

COAXIAL CABLE ASSEMBLY

CUSTOMER PRODUCT SPECIFICATION SHEET

RoHS Compliant

CAB612RF: SMA S/T PLUG + SUS316 S/S SMA STRAIGHT BULKHEAD JACK W/O-RING RATED TO IP68/69K + RG178 CABLE

SPECIFICATIONS :

1. SMA STRAIGHT PLUG, GOLD PLATED, P/N: RFCT-SMA022-M78.

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

3. SMA STRAIGHT BULKHEAD JACK W/O-RING, W/SUS316 STAINLESS STEEL BODY, RATED TO IP67/68, P/N: RFCT-SMA122-F78 (WITH SILICONE O-RING), RFCT-SMA122-F78-1 (WITH EPDM O-RING).

4. WASHER: SUS316.

5. NUT: SUS316, PASSIVATED.

ENVIRONMENTAL:

A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA122-F78-1) TESTED TO THE FOLLOWING SPECIFICATION:

i. IP6X - DUST TIGHT - NO PARTICLE INGRESS.

ii. IPX8 WATERPROOF FOR 48 HOURS AT 1 METER UNDERWATER.

iii. IPX9K WATER SPRAY, 14-16L PER MINUTE, AT 8,000-10,000 KPA, AT 100-150MM DISTANCE FOR 30 SECONDS.

NOTES:

1. WORKING FREQUENCY RANGE: DC-6GHz.

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

3. IMPEDANCE: 50 OHM

4. IF THE CONNECTOR IS USED IN A CORROSIVE ENVIRONMENT, WE RECOMMEND THE CONNECTOR FACE IS PROTECTED WITH A STAINLESS STEEL DUST CAP.

5. PLEASE USE THE RECOMMENDED TORQUE FORCES FOR STAINLESS STEEL CONNECTORS. THIS IS PUBLISHED ON GCT.CO RESOURCES PAGE.

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Heatshrink Tube

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O-RING

WASHER

NUT

L

11.8

1.6

1.7

8.0

1/4-36UNS-2A

11.0

5.4

HEX

FLAT 5.9

11.4

14.8

6.0 MIN.

6.0 MIN.

RECOMMENDED SMA MOUNTING HOLE

SMA JACK DETAIL DRAWING

HOW TO ORDER

CAB612RF - X X X X - X - 1 - 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:
1 = RG178 CABLE, COLOR: BROWN.

O-RING MATERIAL OPTIONS:
S = SILICONE, RED
E = EPDM, BLACK (STANDARD)

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

INTERNAL SEAL

IP RATED EVEN WHEN UNMATED

REV. DATE & DRN

10 01/02/23 - NYW RELEASE

11 25/02/24 - CC

ADD IP RATING VIEW

12 04/03/24 - NYW

ADD SILICONE O-RING OPTION.

13 22/02/25 - CC

ADD GCT logo.

Scale: NTS

Drawn: CC

App'd: XXX

Date: 22 Feb. '25

THIRD ANGLE

Unstated

.X

.XX

.XXX

ANGLES

Tolerances:

±0.2

±0.2

±0.2

N/A

Title

CABLE ASSEMBLY

Revision: 1.3

Unit: mm

IP Rated RF Products

GCT

GradConn

www.gct.co

www.gradconn.com

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CAB612RF

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