

RF179-74BJ3-72RP1-0200

# 75 Ω OPTIMIZED RG 179 CABLES

## SPECIFICATIONS

For complete specifications see [www.samtec.com?RF179](http://www.samtec.com?RF179)

### RF Connector:

#### Outer Contact Material:

Ni plated Brass

(BNC)

Au plated Brass

(SMB)

Au plated BeCu

(MCX, MMCX7, DIN)

#### Center Contact Material:

Au plated Brass

(BNC-P, MCX, MMCX7)

Au plated BeCu

(SMB)

Au plated Copper Alloy

(DIN, BNC-J)

#### Insulator Material:

PTFE

#### Operating Temperature:

-50 °C to +165 °C

#### Impedance:

75 Ω

#### Frequency Range:

0-4 GHz \*

(Cable & connector dependent)

#### RoHS Compliant:

Yes

### RG 179 Cable:

#### Impedance:

75 Ω ±3 Ω

#### Capacitance:

64 pF/meter

#### Propagation Delay:

4.83 nsec/meter

#### Max Attenuation

(cable only):

0.8 dB @ 1 GHz for 1 meter

#### Conductor Size:

30 AWG, (0.31 mm) .012" dia.

#### Conductor Material:

Silver Plated Copper

#### Conductor Resistance:

0.34 Ω/meter max

#### Current Rating:

3 A DC

#### Insulator Diameter:

(1.6 mm) .063"

#### Insulator Material:

PTFE

#### Dielectric Constant:

1.8 dK

#### Shield Material:

Silver Plated Copper

#### Jacket Material:

FEP

#### Jacket Diameter:

(2.54 mm) .100"

#### Bend Radius:

10.2 mm

#### Jacket Temp Rating:

-50 °C to +165 °C

#### Jacket Color:

Amber

#### RoHS Compliant:

Yes

### Mates with:

BNC7T, MCX7, MMCX7,  
SMB7H, DIN7A



**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](http://rf.samtec.com)

\* See connector component pages for specific range.

30 AWG  
75 Ω RG 179  
coax cable

Standard  
Heat Shrink

Single or Double  
Ended

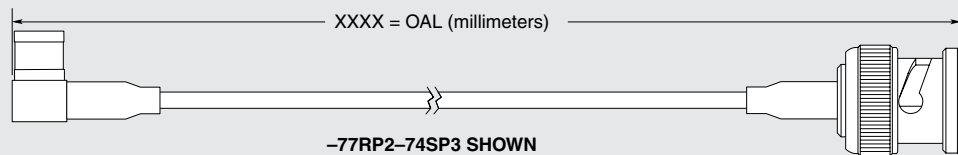
CABLE TYPE

END 1  
CONNECTOR

END 2  
CONNECTOR

**RF179**  
= RG 179 Cable

Specify END OPTIONS from chart



END OPTIONS		END OPTIONS	
-73SP4 = 75 Ω MMCX7 Straight Plug (10 μ" (0.25 μm) Gold on Center Contact, Gold Flash on Shell)		-72RP1 = 75 Ω MCX Right-angle Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-73RP1 = 75 Ω MMCX7 Right-angle Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)		-72SP1 = 75 Ω MCX Straight Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-73SJ4 = 75 Ω MMCX7 Straight Jack (10 μ" (0.25 μm) Gold on Center Contact, Gold Flash on Shell)		-77SP1 = 75 Ω SMB Straight Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	

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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.



RF179-78SP4-77SP1-0200



RF179-72SP1-73SJ4-0100

**RF179 SERIES**



Wide variety of 75 Ω end options including BNC, MCX and SMB

Straight or Right-angle terminations



**ALSO AVAILABLE**  
(MOQ Required)

- Additional stripping and tinning options
- Additional plating options
- Additional end connector combinations

**OTHER SOLUTIONS**

- Cable connector kits (see cable components catalog pages)

**OVERALL LENGTH**

–“XXXX”

= Overall Length in millimeters –0100 (100 mm) 3.94" 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.

**END OPTIONS**

<p>–77RP1 = 75 Ω SMB Right-angle Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)</p>	
<p>–74SP3 = 75 Ω BNC Straight Plug –D4SP3 = 75 Ω BNC Die Cast Straight Plug (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)</p>	
<p>–74BJ3 = 75 Ω BNC Bulkhead Jack (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)</p>	

**END OPTIONS**

<p>–78SP4 = 75 Ω DIN Straight Plug (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)</p>	
<p>–SING = Single Ended (End 2 callout)</p>	
<p>XXXXXX = Stripped &amp; Tinned (End 2 callout)</p>	

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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.  
Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [RF Cable Assemblies](#) category:*

*Click to view products by [Samtec](#) manufacturer:*

Other Similar products are found below :

[573/2](#) [73-6311-6](#) [73-6353-3](#) [73-6364-6](#) [MDB1-9SH001](#) [MDM-15PH003L-K139](#) [MDM-21PH003L-K139](#) [MH113-01SB1-MH1RP-0152](#)  
[MIKQ6-7SH076](#) [R288940005](#) [RF174-01RP1-03RP1-0110](#) [RMTB1-6PHY0102](#) [145111-05-12.00](#) [1661-C-24](#) [2192](#) [CA-628485-A43](#)  
[24P104C24J1-012](#) [24P104C24P1-006](#) [24P104C24P1-018](#) [24P203C24P2-006](#) [24P204C24J1-003](#) [172-2150-EX](#) [1800920920914PJ](#) [FCB-3030-](#)  
[ALT](#) [21117-046](#) [21117-050](#) [PCX-24-50](#) [24P103C24P2-003](#) [25P203C25P2-003](#) [R284008001](#) [R285426000](#) [R288940003](#) [R288940008](#)  
[RF174-03RP1-01BR1-0200](#) [RF179-74BJ3-77RP1-0305](#) [RMTB1-15PHY0102](#) [RMTB1-8PHY0102](#) [4814-BB-24](#) [500-181-R-ACC](#) [MIKQ6-](#)  
[7SH023](#) [5260-72](#) [314-120](#) [JR4N1-CL1-6F](#) [JR4R3-CL1-4F](#) [JT2N1-CL1-1F](#) [JT2T1-CL1-6F](#) [4814-K-48](#) [RN-UFL-SMA6](#) [100E151JW3600X](#)  
[CCNTN2-MM-LL335-26](#)