

COAXIAL CABLE ASSEMBLY

CUSTOMER PRODUCT SPECIFICATION SHEET

RoHS Compliant

CAB575RF: I-PEX MHF 4L PLUG + S/S SMA STRAIGHT BULKHEAD JACK W/O-RING RATED TO IP68/69K + Ø1.37MM CABLE, 6GHz

SPECIFICATIONS :

- I-PEX MHF 4LPLUG, GOLD PLATED, P/N: 20632-001R-37.
- Ø1.37MM COAXIAL CABLE, COLOR: BLACK.
- SMA STRAIGHT BULKHEAD JACK W/O-RING, W/SUS303 STAINLESS STEEL BODY, RATED TO IP68/69K, P/N: RFCT-SMA123-F37 (WITH SILICONE O-RING), RFCT-SMA123-F37-1 (WITH EPDM O-RING).
- WASHER: SUS304.
- NUT: SUS303, PASSIVATED.

ENVIRONMENTAL:

A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA123-F37-1) TESTED TO THE FOLLOWING SPECIFICATION:

- IP6X - DUST TIGHT - NO PARTICLE INGRESS.
- IPX8 WATERPROOF FOR 48 HOURS AT 1 METER UNDERWATER.
- IPX9K WATER SPRAY, 14-16L PER MINUTE, AT 8,000-10,000 KPA, AT 100-150MM DISTANCE FOR 30 SECONDS.

NOTES:

- THE ORIENTATION OF CONNECTORS ON DRAWING IS FOR REFERENCE ONLY, IF THE ORDER IS LEFT BLANK THE CONNECTOR WILL NOT HAVE FIXED ORIENTATION.
- FIXED ORIENTATION IS SUGGESTED FOR CABLE LENGTH 50MM TO 100MM. PLEASE SPECIFY THE FIXED ORIENTATIONS FROM THE ORDER CODE (F1, F2, ETC)
- CONTACT GCT IF THE ORIENTATION YOU REQUIRE IS NOT SHOWN.
- WORKING FREQUENCY RANGE: DC-6GHz.
- OPERATING TEMPERATURE: -40°C TO +85°C
- IMPEDANCE: 50 OHM
- IF THE CONNECTOR IS USED IN A CORROSIVE ENVIRONMENT, WE RECOMMEND THE CONNECTOR FACE IS PROTECTED WITH A STAINLESS STEEL DUST CAP.
- PLEASE USE THE RECOMMENDED TORQUE FORCES FOR STAINLESS STEEL CONNECTORS. THIS IS PUBLISHED ON GCT.CO RESOURCES PAGE.

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.

1

2

3

4

5

L

0.5

1.7

8.0

10.2

Ø1.37

I-PEX 4L DETAIL DRAWING

3.65±0.15

1.36±0.15

6.0 Min.

RECOMMENDED SMA MOUNTING HOLE

Ø6.5 Min.

6.0 Min.

SMA JACK DETAIL DRAWING

11.0

5.9

5.4

11.4

14.8

1/4-36UNS-2A

HOW TO ORDER

CAB575RF - X X X X - X X - X - 1 - X

"L" LENGTH IN MM:
eg: 100MM = 0100
(MIN. 0025-MAX.0400)
STANDARD = 0100, 0150, 0200)
Tolerance: 50mm: ±2mm.
51-200mm: ±5mm.
201-400mm: ±7mm.

CABLE SIZE:
1 = Ø1.37MM CABLE, COLOR: BLACK.

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

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

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

'F1' ORIENTATION

Flat

'F2' ORIENTATION

Flat

INTERNAL SEAL

IP RATED EVEN WHEN UNMATED

REV. DATE & DSN

10 27/06/23 - NFW RELEASE

11 06/07/23 - NFW MATERIAL

12 29/11/23 - NFW MATERIAL

13 03/02/24 - CC

14 01/03/24 - NFW

15 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:
N/A
N/A
N/A
N/A

Title CABLE ASSEMBLY

Revision: 1.5

Unit: mm

IP Rated
RF Products

GCT
www.gct.co

GradConn
www.gradconn.com

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CAB575RF

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