

# 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

## MECHANICAL

**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.

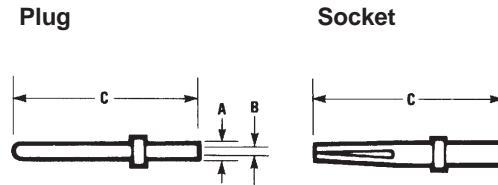
For Positioner as required see page 4-103.

Stamped Contacts #BT-20-HC see page 4-101.

No positioner required.

# D-subminiature Metal Shell Crimp and Poke Contacts D\*U Series

## Machined Contacts • 20-24 AWG Wire



### Dimensions

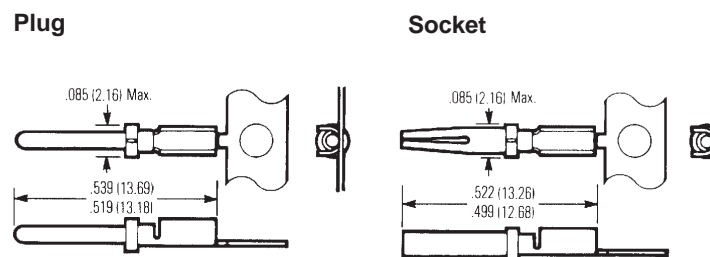
Description	Wire AWG	A		B		C Max.	
		in	mm	in	mm	in	mm
Pin	#20, 22, 24	.066	1.67	.045	1.14	.537	13.64
Socket	#20, 22, 24	.066	1.67	.045	1.14	.523	13.28

### 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



### Ordering Information

#### D\*U Series Stamped Contacts on 10K Reels

	Gold Flash	30µin. Gold
Pin	BCL-1964-20P	D110238-034
Socket	BCL-1963-20S	D110238-035