

SPECIFICATIONS :

1. I-PEX MHF PLUG, P/N:
FOR $\phi 1.13$ MM CABLE: 20278-112R-13.
FOR $\phi 0.81$ MM CABLE: 20278-112R-08.
FOR RG178 CABLE: 20278-112R-18.
FOR $\phi 1.37$ MM CABLE 20351-112R-37.
FOR $\phi 1.32$ MM / $\phi 1.32$ MM DS CABLE: 20278-112R-32.
2. COAXIAL CABLE, SEE P/N FOR DETAIL.
3. FRONT MOUNT RP SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68, P/N: RFCT-SMA013-F78.

ENVIRONMENTAL:

A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA013-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 25MM TO 100MM.

PLEASE SPECIFY THE FIXED ORIENTATIONS FROM THE ORDER CODE (F1, F2, ETC)

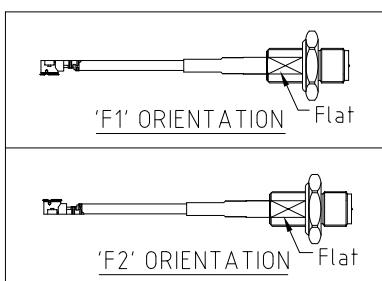
3. CONTACT GRADCONN IF THE ORIENTATION YOU REQUIRE IS NOT SHOWN.

4. WORKING FREQUENCY RANGE: DC-3GHZ.

5. OPERATING TEMPERATURE: $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$.

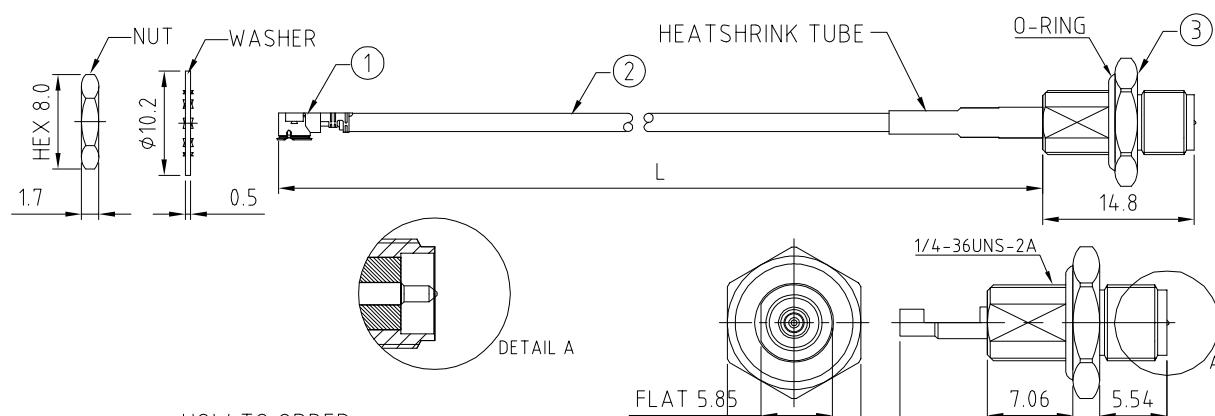
6. IT IS INTENDED THAT MOUNTING OF THIS CONNECTOR IS ACHIEVED USING THE NUT AND WASHER PROVIDED. PLEASE CONTACT GRADCONN FOR ADVISE IF PLANNING TO USE A DIFFERENT METHOD OF MOUNTING. .

7. 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.



SMA DETAIL DRAWING

HOW TO ORDER

CABLE 197 RF - - - - - -

"L" LENGTH IN MM:

eg: 100MM = 100
(MIN. 025-MAX.400)
STANDARD = 100, 150, 200)
Tolerance: 20-50mm: ± 2 mm.
51-200mm: ± 5 mm.
201-400mm: ± 7 mm.

CABLE SIZE OPTIONS:

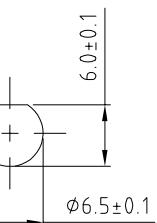
- 1 = $\phi 1.13$ MM CABLE, COLOR: GRAY
- 2 = $\phi 0.81$ MM CABLE, COLOR: GRAY
- 3 = $\phi 1.13$ MM LOW LOSS CABLE, COLOR: GRAY
- 4 = RG178 CABLE, COLOR: BROWN
- 5 = $\phi 1.37$ MM CABLE, COLOR: BLACK
- 6 = $\phi 1.32$ MM CABLE, COLOR: GRAY
- 7 = $\phi 1.32$ MM DS CABLE, COLOR: GRAY

WASHER AND NUT OPTIONS:

BLANK = SEPARATELY PACKED (STANDARD)
A = ALL ASSEMBLED WITH CONNECTOR

ORIENTATION OPTIONS:

BLANK = DOES NOT HAVE A FIXED ORIENTATION
F1 = MHF CONNECTION DOWN (L=25-100MM)
F2 = MHF CONNECTION UP (L=25-100MM)
(SEE NOTES 1, 2, 3 AND DIAGRAMS FOR MORE INFORMATION)



RECOMMENDED SMA MOUNTING HOLE

REV. DATE & DRN	10 21/01/15 - NYW
UPDATE SHA PART NUMBER	
12 30/10/15 - R4H ADD IP67/68 RATING INFO	
13 17/02/16 - NYW AMEND SHA P/N	
14 26/06/16 - NYW ADD IP67/68 TEST STATUS	
15 10/01/17 - NYW ADD 0.81 CABLE OPTION 2.	
16 22/02/17 - NYW ADD RG178 CABLE OPTION 4.	
17 04/10/18 - NYW ADD 1.37MM CABLE OPTION 5.	
18 27/05/19 - NYW ADD 1.32MM CABLE OPTION 6.	
19 17/08/20 - NYW ADD NOTE 6.	
20 28/06/21 - NYW ADD 1.32MM CABLE OPTION 6.	
21 05/11/21 - NYW ADD CABLE SIZE OPTION 7.	
22 29/04/22 - NYW ADD NOTE 7.	
23 CORRECT I-PEX P/N FOR 1.37 CABLE	

Scale: NTS	THIRD ANGLE	Unstated X XX XXX ANGLES	Tolerances: N/A N/A N/A N/A		GRADConn	www.gradconn.com	Type: Cable 197 RF
Drawn: NYW		CABLE 197 RF					
App'd: XXX	Title CABLE ASSEMBLY						Drawing Number:
Date: 29 APR. '22	Revision: 2.2	Unit: mm					

(C) THIS DRAWING IS CONFIDENTIAL AND MUST NOT BE COPIED OR DISCLOSED WITHOUT WRITTEN CONSENT

Drawing (C) E and O E