

# RG 178 RF CABLE ASSEMBLIES RF178 SERIES

## SPECIFICATIONS

For complete specifications see [www.samtec.com?RF178](http://www.samtec.com?RF178)

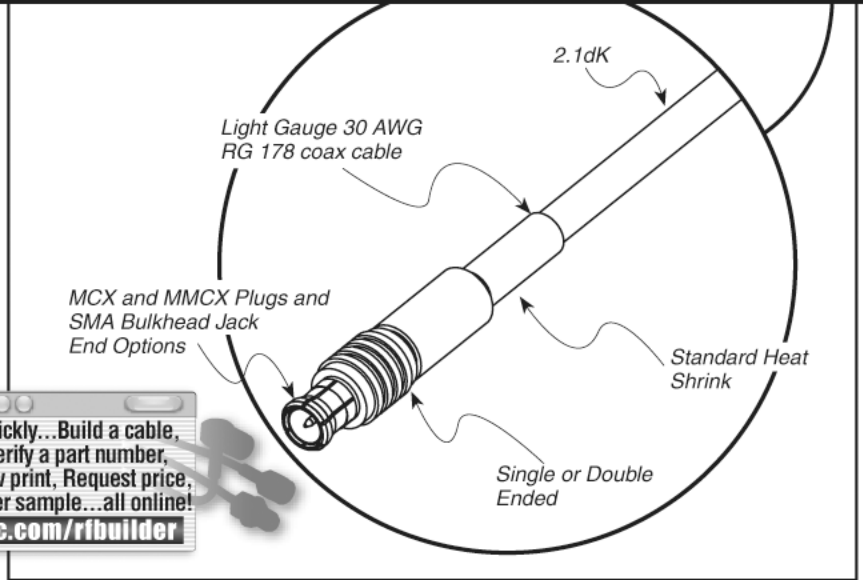
### RF Connector:

- Shell Material:** Brass
- Contact Material:** Brass
- Operating Temperature:** -65°C to +165°C
- Voltage Rating:** 170V max
- Dielectric Withstanding Voltage:** 750 Vrms
- Contact Resistance:** Center Contact: 6mΩ max  
Outer Contact: 2mΩ max
- Insulator Resistance:** 5,000 MΩ
- Impedance:** 50Ω
- RoHS Compliant:** Yes

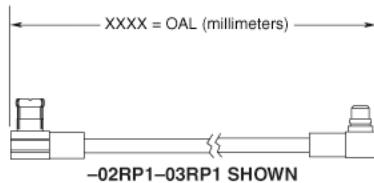
### RG 178 Cable:

- Impedance:** 50Ω
- Capacitance:** 89.61pF/meter
- Propagation Delay:** 4.83 nsec/meter
- Max Attenuation (cable only):** 1.7dB @ 1GHz for 1 meter
- Conductor Size:** 30 AWG, (0,31mm) .012" dia.
- Conductor Material:** Silver Plated Copper
- Conductor Resistance:** 0.34Ω/meter max
- Current Rating:** 3A
- Insulator Diameter:** (0,86mm) .034"
- Insulator Material:** PTFE
- Dielectric Constant:** 2.1dK
- Shield Material:** Silver Plated Copper Clad Steel
- Jacket Material:** FEP
- Jacket Diameter:** (1,80mm) .071"
- Jacket Temp Rating:** -50°C to +250°C
- Jacket Color:** Amber
- RoHS Compliant:** Yes

**RF Cable Builder**  
 Quickly... Build a cable.  
 Verify a part number.  
 View print, Request price.  
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[www.samtec.com/rfbuilder](http://www.samtec.com/rfbuilder)



CABLE TYPE	END 1 CONNECTOR	END 2 CONNECTOR	OVERALL LENGTH
RF178 = RG 178 Cable	Specify END OPTIONS from chart		- "XXXX" = Overall Length in millimeters -100 to -1000 (100mm) 3.94" to (1000mm) 39.37"



END OPTIONS	
-01BJ1 = SMA, Bulkhead Jack	
-02SJ1 = MCX, Straight Jack	
-02RP1 = MCX, Right Angle Plug	
-02SP1 = MCX, Straight Plug	
-03SP1 = MMCX, Straight Plug	
-03RP1 = MMCX, Right Angle Plug	
-SING = Single-Ended (End 2 Callout)	

## ALSO AVAILABLE

Cable components.  
 Additional End  
 Connector combinations.  
 Call Samtec.

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

**WWW.SAMTEC.COM**