

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 ±3%

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

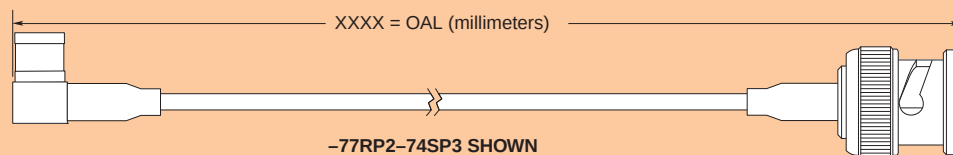
END 1 CONNECTOR

END 2 CONNECTOR

RF179

= RG 179 Cable

Specify END OPTIONS from chart



END OPTIONS

-7GSP1 = 75Ω MMCX7
Straight Plug
(10μ" (0.25 μm) Gold
on Center Contact,
Gold Flash on Shell)



-7VJS1 = 75Ω MMCX7
High Vibration 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



RF179-72SP1-7VSJ1-0100



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

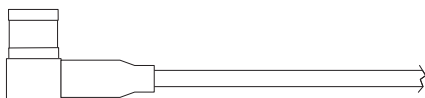
STRIPPED & TINNED (Dimensions in mm)

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

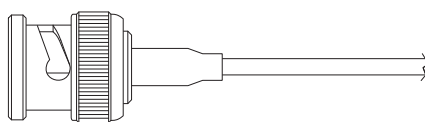
Both center conductor and braid shield are stripped, only the center conductor is tinned.

END OPTIONS

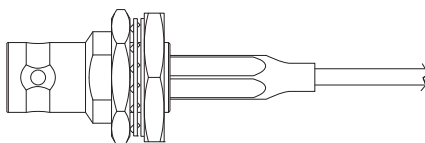
-77RP1 = 75Ω SMB
Right Angle Plug
(30μ" (0.76 μm) Gold
on Center Contact,
Gold Flash on Shell)



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

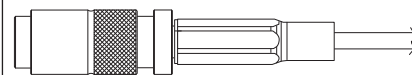


-74BJ3 = 75Ω BNC
Bulkhead Jack
(10μ" (0.25 μm) Gold
on Center Contact,
Nickel on Shell)

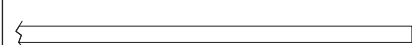


END OPTIONS

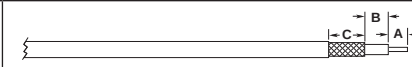
-78SP4 = 75Ω DIN
Straight Plug
(10μ" (0.25 μm) Gold
on Center Contact,
Nickel on Shell)



-SING =
Single Ended
(End 2 callout)



XXXXXX =
Stripped & Tinned
(End 2 callout)



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