

50Ω HIGH ISOLATION RF CABLE ASSEMBLY

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?IJ5C

Insulator Material:

Black LCP

Contact Material:

Copper Alloy

Pin Material:

Copper Alloy

Dielectric Material:

Black LCP

Plating:

Au over 50μ" (1.27 μm) Ni

Operating Temp Range:

-40°C to +90°C

RoHS Compliant:

Yes

Mates with:
IP5



- Edge Rate® Contacts
- Positive Latching

Single or
Double Ended

High
performance
26 AWG
coax cable

Positive latching
system

1, 2, 4, 6 or 8
Positions

RECOGNITIONS

For complete scope of
recognitions see
www.samtec.com/quality



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:

50Ω

Current Rating:

2.5A

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:

50Ω

Current Rating:

5A DC

RoHS Compliant: Yes

Note:

This Series is non-standard,
non-returnable.

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
VSWR = 1.4	2.1 GHz / 4.2 Gbps
Isolation = 60 dB	3.1 GHz / 6.2 Gbps

Performance and complete test data available at
www.samtec.com?IJ5C or contact 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 = 30μ" (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

