

COAXIAL CABLE ASSEMBLY

CUSTOMER PRODUCT SPECIFICATION SHEET

RoHS Compliant

CABLE 305 RF: RF CABLE ASSEMBLY, SMA R/A PLUG + SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68 + MULTIPLE CABLE SIZES

SPECIFICATIONS :

1. SMA RIGHT ANGLE PLUG, P/N FOR RG178 CABLE: RFCT-SMA025-M78, P/N FOR Ø1.37MM CABLE: RFCT-SMA044-M37. P/N FOR Ø1.13MM LL CABLE: RFCT-SMA070-M13.

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

3. SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68, P/N: RFCT-SMA002-F78.

ENVIRONMENTAL:

A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA002-F78) 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. THE ORIENTATION OF CONNECTORS ON DRAWING IS FOR REFERENCE ONLY, IF THE ORDER IS LEFT BLANK THE CONNECTOR WILL NOT HAVE FIXED ORIENTATION.

2. FIXED ORIENTATION IS SUGGESTED FOR CABLE LENGTH 50MM TO 100MM. PLEASE SPECIFY THE FIXED ORIENTATIONS FROM THE ORDER CODE (F1, F2, ETC)

3. CONTACT GCT IF THE ORIENTATION YOU REQUIRE IS NOT SHOWN.

4. WORKING FREQUENCY RANGE: DC-3GHz.

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

6. IMPEDANCE: 50 OHM.

①

Heatshrink Tube

②

Heatshrink Tube

③

O-RING

WASHER

NUT

L

14.8

0.5

1.7

0.5

6.0±0.1

φ6.5±0.1

RECOMMENDED SMA MOUNTING HOLE

1/4-36UNS-2A

11.4

22.0

φ5.39

FLAT 5.85

HEX 11.0

HOW TO ORDER

CABLE 305 RF - X X 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 = Ø1.37MM CABLE, COLOR: BLACK.
3 = Ø1.13MM LOW LOSS CABLE, COLOR: GRAY.

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

ORIENTATION OPTIONS:
BLANK = DOES NOT HAVE A FIXED ORIENTATION
F1 = SMA PLUG CONNECTION DOWN (L=50-200MM)
F2 = SMA PLUG CONNECTION UP (L=50-200MM)
(SEE NOTES 1, 2, 3 AND DIAGRAMS FOR MORE INFORMATION)

SMA JACK DETAIL DRAWING

INTERNAL SEAL

IP RATED EVEN WHEN UNMATED

'F1' ORIENTATION

Flat

'F2' ORIENTATION

Flat

REV. DATE & DRN	10 02/04/78 - NYW RELEASE
11 10/06/78 - NYW	
12 10/06/78 - NYW	
13 10/07/79 - NYW	
14 15/01/70 - NYW	
15 24/07/70 - NYW	
16 10/03/74 - CC	
ADD IP RATING VIEW	
16 16/02/75 - KY	
ADD GCT logo.	

Scale: NTS	THIRD ANGLE	Unstated .X .XX .XXX ANGLES	Tolerances: N/A N/A N/A N/A
Drawn: KY			
App'd: XXX	Title CABLE ASSEMBLY		
Date: 16 FEB. '25	Revision: 1.6	Unit: mm	

IP Rated
RF Products

www.gct.co

www.gradconn.com

Type: Cable 305 RF
CABLE 305 RF
Drawing Number:
Sheet 1 of 1
Drawing © E and O E