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 (except right-angle PCB connectors-9, 15, and 25 positions).
- Available with gold flash or 30μin. gold plating.
- Offered with .120 mounting holes, optional 4-40 clinch nuts, or dual float bushings (except right-angle PCB connectors-mounting holes only).
- 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 (grounding indents

on plug)

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)

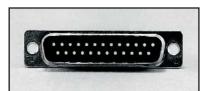
after environmental testing

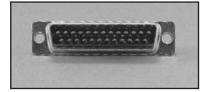


Individual Contact Insertion and

Separation Force (minimum/maximum): 0.7 oz./12 oz.

Durability: 500 mating cycles













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.

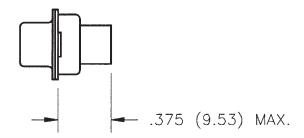
For Positioner as required see page 4-103.

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	ch 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

	Mounting Holes		4-40 Cli	inch Nuts Dual Float Bushings		t Bushings
	Contacts	Without	Contacts	Without	Contacts	Without
Position	Included	Contacts	Included	Contacts	Included	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 Clinch Nuts		Dual Float Bushings				
	Contacts	Without	Contacts	Without	Contacts	Without			
Position	Included	Contacts	Included	Contacts	Included	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	nch Nuts Dual Float Bushings		t Bushings
	Contacts	Without	Contacts	Without	Contacts	Without
Position	Included	Contacts	Included	Contacts	Included	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

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



FEATURES

- Offered in Wire Wrap and Solder Cup styles for wire termination and vertical style for PCB mount.
- Offered with .120 mounting holes, 4-40 clinch nuts, and dual float bushings.
- Offered in 9, 15, 25, 37, and 50 position plugs and sockets.
- Available with gold flash or 30μin. gold plating.
- 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 polyester (white), UL 94V-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

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 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

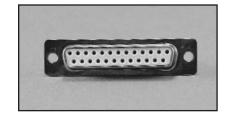


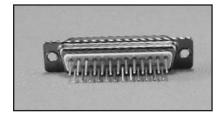
Individual Contact Insertion and

Separation Force (minimum/maximum): 0.7 oz./12 oz.

Durability: 500 mating cycles









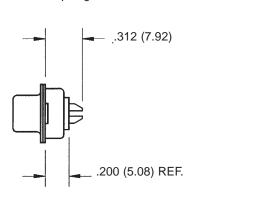
D-subminiature Metal Shell Solder Cup Basic D Series



- · 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

	Mounting Holes		4-40 Cli	nch Nuts Dual Float Bushing		at 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	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

	Mounti	ng 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-II	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 Clin	0 Clinch Nuts Dua		al Float Bushings	
Positions	Gold Flash	30μin. Gold	Gold Flash	30μin. Gold	Gold Flash	30μin. Gold	
9	DE-9P-SM	DE-9P-SM-30	DEE-9P-SM	DEE-9P-SM-30	DEY-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	DCE-37P-SM-30	DCY-37P-SM	DCY-37P-SM-30	
50	DD-50P-SM	DD-50P-SM-30	DDE-50P-SM	DDE-50P-SM-30	DDY-50P-SM	DDY-50P-SM-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 and solder cup version for wire termination.
- Commercial version of M24308 military connectors with tin-plated or zinc-plated shell and 30µin. gold plating.
- Monoblock green diallyl phthalate insulator for improved electrical performance.
- Machined contacts for precision performance.
- Offered in 9, 15, 25, 37, and 50 (except right-angle version) position plugs and sockets.
- Offered with .120 mounting holes, 4-40 clinch nuts (except right-angle version), or dual float bushings (except right-angle version).
- 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 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



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

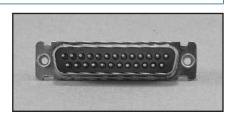
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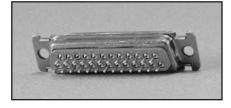


Individual Contact Insertion and

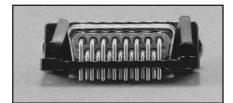
Separation Force (minimum/maximum): 0.7 oz./12 oz.

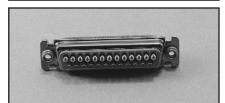
Durability: 500 mating cycles







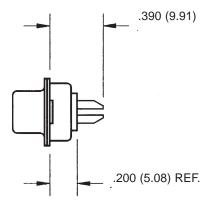




D-subminiature Metal Shell Solder Cup Series 1 - High Reliability



Will accommodate up to 20 AWG wire.



Ordering Information

Solder Cup Plugs

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

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