



RFA6T, RFB6T SERIES



RFA6T-74SP3-74SP3-0300

75Ω OPTIMIZED BNC CABLE ASSEMBLIES

SPECIFICATIONS

For complete specifications see www.samtec.com?RFA6T or www.samtec.com?RFB6T

RF Connector:

Outer Contact Material:
Ni plated Brass (BNC7T, MBNC7), Au plated BeCu (DIN7A), 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, (1.02mm) .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:

(7.00mm) .275"

Jacket Color: Black

RoHS Compliant: Yes

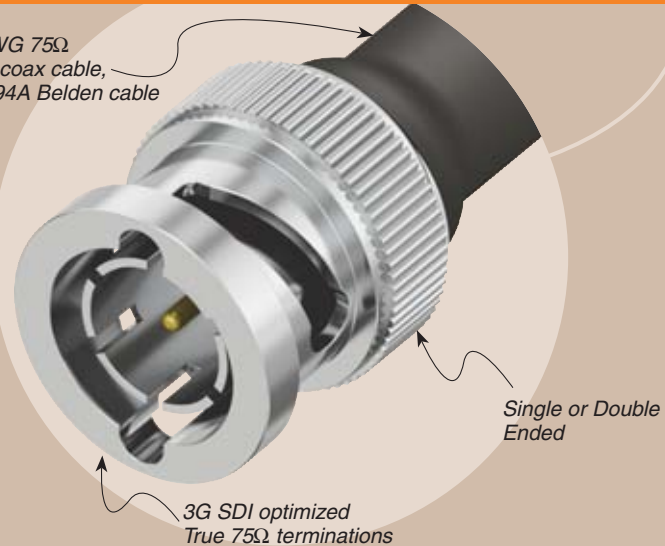
* See connector component pages for specific range.

Mates with:
BNC7T, MBNC7, DIN7A, HDBNC

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

ALSO AVAILABLE

- Connector Kits.
- Additional plating options available. Call Samtec.



CABLE TYPE

END 1 CONNECTOR

END 2 CONNECTOR

OVERALL LENGTH

RFA6T
= RG 6 Cable

RFB6T
= Belden
1694A Cable

Specify
END OPTIONS
from chart

- "XXXX"
= Overall Length
in millimeters
-0300 (300mm)
11.81" minimum

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. Call Samtec for other sizes or tinning options.

END OPTIONS

-H4SP3 = 75Ω High Density BNC, Straight Plug (10μ" (0.25μm) Gold on Center Contact, Nickel on Shell)	
-79RP3 = 75Ω Mini BNC, Right Angle Plug (10μ" (0.25μm) Gold on Center Contact, Nickel on Shell)	
-79SP3 = 75Ω Mini BNC, Straight Plug (10μ" (0.25μm) Gold on Center Contact, Nickel on Outer Contact and Shell)	
-78SP4 = 75Ω DIN, Straight Plug (10μ" (0.25μm) Gold on Center Contact, Gold Flash on Outer Contact, Nickel on Shell)	

END OPTIONS

-D4SP3* or -74SP3 = 75Ω BNC, Straight Plug (10μ" (0.25μm) Gold on Center Contact, Nickel on Shell) (*Die Cast Coupling Nut)	
-74RP3 = 75Ω BNC, Right Angle Plug (10μ" (0.25μm) Gold on Center Contact, Nickel on Shell)	
-SING = Single Ended (End 2 callout)	
-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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