

COAXIAL CABLE ASSEMBLY

CUSTOMER PRODUCT SPECIFICATION SHEET

RoHS Compliant

CABLE 234 RF: RP SMA STRAIGHT PLUG + RP SMA STRAIGHT BULKHEAD JACK W/O-RING RATED TO IP67/68 + MULTIPLE CABLE SIZES

SPECIFICATIONS :

1. RP SMA STRAIGHT PLUG, P/N:  
FOR RG178 CABLE: RFCT-SMA017-M78.  
FOR Ø1.13MM CABLE: RFCT-SMA042-M13.  
FOR RG316 CABLE: RFCT-SMA017-M74.

2. COAXIAL CABLE, SEE P/N FOR DETAIL.

3. RP SMA STRAIGHT BULKHEAD JACK W/O-RING RATED TO IP67/68, P/N:  
FOR Ø1.13MM~RG178 CABLE: RFCT-SMA008-F78.  
FOR RG316 CABLE: RFCT-SMA008-F74.

ENVIRONMENTAL:

A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA008-Fxx) TESTED TO THE FOLLOWING SPECIFICATION:  
i. IP6X - DUST TIGHT - NO PARTICLE INGRESS.  
ii. IPX7 WATERPROOF FOR 30 MINUTES UP TO 1 METER UNDERWATER.  
iii. IPX8 WATERPROOF FOR 48 HOURS AT 1 METER UNDERWATER.  
iv. IPX8 WATERPROOF FOR 12 HOURS AT 5 METERS UNDERWATER.  
v. PRESSURE TEST - 1 BAR FOR 10 SECONDS.

NOTES:

1. WORKING FREQUENCY RANGE: DC-3GHz.

2. OPERATING TEMPERATURE: -40°C~+125°C

3. IMPEDANCE: 50 OHM.

①

Heatshrink Tube

②

Heatshrink Tube

③

O-RING

WASHER

NUT

A

L

B

0.5

1.7

Ø10.2

HEX 8.0

DETAIL A

1/4-36UNS-2A

B

11.4

14.8

Ø5.39

FLAT 5.85±0.05

HEX 11.0<sup>+0.0</sup><sub>-0.2</sub>

SMA JACK DETAIL DRAWING

DETAIL B

HOW TO ORDER

CABLE 234 RF - X X X X - X - X

"L" LENGTH IN MM:  
eg: 100MM = 0100  
(MIN. 0050-MAX.2000  
STANDARD = 0100, 0150, 0200)  
Tolerance: <50mm: ±2mm.  
51-200mm: ±5mm.  
201-500mm: ±7mm.  
>501mm: ±10mm.

CABLE SIZE OPTIONS:  
1 = RG178 CABLE, COLOR: BROWN.  
2 = Ø1.13MM CABLE, COLOR: GRAY.  
3 = RG316 CABLE, COLOR: BROWN.

WASHER AND NUT OPTIONS:  
BLANK = SEPARATELY PACKED (STANDARD)  
A = ALL ASSEMBLED WITH CONNECTOR

ø6.5±0.1

6.0±0.1

RECOMMENDED SMA MOUNTING HOLE

INTERNAL SEAL

IP RATED EVEN WHEN UNMATED

REV. DATE & DWN

10 26/05/16 - RJM RELEASE

11 20/02/17 - NYW

12 ADD 1/3 CABLE OPTION

13 ADD SMA JACK DETAIL DRAWING

13 27/05/19 - NYW

14 ADD OPERATING TEMP.

14 02/06/21 - NYW

15 ADD IMPEDANCE.

15 19/01/22 - NYW

16 ADD CABLE SIZE 3 OPTION

16 03/03/24 - CC

17 ADD IP RATING VIEW

17 16/02/25 - KY

Add GCT logo.

Scale: NTS

Drawn: KY

App'd: XXX

Date: 16 FEB. '25

THIRD ANGLE

Unit: mm

Unstated Tolerances:  
.X N/A  
.XX N/A  
.XXX N/A  
ANGLES N/A

Title CABLE ASSEMBLY

Revision: 1.7

Unit: mm

IP Rated RF Products

GCT

GradConn

www.gct.co

www.gradconn.com

© THIS DRAWING IS CONFIDENTIAL AND MUST NOT BE COPIED OR DISCLOSED WITHOUT WRITTEN CONSENT

Type: Cable 234 RF

CABLE 234 RF

Drawing Number:

Sheet 1 of 1

Drawing © E and O E