

# ICT-50C and S-50C Size 50C - .050 Centers

## BeCu PLUNGER TIPS

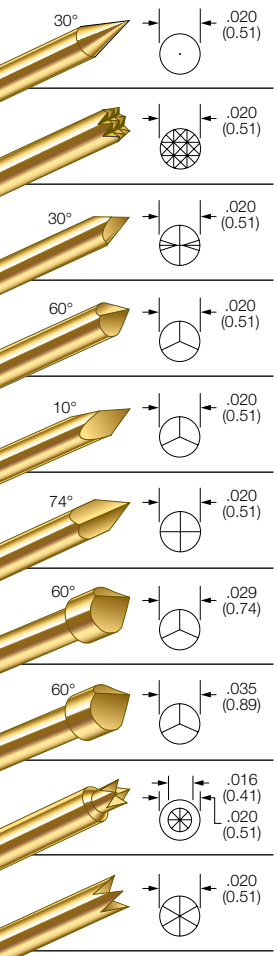


A

J

V8

## STEEL PLUNGER TIPS



B

HS

M

S

SP

SW

T

TL

UR

Z

## PROBE SPECIFICATIONS

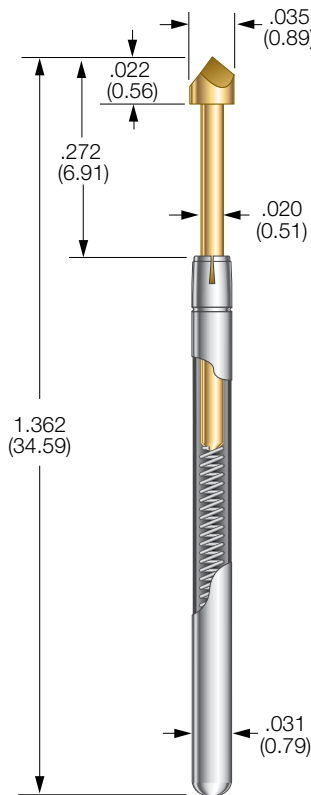
**Minimum Centers:** .050 (1.27)  
**Current Rating:** 3 amps continuous  
**Spring Force:** 4.3 or 5.6 oz. @ .170 (4.32) travel  
**Typical Resistance:**  
 < 20 mΩ for ICT-50C  
 < 25 mΩ for S-50C  
**Maximum Travel:** .250 (6.35)  
**Working Travel:** .170 (4.32)

| Rated Force<br>oz. (g) | Preload<br>oz. (g) | Material |
|------------------------|--------------------|----------|
| 4.3 (122)              | 1.9 (54)           | SS       |
| 5.6 (159)              | 2.1 (60)           | MW       |

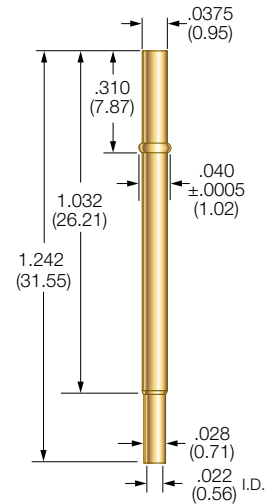
## MATERIALS

**Barrel:** Nickel/silver, gold lined  
**Spring:** Music wire, nickel plated or stainless steel  
**Plunger:** Beryllium copper or steel, gold plated over nickel  
**Receptacle:** Beryllium copper, preplated gold, gold plated post  
**Terminal:** Beryllium copper, preplated gold

## ICT-50C/S-50C PROBE



## R-50C Receptacle



**Drill Size:** #61  
**Mounting Hole Size:** .0385/.0390 (0.98/0.99)  
**Recommended Wire:** 28-30 gage

## RECEPTACLE OPTIONS

| Part Number  | Style              | Receptacle Length | Probe/Receptacle Combined Length | Comments                              |
|--------------|--------------------|-------------------|----------------------------------|---------------------------------------|
| R-50C-CR     | Crimp              | 1.242 (31.54)     | 1.572 (39.92)                    | —                                     |
| R-50C-SC     | Solder Cup         | 1.242 (31.54)     | 1.572 (39.92)                    | —                                     |
| R-50C-WW-016 | Wire Wrap          | 1.492 (37.89)     | 1.822 (46.27)                    | .250 post length - .016 sq.           |
| R-50C-WW-025 | Wire Wrap          | 1.542 (39.16)     | 1.872 (47.55)                    | .300 post length - .025 sq.           |
| R-50C-DS     | Duraseal®          | 1.242 (31.54)     | 1.572 (39.92)                    | 30 gage wire, vacuum sealed*          |
| R-50C-WT     | Plug-In Receptacle | 1.242 (31.54)     | 1.572 (39.92)                    | For use with FP-Plug plug-in terminal |
| FP-Plug      | Plug-In Terminal   | —                 | —                                | Plugs into R-50C-WT receptacle*       |

\* Unless otherwise specified, wire length 36", strip length 1", 30 gage Kynar

## HOW TO ORDER: SPRING CONTACT PROBE

|            |            |           |              |                 |                      |
|------------|------------|-----------|--------------|-----------------|----------------------|
| <b>ICT</b> | <b>50C</b> | <b>T</b>  | <b>5.6</b>   | <b>DG</b>       | <b>S</b>             |
| SERIES     | SIZE       | TIP STYLE | SPRING FORCE | PLATING OPTIONS | STEEL PLUNGER OPTION |

**SERIES:**  
 ICT: HIGH PERFORMANCE  
 S: STANDARD PERFORMANCE,  
 (NO BIFURCATED BEAM)

**CRIMPING PLIERS:** CPR50C  
**INSERTION TOOL:** RTR50C

**SPRING FORCE:**  
 4.3 oz. @ .170 (4.32) TRAVEL  
 5.6 oz. @ .170 (4.32) TRAVEL

## RECEPTACLE

|          |            |             |
|----------|------------|-------------|
| <b>R</b> | <b>50C</b> | <b>CR</b>   |
| SERIES   | SIZE       | TERMINATION |

**TERMINATIONS:**  
 CR: CRIMP  
 SC: SOLDER CUP  
 WW-016: WIRE WRAP .016 SQ  
 WW-025: WIRE WRAP .025 SQ

**DS: DURASEAL\***  
**WT: PLUG-IN RECEPTACLE\*\***

\* UNLESS OTHERWISE SPECIFIED, WIRE LENGTH 36", STRIP LENGTH 1", 30 GAGE KYNAR. 12" & 36" STANDARD.

\*\*FOR USE WITH FP-PLUG PLUG-IN TERMINAL. 12" & 36" STANDARD.

VIEW UPDATES OF THIS INFORMATION AT [WWW.IDINET.COM](http://WWW.IDINET.COM)

Specifications subject to change without notice. Dimensions in inches (millimeters)

# Mouser Electronics

Authorized Distributor

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[R-100-WW-1044](#) [R-075-WW-694](#) [R-100-WW-694](#) [S-50C-T-5.6-DG-S](#) [R-00-W-390](#) [R-075-WW-1044](#) [S-50C-A-3.2-DG](#) [ICT-50C-B-4.3-DG-S](#) [ICT-50C-B-5.6-DG-S](#) [RX-0-CR](#) [R-0-PW-36-1\(RSS50PW\) VIOLET](#) [R-00-W-390-12-1 R-SS-40-W-390-12-1 BL30G](#) [R-0-DS-12-1 RSS50DS BLUE 30G](#) [R-0-DS-36-1 RSS50DS BLUE 30G](#) [R-50J-DS-12-1 RJ-0-DS-12-1 BLUE 30G](#) [R-50J-DS-36-1 RJ-0-DS-36-1 BLUE 30G](#) [RX-0-DS-36-1 RXSS50DS BLUE 30G](#) [R-00-W-500-12-1 R-SS-40-500-12-1](#) [R-00-WW-390 RSS40WW FP-R-00-WW](#) [R-00-WW-500](#) [RX-0-WT RXSS50WT](#) [R-50J-WT RJ-0-WT](#) [R-075-S-DE](#) [R-075-U-DE](#) [R-50C-B-DE](#) [R-50C-U-DE](#) [ICT-50C-M-5.6-DG-S](#) [ICT-50C-M-4.3-DG-S](#) [ICT-50C-R-5.6-DG-S](#) [ICT-50C-R-4.3-DG-S](#) [ICT-50C-SW-5.6-DG-S](#) [ICT-50C-SW-4.3-DG-S](#) [ICT-50C-SP-5.6-DG-S](#) [ICT-50C-SP-4.3-DG-S](#) [ICT-50C-T-5.6-DG-S](#) [ICT-50C-TL-5.6-DG-S](#) [ICT-50C-V8-4.3-DG](#) [ICT-50C-Z-5.6-DG-S](#) [ICT-50C-C-5.6-DG](#) [ICT-50C-C-4.3-DG](#) [ICT-50C-U-5.6-DG-S](#) [ICT-50C-U-4.3-DG-S](#) [S-50C-A-5.6-DG](#) [S-50C-A-4.3-DG](#) [S-50C-B-5.6-DG-S](#) [S-50C-B-4.3-DG-S](#) [S-50C-M-4.3-DG-S](#) [S-50C-T-4.3-DG-S](#) [S-50C-Z-4.3-DG-S](#) [S-50C-HS-5.6-DG-S](#) [S-50C-M-5.6-DG-S](#) [S-50C-Z-5.6-DG-S](#) [R-00-W.500-36-1](#) [S-50C-J-5.6-DG](#) [S-50C-V8-3.2-DG](#) [R-100-B-DE](#) [R-100-U-DE](#) [S-50C-J-4.3-DG](#) [ICT-50C-V8-5.6-DG](#) [R-50C-DS](#) [R-50C-WT](#) [ICT-50C-J-5.6-DGS](#) [RX-075-RP](#) [R-25-SC](#) [R039 INSERTION TOOL OFFSET .010](#) [R039 FLUSH MOUNT](#) [R-25-WW-429](#)