

RF23C SERIES

50 Ω 50 GHz RF CABLE ASSEMBLY

SPECIFICATIONS

For complete specifications see www.samtec.com?RF23C

RF Connector:

Shell Material: Stainless Steel

Contact Material: BeCu

Cable Body: Stainless Steel

Insulator Material: Ultem 1000

Operating Temperature: -65 °C to +125 °C

Impedance: 50 Ω

Frequency Range: 50 GHz (2.40 mm)

40 GHz (2.92 mm)

Return Loss (Max.): -15.56 dB

V.S.W.R (Max.): 1.40

MWC-2350CU-01

Cable:

Type: Low Loss Microwave Coax

Gauge: 23 AWG

Shield Material: 1. Flat silver plated copper

2. Copper tape

3. Silver plated copper braid

Dielectric: Solid FEP

Jacket Material: FEP

Bend Radius: 6 mm

Impedance: 50 Ω ±1 Ω

Propagation Delay: 4.76 nsec/meter

Capacitance: 97.80 pF/meter

Mates with:
292

Robust in dynamic applications

TEST REPORTS

Visit www.samtec.com?RF23C or contact RFTechnicalGroup@samtec.com for complete testing information.

2.92 mm and 2.40 mm connector

APPLICATION

Copper foil shielding



CABLE TYPE

END 1

END 2

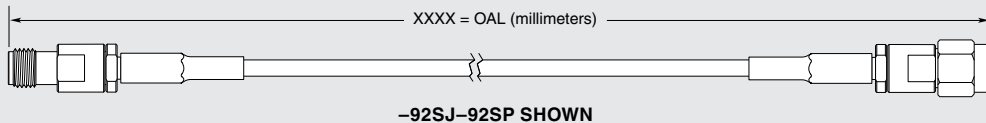
OVERALL LENGTH

RF23C

= MWC-2350CU-01 Microwave Cable with copper foil shield

Specify CONNECTOR from chart

—“XXXX”
= Overall Length in millimeters
-0152 (0152 mm)
5.984" minimum



OTHER SOLUTIONS

- Bulls Eye® Test Point available
- See www.samtec.com?BE40C for complete specifications.

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

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

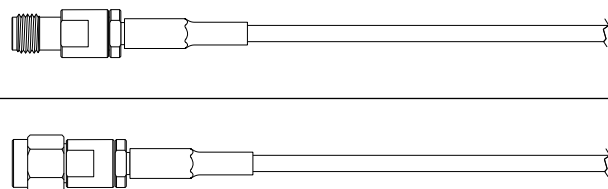
CONNECTORS*

-92SJ = 2.92 mm Straight Jack
(30 μ" (0.76 μm) Gold on Center Contact, Stainless Steel on Shell)

-24SJ = 2.40 mm Straight Jack
(50 μ" (1.27 μm) Gold on Center Contact, Stainless Steel on Shell)

-92SP = 2.92 mm Straight Plug
(30 μ" (0.76 μm) Gold on Center Contact, Stainless Steel on Shell)

-24SP = 2.40 mm Straight Plug
(50 μ" (1.27 μm) Gold on Center Contact, Stainless Steel on Shell)



* 2.40 mm connector is needed for 50 GHz performance. Contact RFTechnicalGroup@samtec.com

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