

(4.00 mm) .1575"

IJ5C-08-0600-S-D-NUS-1

IJ5C-04-0400-S-D-NUS-1

**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

**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<sup>®</sup>**  
 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

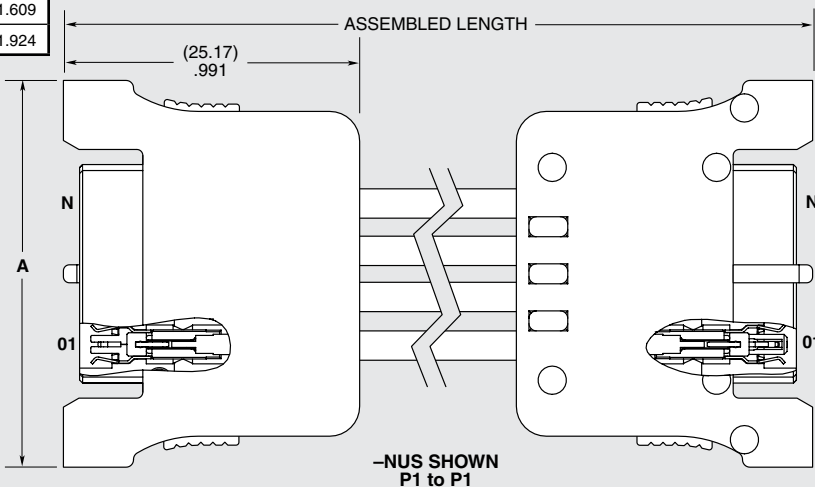
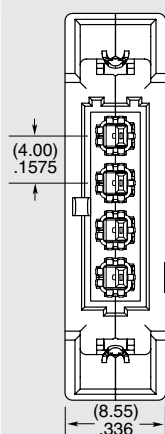
-S  
= 30 μ"  
(0.76 μm)  
Gold on  
contact

-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



# Mouser Electronics

Authorized Distributor

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[IJ5C-02-0600-S-S-1](#)