

# 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 oz. (g)	Preload 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)

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

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

## 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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## Smiths Interconnect:

[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-B-DE](#) [R-075-S-DE](#) [R-075-U-DE](#) [R-50C-B-DE](#) [R-50C-U-DE](#) [ICT-50C-A-5.6-DG](#) [ICT-50C-A-4.3-DG](#) [ICT-50C-HS-5.6-DG-S](#) [ICT-50C-HS-4.3-DG-S](#) [ICT-50C-J-5.6-DG](#) [ICT-50C-J-4.3-DG](#) [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-T-4.3-DG-S](#) [ICT-50C-TL-5.6-DG-S](#) [ICT-50C-TL-4.3-DG-S](#) [ICT-50C-V8-4.3-DG](#) [ICT-50C-Z-5.6-DG-S](#) [ICT-50C-Z-4.3-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-HS-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-0-PW-36-1\(RSS50PW\) BLUE](#) [R-50C-DS](#) [R-50C-WT](#) [R-50C-CR](#) [ICT-50C-J-5.6-DGS](#) [RX-075-RP](#) [R-25-SC](#) [R039 INSERTION TOOL OFFSET .010](#) [R039 FLUSH MOUNT](#) [R-25-WW-429](#)