

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:

Ultram 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 \pm 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

RF23C

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

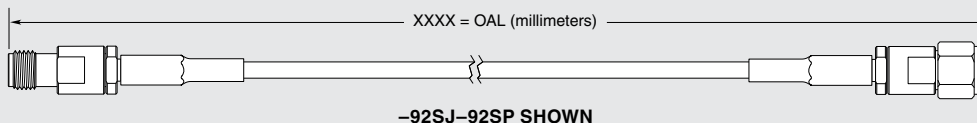
END 1

END 2

OVERALL LENGTH

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.

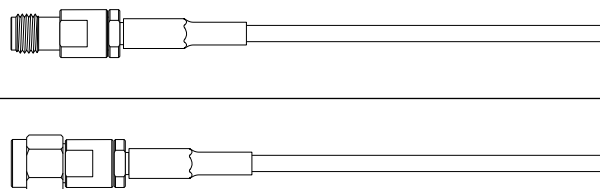
CONNECTORS*

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

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

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

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



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

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

WWW.SAMTEC.COM

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

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Samtec:

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