



RFA6T-74SP3-74SP3-0300

RFA6T, RFB6T SERIES

75 Ω OPTIMIZED BNC CABLE ASSEMBLIES

SPECIFICATIONS

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:**
75 Ω ± 3 Ω (-ST)
75 Ω ± 4 Ω (-RA) **Frequency Range:**
0-3.5 GHz *

Working Voltage:
500 Vrms max *

Dielectric Withstanding:
1500 Vrms min*

RoHS Compliant:
Yes

RG 6/1694A Cable:

Impedance:
75 Ω ± 3 Ω

Capacitance:
54 ± 3 pF/meter

Max Attenuation (cable only):
0.21 dB @ 1 GHz 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"

Bend Radius: 69.85 mm

Jacket Color: Black

RoHS Compliant: Yes

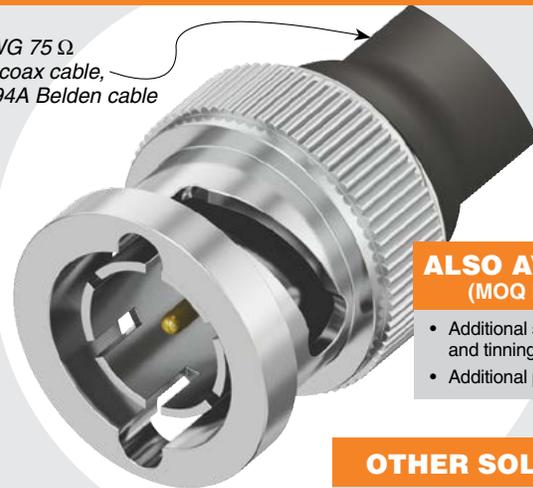
Mates with:
BNC7T, DIN7A, HDBNC

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



Solutionator
DESIGN IN A MINUTE

- Create a full system: cable assembly and board level mates, 50 Ω and 75 Ω solutions
- Free samples available
- Visit: rf.samtec.com



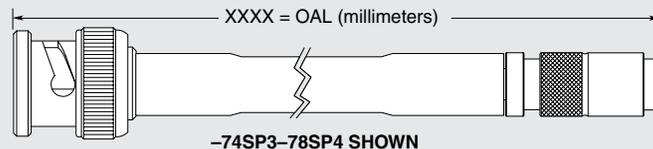
ALSO AVAILABLE (MOQ Required)

- Additional stripping and tinning options
- Additional plating options

OTHER SOLUTIONS

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

* See connector component pages for specific range.



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 = 75 Ω High-Density BNC Straight Plug (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)		-74RP3 = 75 Ω BNC Right-angle Plug (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)	
-78SP4 = 75 Ω DIN Straight Plug (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)		-SING = Single Ended (End 2 callout)	
-74SP3* = 75 Ω BNC Straight Plug (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)		-XXXXXX = Stripped & Tinned (End 2 callout) (See chart for callout)	
(*Die Cast also available = -D4SP3)			