



BNC7T SERIES

# 75Ω OPTIMIZED BNC JACKS & PLUGS

Mates with:  
RF179, RFA6T,  
RFB6T, GRF7H-C

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?BNC7T-TH](http://www.samtec.com?BNC7T-TH), [www.samtec.com?BNC7T-BH](http://www.samtec.com?BNC7T-BH) or [www.samtec.com?BNC7T-EM](http://www.samtec.com?BNC7T-EM)

**Shell Material:**  
Ni plated Brass (-TH1, -BH1, -EM1, -EM2)  
Zinc (-TH2D, -BH2D, -EM1D, -EM2D)  
**Contact Material:** Copper Alloy  
**Insulator Material:** PTFE  
**Impedance:**  
ST = 75Ω ±2Ω  
RA = 75Ω ±4Ω  
**Frequency Range:** 0-6 GHz \*  
**V.S.W.R.:** 1.45 max  
**Working Voltage:** 500 Vrms  
**Dielectric Withstanding:** 1500 Vrms min  
**Contact Resistance:**  
Center Contact: 1.5mΩ max  
Outer Contact: 0.4mΩ max  
**Operating Temperature:** -65°C to +125°C  
**RoHS Compliant:** Yes  
**Lead-Free Solderable:** Yes

## TOOL

Tool for quickly installing/uninstalling knurl nut for BNC7T Series  
Part Number:  
TOOL-BNC7T-01

BNC7T	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION
	-J = Jack	-P = PCB Mount	-GN = 10µ" (0,25 µm) Gold contact, 100µ" (2,54 µm) Nickel shell	-ST = Straight  -RA = Right Angle Bulkhead/Panel Mount	-TH1 = Standard Through-hole  -TH2D = Tall Through-hole  -BH1 = Standard Bulkhead Through-hole (-RA only)  -BH2D = Low Profile Die Cast Bulkhead Through-hole (-RA only)  -EM1 = Edge Mount Bulkhead/Panel Mount for (1,60 mm) .062" PCB (-ST only)  -EM1D = Edge Mount Die Cast Bulkhead/Panel Mount for (1,60 mm) .062" PCB (-ST only)  -EM2 = Edge Mount Bulkhead/Panel Mount for (2,40 mm) .093" PCB (-ST only)  -EM2D = Edge Mount Die Cast Bulkhead/Panel Mount for (2,40 mm) .093" PCB (-ST only)

\* Designed to meet SMPTE 424M 3G SDI specification.

\* Lock washers & knurled nuts supplied with Bulkhead/Panel Mount options

## SPECIFICATIONS

For complete specifications and assembly instructions see [www.samtec.com?BNC7T-CA](http://www.samtec.com?BNC7T-CA)

**Shell Material:**  
Brass  
**Contact Material:**  
Brass (-P), Copper Alloy (-J)  
**Center Contact:** Soldered  
**Outer Ferrule:** Crimped  
**Impedance:**  
75Ω  
**Frequency Range:**  
0-4 GHz (-P)\*, 0-3.5 GHz (-J)\*  
**V.S.W.R.:** 1.3 max  
**Working Voltage:** 500 Vrms  
**Dielectric Withstanding:** 1500 Vrms min  
**Contact Resistance:**  
Center Contact: 3mΩ max  
Outer Contact: 2mΩ max  
**Insulator Resistance:** 5,000 MΩ min  
**Operating Temperature:** -65°C to +125°C

BNC7T	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION
	-J = Jack	-P = Plug	-GN = 10µ" (0,25 µm) Gold on contact, Nickel on outer contact and shell	-ST = Straight  -RA = Right Angle (-P only)	-CA3 = RG 179 Cable (-P only)  -CA3D = RG 179 Cable Die Cast (-P-ST only)  -BH3 = Bulkhead, RG 179 Cable (-J only)  -CA6 = RG 6 or Belden 1694A Cable (-P only)  -CA6D = RG 6 or Belden 1694A Cable Die Cast (-P-ST only)

\* Designed to meet SMPTE 424M 3G SDI specification.

Supplied with pins, ferrules, washers, nuts and gaskets. See website for dimensions.

Due to technical progress, all designs, specifications and components are subject to change without notice.