

75 Ω 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:

75 Ω

Frequency Range:

0-4 GHz *

(Cable & connector dependent)

RoHS Compliant:

Yes

RG 179 Cable:

Impedance:

75 Ω \pm 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

* See connector component pages for specific range.

30 AWG
75 Ω RG 179
coax cable

Standard
Heat Shrink

Single or Double
Ended

CABLE TYPE

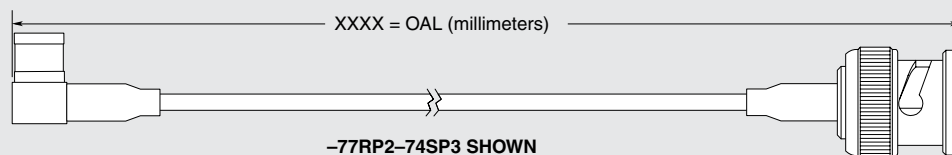
END 1 CONNECTOR

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

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

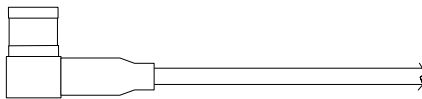
STRIPPED & TINNED (Dimensions in mm)

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

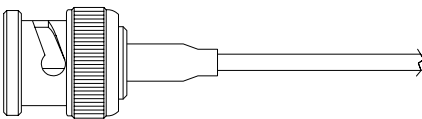
Both center conductor and braid shield are stripped, only the center conductor is tinned.

END OPTIONS

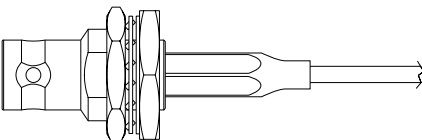
-77RP1 = 75 Ω SMB
Right-angle Plug
(30 μ " (0.76 μ m) Gold on Center Contact, Gold Flash on Shell)



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

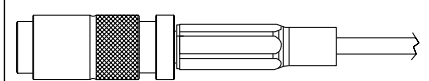


-74BJ3 = 75 Ω BNC
Bulkhead Jack
(10 μ " (0.25 μ m) Gold on Center Contact, Nickel on Shell)

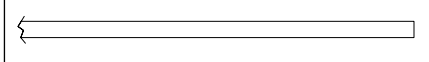


END OPTIONS

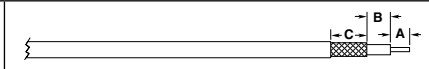
-78SP4 = 75 Ω DIN
Straight Plug
(10 μ " (0.25 μ m) Gold on Center Contact, Nickel on Shell)



-SING =
Single Ended
(End 2 callout)



XXXXXX =
Stripped & Tinned
(End 2 callout)



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Mouser Electronics

Authorized Distributor

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