



RF179 SERIES



75Ω OPTIMIZED CABLE ASSEMBLIES

SPECIFICATIONS

For complete specifications see www.samtec.com?RF179

RF Connector:

Outer Contact Material:
Ni plated Brass (BNC, MBNC7)
Au plated Brass (SMB)
Au plated BeCu (MCX, DIN7A)

Center Contact Material:

Au plated Brass (BNC-P, MCX-P, MBNC7)
Au plated BeCu (SMB-P, DIN7A)
Au plated Phosphor Bronze (BNC-J)

Insulator Material:

PTFE

Operating Temperature:

-50°C to +165°C

Impedance:

ST = 75Ω ±3Ω

RA = 75Ω ±4Ω

Frequency Range:

0-4 GHz *

Working Voltage:

170 Vrms (MCX)

500 Vrms (BNC & SMB)

Dielectric Withstanding:

500 Vrms min (MCX)

1500 Vrms min (BNC & SMB)

Contact Resistance:

Center Contact: 1.5mΩ max

Outer Contact: 0.4mΩ max

RoHS Compliant:

Yes

RG 179 Cable:

Impedance:

75Ω ±3Ω

Capacitance:

64pF/meter

Propagation Delay:

4.83 nsec/meter

Max Attenuation (cable only):

0.8dB @ 1GHz for 1 meter

Conductor Size:

30 AWG, (0,31mm) .012" dia.

Conductor Material:

Silver Plated Copper

Conductor Resistance:

0.34Ω/meter max

Current Rating:

3A DC

Insulator Diameter:

(1,6mm) .063"

Insulator Material:

PTFE

Dielectric Constant:

1.8 dK

Shield Material:

Silver Plated Copper

Jacket Material:

FEP

Jacket Diameter:

(2,54mm) .100"

Jacket Temp Rating:

-55°C to +165°C

Jacket Color:

Amber

RoHS Compliant:

Yes

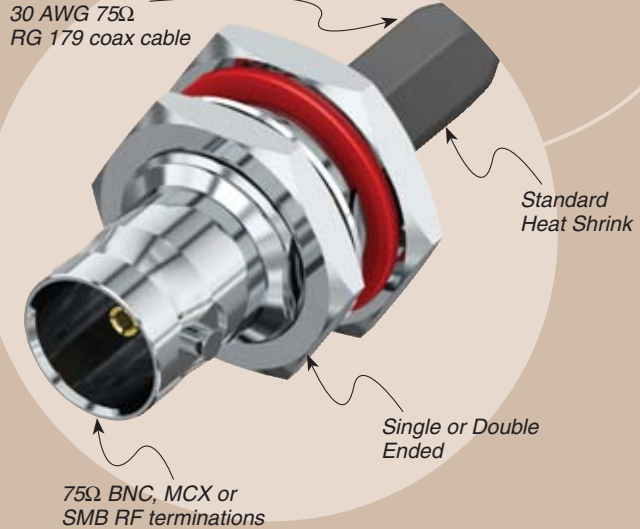
* See connector component pages for specific range.

Mates with:
BNC7T, MCX7, SMB7H,
MBNC7, DIN7A

ALSO AVAILABLE

- Connector Kits.
 - Additional plating options available.
 - Knurled nuts with BNC option.
- Call Samtec.

30 AWG 75Ω
RG 179 coax cable



CABLE TYPE

END 1 CONNECTOR

END 2 CONNECTOR

OVERALL LENGTH

RF179
= RG 179 Cable

Specify END OPTIONS from chart

—“XXXX”
= Overall Length in millimeters
-0100 (100mm)
3.94" minimum

END OPTIONS	
<p>-D4SP3* or -74SP3 = 75Ω BNC, Straight Plug (10μ" (0,25μm) Gold on Center Contact, Nickel on Shell) (*Die Cast)</p>	
<p>-74BJ3 = 75Ω BNC, Bulkhead Jack (10μ" (0,25μm) Gold on Center Contact, Nickel on Shell)</p>	
<p>-79SP3 = 75Ω Mini BNC, Straight Plug (10μ" (0,25μm) Gold on Center Contact, Nickel on Outer Contact and Shell)</p>	
<p>-78SP4 = 75Ω DIN, Straight Plug (10μ" (0,25μm) Gold on Center Contact, Gold Flash on Outer Contact, Nickel on Shell)</p>	

END OPTIONS	
<p>-72RP2 = 75Ω MCX, Right Angle Plug (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell)</p>	
<p>-72SP2 = 75Ω MCX, Straight Plug (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Outer Contact, Nickel on Shell)</p>	
<p>-77RP2 = 75Ω SMB, Right Angle Plug (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Outer Contact, Nickel on Shell)</p>	
<p>-77SP2 = 75Ω SMB, Straight Plug (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell)</p>	
<p>-SING = Single Ended (End 2 callout)</p>	
<p>XXXXXX = Stripped & Tinned (End 2 callout)</p>	

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.

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