

CABLE 197 RF: I-PEX MHF + FRONT MOUNT RP SMA S/T BULKHEAD JACK WITH O-RING RATED TO IP67/68 + MULTIPLE CABLE SIZES

SPECIFICATIONS :

1. I-PEX MHF PLUG, P/N:

- FOR  $\phi$ 1.13MM CABLE: 20278-112R-13.
- FOR  $\phi$ 0.81MM CABLE: 20278-112R-08.
- FOR RG178 CABLE: 20278-112R-18.
- FOR  $\phi$ 1.37MM CABLE 20351-112R-37.
- FOR  $\phi$ 1.32MM /  $\phi$ 1.32MM 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:

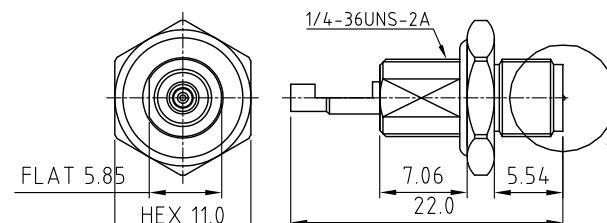
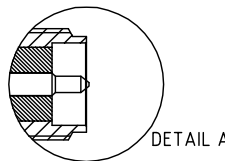
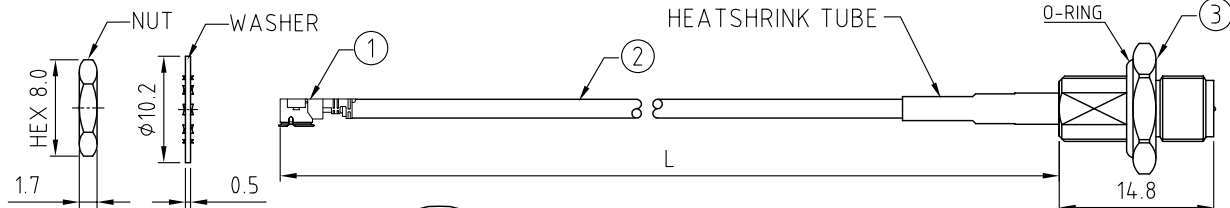
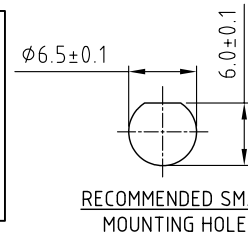
A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA013-F78) RATED TO

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.

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.



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 GCT IF THE ORIENTATION YOU REQUIRE IS NOT SHOWN.
- 4. WORKING FREQUENCY RANGE: DC-3GHZ.
- 5. OPERATING TEMPERATURE: -40°C~+90°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.

HOW TO ORDER  
CABLE 197 RF - XXX - XX - X - X

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

CABLE SIZE OPTIONS:

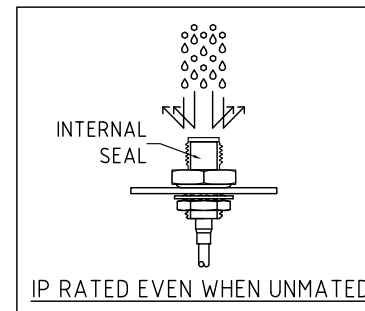
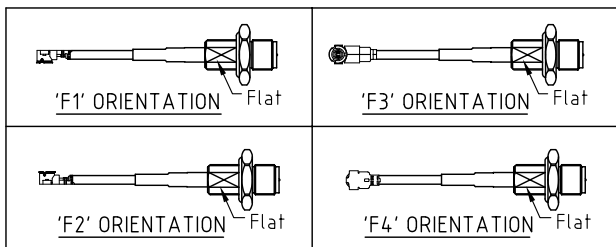
- 1 =  $\phi$ 1.13MM CABLE, COLOR: GRAY
- 2 =  $\phi$ 0.81MM CABLE, COLOR: GRAY
- 3 =  $\phi$ 1.13MM LOW LOSS CABLE, COLOR: GRAY
- 4 = RG178 CABLE, COLOR: BROWN
- 5 =  $\phi$ 1.37MM CABLE, COLOR: BLACK
- 6 =  $\phi$ 1.32MM CABLE, COLOR: GRAY
- 7 =  $\phi$ 1.32MM DS CABLE, COLOR: GRAY

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)
  - F3 = MHF CONNECTION AND D FLAT SAME ORIENTATION (L=25-100MM)
  - F4 = MHF CONNECTION AND D FLAT OPPOSITE ORIENTATION (L=25-100MM)
- (SEE NOTES 1, 2, 3 AND DIAGRAMS FOR MORE INFORMATION)



REV. DATE & DRN
10. 2/07/15 - NYW RELEASE
11. 29/07/15 - NYW EXT NUMBER
12. 30/04/15 - NYW P/N
13. ADD IP67/68 RATING INFO.
14. 17/02/16 - NYW AMEND SMA P/N
15. 29/06/16 - NYW AMEND IP67/68 TEST STATUS
16. ADD 137MM CABLE OPTION 2.
17. ADD 113MM CABLE OPTION 3.
18. 22/02/17 - NYW ADD RG178 CABLE OPTION 4.
19. 04/10/18 - NYW ADD 137MM CABLE OPTION 5.
20. 17/08/20 - NYW ADD OPERATING TEMP.
21. 09/09/21 - NYW ADD NOTE 6.
22. 09/09/21 - NYW ADD NOTE 7.
23. 05/11/21 - NYW ADD CABLE SIZE OPTION 7.
24. 03/03/21 - NYW ADD NOTE 7.
25. 29/04/22 - NYW CORRECT IPEX P/N FOR 137 CABLE.
26. 23/02/22 - CC ADD ORIENTATION OPTIONS F3&F4.
27. 03/03/21 - CC ADD IP RATING VIEW
28. 16/02/21 - 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: 2.5	Unit: mm	

IP Rated RF Products



Type: Cable 197 RF
CABLE 197 RF
Drawing Number:
Sheet 1 of 1
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