



RFA6T, RFB6T SERIES



RFA6T-74SP3-74SP3-0300

# 75Ω OPTIMIZED BNC CABLE ASSEMBLIES

## SPECIFICATIONS

For complete specifications see [www.samtec.com?RFA6T](http://www.samtec.com?RFA6T) or [www.samtec.com?RFB6T](http://www.samtec.com?RFB6T)

### RF Connector:

**Outer Contact Material:**  
Ni plated Brass (BNC),  
Au plated BeCu (DIN),  
Au plated Phosphor Bronze (HDBNC)

**Center Contact Material:**  
Gold plated Brass

**Insulator Material:**  
PTFE

**Operating Temperature:**  
-65°C to +125°C

**Impedance:**  
75Ω ± 3Ω (-ST)  
75Ω ± 4Ω (-RA)

**Frequency Range:**  
0-3.5 GHz \*

**Working Voltage:**  
500 Vrms max \*

**Dielectric Withstanding:**  
1500 Vrms min \*

**Contact Resistance:**  
Center Contact: 1,5mΩ max  
Outer Contact: 0,4mΩ max

**RoHS Compliant:** Yes

### RG 6/1694A Cable:

**Impedance:**  
75Ω ±3Ω

**Capacitance:**  
54 ±3pF/meter

**Max Attenuation (cable only):**  
0,21dB @ 1GHz for 1 meter

**Conductor Size:**  
18 AWG, (1,02 mm) .040" dia.

**Conductor Material:**  
Bare Copper

**Insulator Material:**  
Gas Injected Foamed Polyethylene

**Shield Material:**  
Tinned Copper Braid over Aluminum Foil Wrap

**Jacket Material:** PVC

**Jacket Diameter:**  
(7,00 mm) .275"

**Jacket Color:** Black

**RoHS Compliant:** Yes

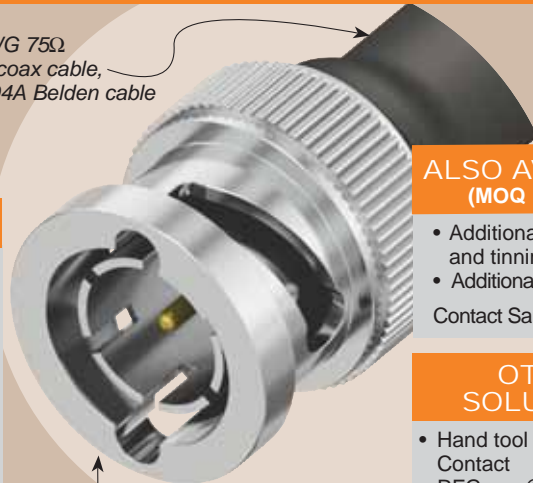
\* See connector component pages for specific range.

Mates with:  
BNC7T, DIN7A, HDBNC

18 AWG 75Ω  
RG 6 coax cable,  
or 1694A Belden cable

## THINK OUTSIDE THE CATALOG

- Create a full system: cable assembly and board level mates, 50Ω and 75Ω solutions
- 24-hour samples on standard products
- Visit: [rf.samtec.com](http://rf.samtec.com)



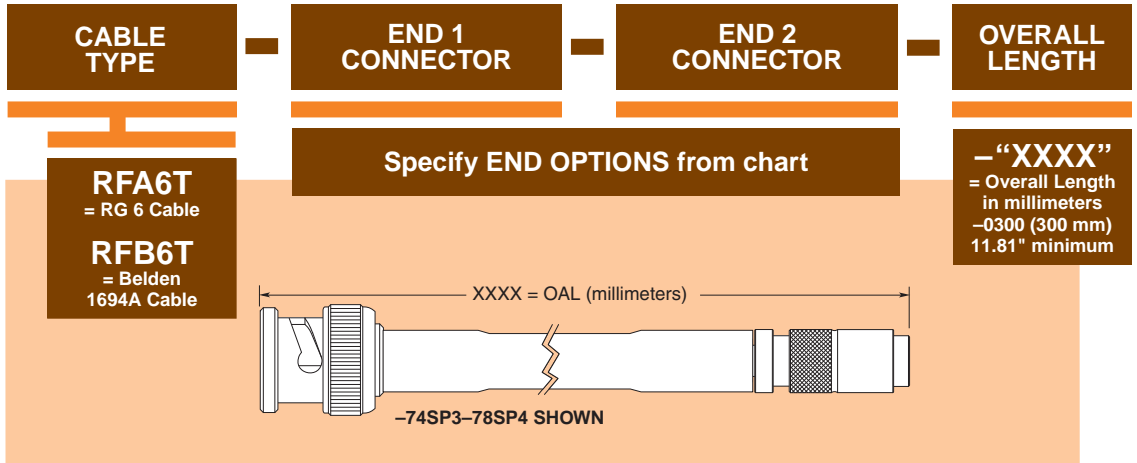
3G SDI optimized  
True 75Ω terminations

## ALSO AVAILABLE (MOQ Required)

- Additional stripping and tinning options
  - Additional plating options
- Contact Samtec.

## OTHER SOLUTIONS

- Hand tool available. Contact [RFGroup@samtec.com](mailto:RFGroup@samtec.com)
- Cable connector kits (see cable components catalog pages)



STRIPPED & TINNED (Dimensions in mm)			
CALLOUT	A	B	C
-303030	3.0	3.0	3.0
-303040	3.0	3.0	4.0
-403030	4.0	3.0	3.0
-403040	4.0	3.0	4.0
-404040	4.0	4.0	4.0

Both center conductor and braid shield are stripped, only the center conductor is tinned.

END OPTIONS		END OPTIONS	
-H4SP3 = 75Ω High Density BNC Straight Plug (10µ" (0,25 µm) Gold on Center Contact, Nickel on Shell)		-74RP3 = 75Ω BNC Right Angle Plug (10µ" (0,25 µm) Gold on Center Contact, Nickel on Shell)	
-78SP4 = 75Ω DIN Straight Plug (10µ" (0,25 µm) Gold on Center Contact, Nickel on Shell)		-SING = Single Ended (End 2 callout)	
-74SP3* = 75Ω BNC Straight Plug (10µ" (0,25 µm) Gold on Center Contact, Nickel on Shell) (*Die Cast also available = -D4SP3)		-XXXXXX = Stripped & Tinned (End 2 callout) (See chart for callout)	

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

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