes equipped with applicator	
Stripper Crimper Only		for 22-28 AWG contacts	HTD-518
HTD Series	598-98-97-636	Applicator only	the second second second
Applicator Only		For 22-28 AWG contacts	ASC-DH
22-28 AWG			
D*U Series	599-11-11-258	Comes equipped with applicator	ECC 20.2
Stripper Crimper Only		for 20-28 AWG contacts	ESC-20-3
D*U Series	598-98-97-638	Applicator only	
Applicator Only 20-28		For 20-28 AWG contacts	ASC-DU

Stripper Crimper

Stripper Crimper Spare Parts

Part Number	Description	Catalog Number
598-98-97-631	D*A Punch & Anvil Kit 20-24 AWG	SCPA-631
598-98-97-633	D*A Punch & Anvil Kit 26-30 AWG	SCPA-633
598-98-97-637	HTD Series Punch & Anvil Kit	SCPA-637
598-98-97-639	D*U Series Punch & Anvil Kit	SCPA-639
598-98-97-640	Stripping Blades for 20-24 AWG Wire	SCSB-640
598-98-97-641	Stripping Blades for 26-30 AWG Wire	SCSB-641
598-98-97-642	D'A Series Contact shear blade	SCCS-642
598-98-97-643	Shear blade holder	SCSH-643
598-98-97-644	Sensor switch	SCSS-644
598-98-97-645	Strip blade holder	SCBH-645

Crimp and Poke Termination Tools





M22520/2-01



CIET-20-HD



CET-20-11



CET-C6B



FCT-551



FCT-552

Metal Shell High-Reliability Crimp and Poke Termination Tool

Hand crimping tool for high-reliability machined D*U, Series 3, and M24308 Crimp and Poke contacts. M22520/2-01

NOTE: Positioner required with crimping tool

Metal Shell Military Crimp and Poke Insertion/Extraction Tool

For inserting or extracting machined D*U, Series 3, or M24308 Crimp and Poke contacts. Part No : CIET-20-HD

Military Extraction Tip Only

For extracting high-reliability machined D*U, Series 3, or M24308 Crimp and Poke contacts. Part No.: CET-20-11

Coaxial and High-Voltage Contact Extraction Tool

For extracting co-axial and high-voltage contacts from metal shell high-reliability connectors.

Part No : CET-C6B

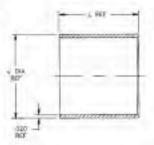
Pneumatic Bench Top Press for Crimping Ferrules

This lightweight, portable press is used to crimp the ferrules on the overmold shielding hardware kits. Crimp dies ordered separately.

Part No.: 599-11-11-551 Catalog No.: FCT-551

Hand Tool for Crimping Ferrules and Coax Contacts

Uses same crimp dies as pneumatic tool. Part No.: 599-11-11-552 Catalog No.: FCT-552



Catalog Number	Part Number	Type	Crimp Die Part No.	Crimp Die Catalog No.
CF-51	462-44-22-451		598-98-97-607	CD-07
CF-42	482-44-22-442	1	558-98-97-600	CD-00
CF-43	462-44-22-443	1	598-98-97-601	CD-01
CF-44	482-44-22-444	1	598-98-97-602	CD-02
CF-45	462-44-22-445	1	598-98-97-603	CD-03
CF-46	462-44-22-446	1	598-98-97-604	CD-04
CF-47	462-44-22-447	2	598-98-97-605	CD-05
CF-50	482-44-22-450	2	598-98-97-606	CD-06

Crimp Ferrule

Positioner-A device when attached to a crimping tool that locates the contact in the correct position.

Positioner for machined contacts D*U Series Positioner Part No.: 599-11-11-580 Catalog No.: EP-580 Series 3 and M24308 Connector Positioner Part No.: 598-98-97-618 Catalog No.: M22520/2-08

4-103