samtec

ISRATE® Isolated Edge Rate Contact

(4.00 mm) .1575"

IJ5C SERIES

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

RECOGNITIONS

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

FILE NO. E111594

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

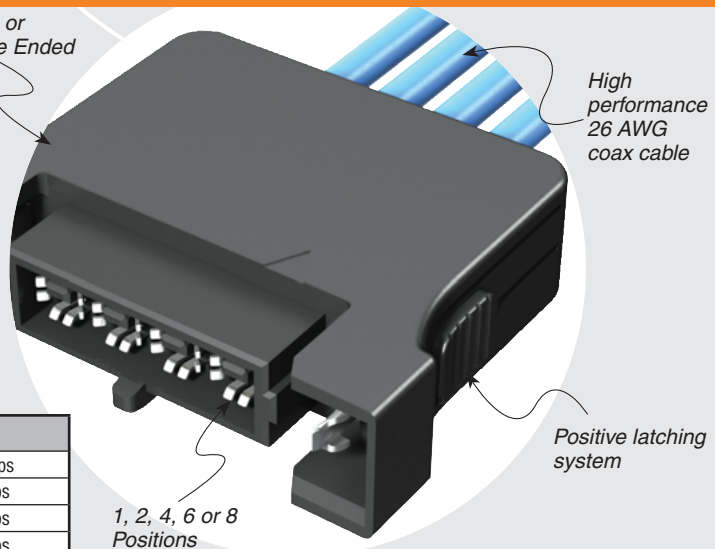
Note: This Series is non-standard, non-returnable.

Mates with: IP5

EDGE R·A·T·E® CONTACT

RUGGEDIZED BY SAMTEC

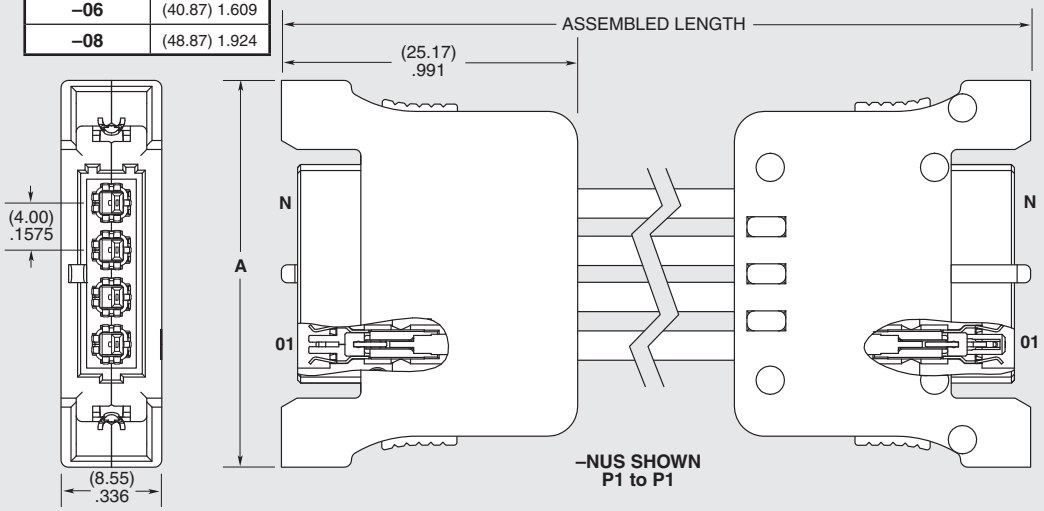
- Edge Rate® Contacts
- Positive Latching



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



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