

RF179-74BJ3-72RP1-0200

# 75Ω 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:**  
75Ω

### Frequency Range:

0~4 GHz \*  
(Cable & connector dependent)

**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, (0.31 mm) .012" dia.

**Conductor Material:**

Silver Plated Copper

**Conductor Resistance:**

0.34Ω/meter max

**Current Rating:**

3A 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:**

-55°C to +165°C

**Jacket Color:**

Amber

**RoHS Compliant:**

Yes

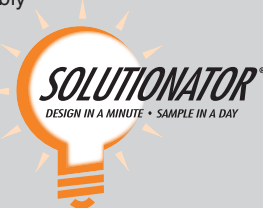
\* See connector component pages for specific range.

**Note:**  
Designed to meet SMPTE  
424M 3G-SDI specifications.

**Mates with:**  
BNC7T, MCX7, MMCX7,  
SMB7H, DIN7A

## 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)

30 AWG  
75Ω RG 179  
coax cable

Standard  
Heat Shrink

Single or Double  
Ended

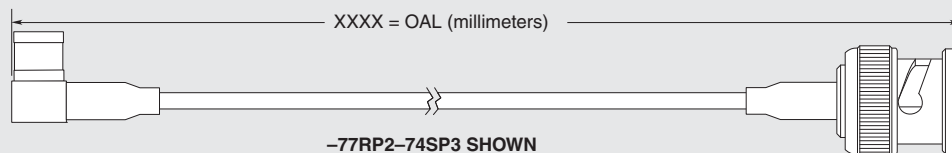
## CABLE TYPE

## END 1 CONNECTOR

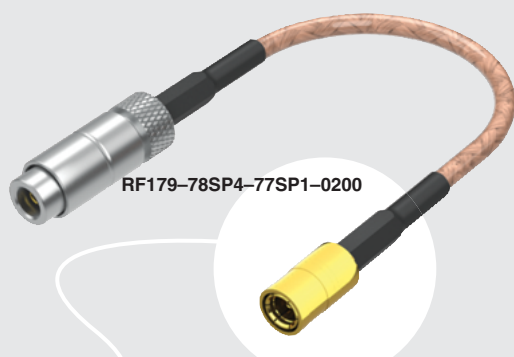
## END 2 CONNECTOR

**RF179**  
= RG 179 Cable

Specify END OPTIONS from chart



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



RF179-78SP4-77SP1-0200



RF179-72SP1-73SJ4-0100

## RF179 SERIES



Wide variety of 75Ω 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
- Contact Samtec.

### OTHER SOLUTIONS

- Cable connector kits (see cable components catalog pages)

## OVERALL LENGTH

—“XXXX”

= Overall Length in millimeters -0100 (100 mm) 3.94" minimum

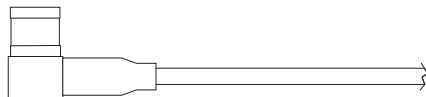
### STRIPPED & TINNED (Dimensions in mm)

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

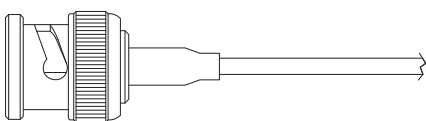
Both center conductor and braid shield are stripped, only the center conductor is tinned.

### END OPTIONS

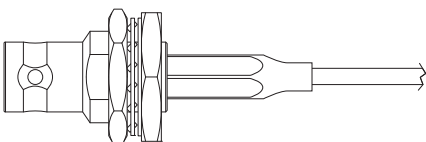
-77RP1 = 75Ω SMB  
Right Angle Plug  
(30μ" (0.76 μm) Gold  
on Center Contact,  
Gold Flash on Shell)



-74SP3 = 75Ω BNC  
Straight Plug  
-D4SP3 = 75Ω BNC  
Die Cast Straight Plug  
(10μ" (0.25 μm) Gold  
on Center Contact,  
Nickel on Shell)

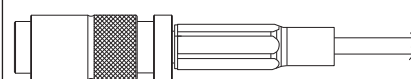


-74BJ3 = 75Ω BNC  
Bulkhead Jack  
(10μ" (0.25 μm) Gold  
on Center Contact,  
Nickel on Shell)

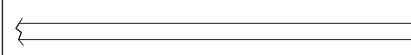


### END OPTIONS

-78SP4 = 75Ω DIN  
Straight Plug  
(10μ" (0.25 μm) Gold  
on Center Contact,  
Nickel on Shell)



-SING =  
Single Ended  
(End 2 callout)



XXXXXX =  
Stripped & Tinned  
(End 2 callout)



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Samtec:

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