

(4.00 mm) .1575"

**IJ5C SERIES**

# 50 Ω HIGH ISOLATION RF CABLE ASSEMBLY

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?IJ5C](http://www.samtec.com?IJ5C)

**Insulator Material:** Black LCP

**Contact Material:** Copper Alloy

**Pin Material:** Copper Alloy

**Dielectric Material:** Black LCP

**Plating:**

Au over 50 μ" (1.27 μm) Ni

**Operating Temp Range:**

-40 °C to +90 °C

**RoHS Compliant:** Yes

### Cable (-1):

**Conductor Size:**

26 AWG,

(0.48 mm) .019" dia.

**Conductor Material:**

Silver Plated Copper

**Insulator Diameter:**

(1.27 mm) .050"

**Insulator Material:**

Foamed FEP

**Shield Material:**

Silver Plated Copper

**Jacket Material:**

FEP

**Jacket Diameter:**

(1.80 mm) .071"

**Bend Radius:**

3.175 mm

**Impedance:**

50 Ω

**Current Rating:** 2.5 A

**RoHS Compliant:** Yes

### Cable (-2):

**Conductor Size:**

26 AWG,

(0.51 mm) .020" dia.

**Conductor Material:**

Silver and Copper

Plated Steel Wire

**Insulator Diameter:**

(1.52 mm) .060"

**Insulator Material:**

PTFE

**Shield Material:**

Silver Plated Copper Wire

**Jacket Material:**

FEP

**Jacket Diameter:**

(2.54 mm) .100"

**Bend Radius:**

12.7 mm

**Impedance:**

50 Ω

**Current Rating:** 5 A DC

**RoHS Compliant:** Yes

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



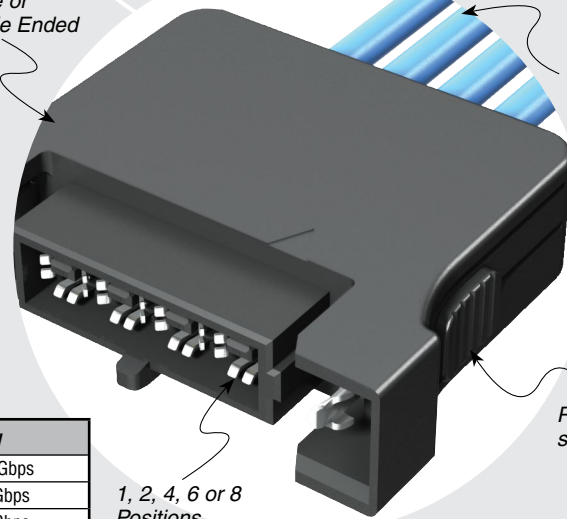
**Note:**  
This Series is non-standard, non-returnable.

Mates with:  
IP5

**EDGE RATE**  
CONTACT

Single or Double Ended

High-performance 26 AWG coax cable



Positive latching system

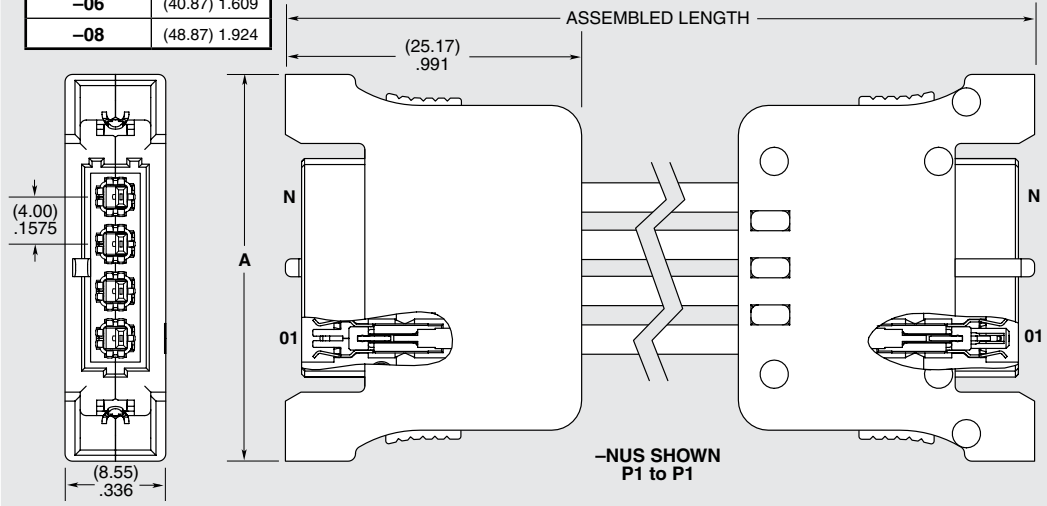
1, 2, 4, 6 or 8 Positions

1 Meter Cable Assembly	Frequency
Insertion Loss = 3 dB	9.5 GHz / 19.0 Gbps
Return Loss = 15 dB	2.2 GHz / 4.4 Gbps
Isolation = 60 dB	3.1 GHz / 6.2 Gbps

Performance and complete test data available at [www.samtec.com?IJ5C](http://www.samtec.com?IJ5C) or contact [sig@samtec.com](mailto:sig@samtec.com)

IJ5C	NO. OF POSITIONS	ASSEMBLED LENGTH	PLATING OPTION	END OPTION	END 2 OPTION	CABLE TYPE
	-01, -02, -04, -06, -08	- "XXXX" = Assembled Length in millimeters -0100 to -1000 (100 mm) 3.94" minimum	-S = 30 μ" (0.76 μm) Gold on contact	-S = Single Ended  -D = Double Ended	-NUS = Notch up, straight P1 to P1  -NDS = Notch down, straight P1 to PN	-1 = CTB-2650F-01 cable  -2 = RG 316 cable

NO. OF POSITIONS	A
-01	(20.87) .822
-02	(24.87) .979
-04	(32.87) 1.294
-06	(40.87) 1.609
-08	(48.87) 1.924



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[IJ5C-08-2500-S-S-2](#)