

COAXIAL CABLE ASSEMBLY

CUSTOMER PRODUCT SPECIFICATION SHEET

RoHS Compliant

CAB430RF: I-PEX MHF 5L PLUG + RP SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68 + 1.13MM CABLE, 6GHz

SPECIFICATIONS :

1. I-PEX MHF 5L PLUG, P/N:20668-001R-13.

2. 1.13MM COAXIAL CABLE, COLOR: GRAY

3. RP SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68, P/N: RFCT-SMA071-F78.

ENVIRONMENTAL:

A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA071-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.

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.

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HEATSHRINK TUBE

WASHER

NUT

0-RING

2.54

0.5

1.7

HEX 8.0

Ø10.2

L

1.3

3.55

I-PEX MHF 5L PLUG

HEX 11.0

FLAT 5.85

1/4-36UNS-2A

11.4

13.94

A

SMA DETAIL DRAWING

DETAIL A

RECOMMENDED SMA MOUNTING HOLE

6.0±0.1

Ø6.5±0.1

HOW TO ORDER

CAB430RF - 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 = Ø1.13MM 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 = MHF CONNECTION DOWN (L=50-200MM)
F2 = MHF CONNECTION UP (L=50-200MM)
F3 = MHF CONNECTION AND D FLAT SAME ORIENTATION (L=50-200MM)
F4 = MHF 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

Scale: NTS

Drawn: CC

App'd: XXX

Date: 16 FEB. '25

THIRD ANGLE

Revision: 1.2

Unit: mm

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

Title CABLE ASSEMBLY

IP Rated RF Products

GCT GradConn

www.gct.co www.gradconn.com

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Drawing Number: CAB430RF

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