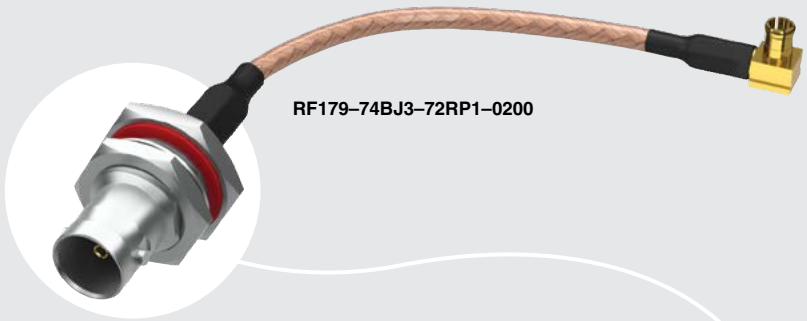


75 Ω OPTIMIZED RG 179 CABLES

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

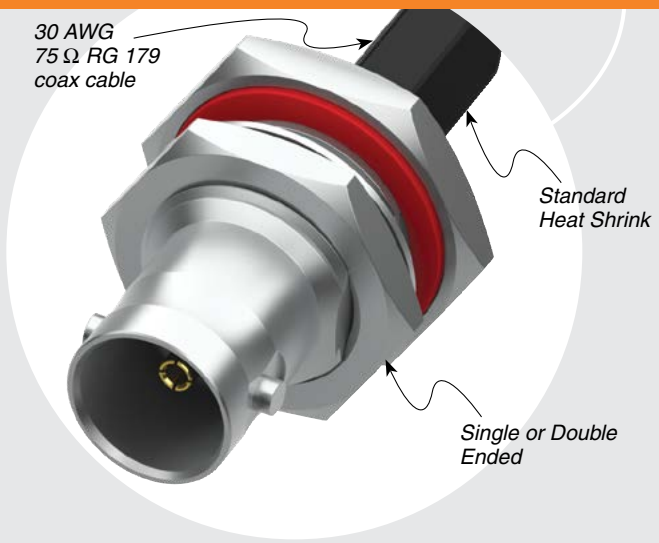
RG 179 Cable:

Impedance:
75 Ω ±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

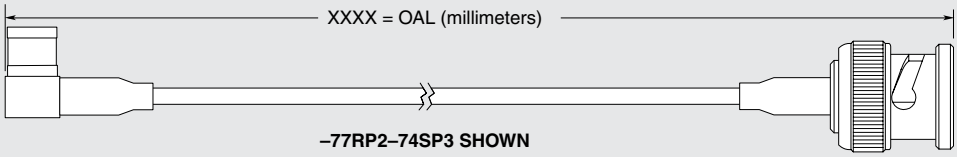
Solutionator
DESIGN IN A MINUTE

- Create a full system: cable assembly and board level mates, 50 Ω and 75 Ω solutions
- Free samples available
- Visit: rf.samtec.com

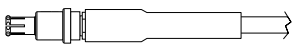
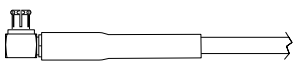
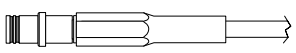


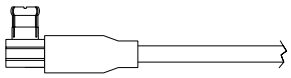
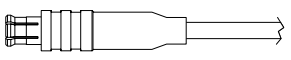
* See connector component pages for specific range.

CABLE TYPE	END 1 CONNECTOR	END 2 CONNECTOR
RF179 = RG 179 Cable	Specify END OPTIONS from chart	



–77RP2–74SP3 SHOWN

END OPTIONS	
–73SP4 = 75 Ω MMCX7 Straight Plug (10 µ" (0.25 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)	
–73SJ4 = 75 Ω MMCX7 Straight Jack (10 µ" (0.25 µm) Gold on Center Contact, Gold Flash on Shell)	

END OPTIONS	
–72RP1 = 75 Ω MCX 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)	
–77SP1 = 75 Ω SMB Straight Plug (30 µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	

RF179–78SP4–77SP1–0200

RF179–72SP1–73SJ4–0100

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

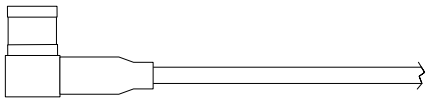
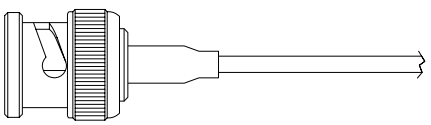
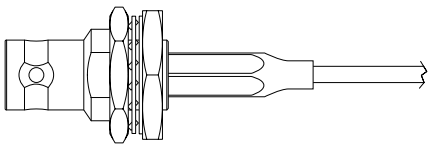
–"XXXX"
= Overall Length in millimeters –0100 (100 mm) 3.94" minimum

STRIPPED & TINNED (Dimensions in mm)

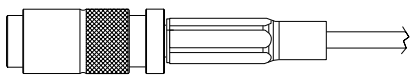
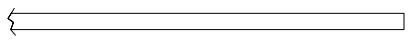
CALLOUT	A	B	C
–303030	3.0	3.0	3.0
–303040	3.0	3.0	4.0
–403030	4.0	3.0	3.0
–403040	4.0	3.0	4.0
–404040	4.0	4.0	4.0

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

END OPTIONS

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