

75Ω OPTIMIZED RG 179 CABLES

SPECIFICATIONS

For complete specifications see 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"
Jacket Temp Rating:
-55°C to +165°C

Jacket Color:
Amber

RoHS Compliant:
Yes

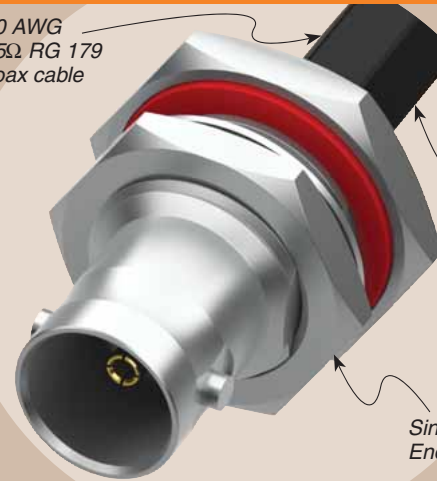
Mates with:
BNC7T, MCX7, MMCX7,
SMB7H, DIN7A

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



30 AWG
75Ω RG 179
coax cable



Standard Heat Shrink

Single or Double Ended

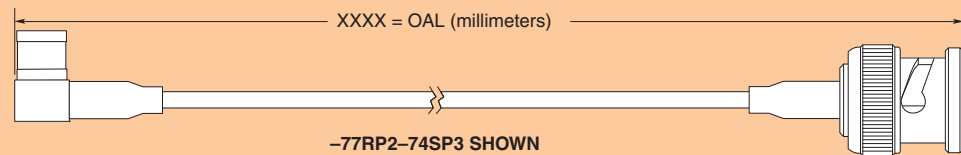
CABLE TYPE

END 1 CONNECTOR

END 2 CONNECTOR

Specify END OPTIONS from chart

RF179
= RG 179 Cable



END OPTIONS	
-73SP4 = 75Ω MMCX7 Straight Plug (10μ" (0,25 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)	
-73SJ4 = 75Ω MMCX7 Straight Jack (10μ" (0,25 μm) Gold on Center Contact, Gold Flash on Shell)	

END OPTIONS	
-72RP1 = 75Ω MCX 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)	
-77SP1 = 75Ω SMB Straight Plug (30μ" (0,76 μm) Gold on Center Contact, Gold Flash on Shell)	

* See connector component pages for specific range.

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

WWW.SAMTEC.COM



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)	

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