

COAXIAL CABLE ASSEMBLY

CUSTOMER PRODUCT SPECIFICATION SHEET

RoHS Compliant

CAB655RF: HIROSE U.FL PLUG TO FRONT MOUNT SMA BULKHEAD JACK, WITH O-RING, IP67/68, 1.13MM CABLE, 6GHz

SPECIFICATIONS :

1. HIROSE U.FL PLUG, P/N: U.FL-LP-068HF

2. 1.13MM COAXIAL CABLE, COLOR: GRAY

3. FRONT MOUNT SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68, P/N: RFCT-SMA087-F78.

ENVIRONMENTAL:

A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA087-F78) RATED 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.

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-6GHz.

5. OPERATING TEMPERATURE: -40°C~+85°C.

6. IMPEDANCE: 50 Ohm.

7. IT IS INTENDED THAT MOUNTING OF THIS CONNECTOR IS ACHIEVED USING THE NUT AND WASHER PROVIDED. PLEASE CONTACT GCT FOR ADVISE IF PLANNING TO USE A DIFFERENT METHOD OF MOUNTING.

USAGE PRECAUTIONS: CABLES USING 'MICRO' COAX ARE DELICATE:

(i) HANDLE WITH CARE.

(ii) DO NOT TWIST; APPLY EXCESSIVE FORCES OR SHARP BENDS TO THE CABLE. DO NOT FORCEFULLY DEFORM WIRES.

(iii) CONSULT CONNECTOR MANUFACTURER'S DATASHEETS FOR DETAILED NOTES ON HANDLING INSTRUCTIONS.

NUT

WASHER

1.7

0.5

HEX 8.0

10.2

1

2

HEATSHRINK TUBE

O-RING

3

5.86

2.54

L

1/4-36UNS-2A

1/4-36UNS-2A

5.54

5.86

13.94

19.36

HEX 11.0

FLAT 5.85

6.0±0.1

φ6.5±0.1

RECOMMENDED SMA MOUNTING HOLE

SMA DETAIL DRAWING

HOW TO ORDER

CAB655RF - X X X X - X X - X - 1

"L" LENGTH IN MM:  
eg: 100MM = 0100  
(MIN. 0050-MAX.0400)  
STANDARD = 0100, 0150, 0200)  
TOLERANCE: 50-200mm: ±5mm.  
201-400mm: ±7mm.

CABLE SIZE:  
1 = φ1.13MM CABLE, COLOR: GRAY  
WASHER AND NUT OPTIONS:  
BLANK = SEPARATELY PACKED (STANDARD)  
A = ASSEMBLED WITH CONNECTOR

ORIENTATION OPTIONS:  
BLANK = DOES NOT HAVE A FIXED ORIENTATION  
F1 = U.FL CONNECTION DOWN (L=50-200MM)  
F2 = U.FL CONNECTION UP (L=50-200MM)  
F3 = U.FL CONNECTION AND D FLAT SAME ORIENTATION (L=50-200MM)  
F4 = U.FL CONNECTION AND D FLAT OPPOSITE ORIENTATION (L=50-200MM)  
(SEE NOTES 1, 2, 3 AND DIAGRAMS FOR MORE INFORMATION)

'F1' ORIENTATION

Flat

'F3' ORIENTATION

Flat

'F2' ORIENTATION

Flat

'F4' ORIENTATION

Flat

INTERNAL SEAL

IP RATED EVEN WHEN UNMATED

REV. DATE & DRN  
10 24/06/20 - CC RELEASE  
11 22/02/25 - CC  
Add GCT logo.

Scale: NTS  
Drawn: CC  
App'd: XXX  
Date: 22 Feb. '25

THIRD ANGLE  
Unstated Tolerances:  
X ±0.2  
.XX ±0.2  
.XXX ±0.2  
ANGLES N/A

Title CABLE ASSEMBLY  
Revision: 1.1  
Unit: mm

IP Rated RF Products

GCT GradConn  
www.gct.co www.gradconn.com

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CAB655RF

Sheet 1 of 1

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