



RF25M-01SP1-SCC21-0152

## RF25M, BE25M, BE25S SERIES

# MICROWAVE COAX TEST CABLES

RF25M Mates with:  
CCH-J-01

BE25X Mates with:  
CCH-J-22, CRM

## SPECIFICATIONS

For complete specifications see [www.samtec.com?RF25M](http://www.samtec.com?RF25M)  
[www.samtec.com?BE25M](http://www.samtec.com?BE25M) or  
[www.samtec.com?BE25S](http://www.samtec.com?BE25S)

### RF Connector:

**Outer Contact Material:**

Brass (SMA)

**Center Contact Material:**

Brass (SMA Plug)

BeCu (SMA Jack)

**Plating:**

30µ" (0,76µm)

Gold on center contact,

Gold flash on shell (SMA)

**Insulator Material:**

PTFE

**Operating Temperature:**

-65°C to +165°C

**Insulator Resistance:**

5,000 MΩ

**Impedance:**

50Ω

**Frequency Range:**

0~20 GHz

**RoHS Compliant:**

Yes

### Cable:

**Type:**

Low Loss Microwave Coax

**Gauge:**

25 AWG Silver plated Copper

**Dielectric:**

RF25M air enhanced FEP

BE25(X) solid FEP

**Jacket Material:**

FEP

**Impedance:**

50Ω ±1Ω

**Propagation Delay:**

3.84 nsec/meter

**Capacitance:**

75.4 pF/meter

## ALSO AVAILABLE

- Extraction Tool:  
CAT-EX-SCC-01.
- Additional plating  
options available.  
Call Samtec.

### Note:

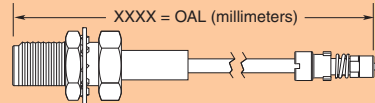
Cable lengths longer than  
40.00" (1 meter) are not  
supported with S.I. test data.

### Note:

Some lengths, styles and  
options are non-standard,  
non-returnable.

CABLE TYPE	END 1 CONNECTOR	END 2 CONNECTOR	OVERALL LENGTH
RF25M = Air Enhanced Dielectric 25 AWG Microwave Cable	Specify END OPTIONS from chart		— "XXXX" = Overall Length in millimeters -0100 (100mm) 3.94" minimum

END OPTIONS	
-01SP1 = SMA, Straight Plug	
-01BJ1 = SMA, Bulkhead Jack	
SCC11 = Coax Test Point with standard ferrule (Mates with CCH-J-01 only)	
-SCC21 = Coax Test Point with knurled ferrule (Mates with CCH-J-01 only)	



-01BJ1-SCC11 SHOWN

For use with CCH-J-01 test points

END OPTIONS	
-SING = Single-Ended (End 2 only)	
XXXXXX = Stripped & Tinned (End 2 only)	

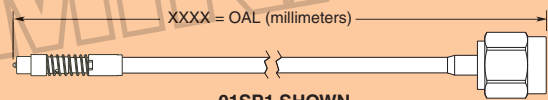
### STRIPPED & TINNED (Dimensions in mm)

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 and Tinned.  
Call Samtec for other sizes.

CABLE TYPE	END OPTION	PHASE MATCHING	NO. OF PHASE MATCHED	OVERALL LENGTH
BE25M = Air Enhanced Dielectric 25 AWG Microwave Cable	Specify INSTRUMENT END OPTION from chart		-02 = 1 Pair	-0152 = (152,4mm) 6.00"
BE25S = Solid FEP Dielectric 25 AWG Microwave Cable			-04 = 2 Pairs	-0305 = (304,8mm) 12.00"
		-01.0 = 1 Pico-second (Not available with -0457 & -0914 cable length)	-06 = 3 Pairs	-0457 = (457,2mm) 18.00"
		-02.5 = 2.5 Pico-second (Not available with -0914 cable length)	-08 = 4 Pairs	-0914 = (914,4mm) 36.00"
		-05.0 = 5.0 Pico-second		
		-10.0 = 10.0 Pico-second		

INSTRUMENT END OPTIONS	
-01SP1 = SMA, Straight Plug	
-01BJ1 = SMA, Bulkhead Jack	



-01SP1 SHOWN

For use with CCH-J-22  
and CRM test points

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

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