

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.

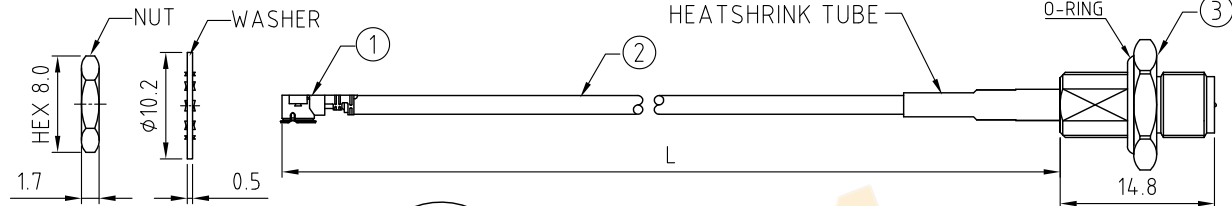
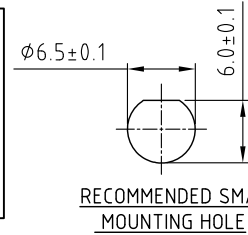
ENVIRONMENTAL:

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.

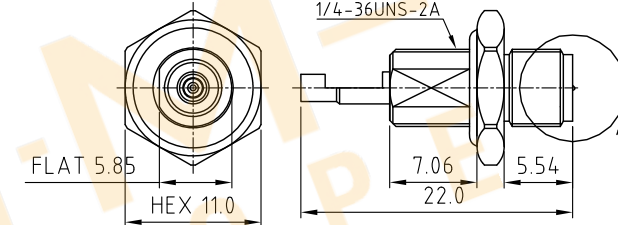
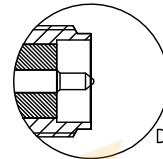
USAGE PRECAUTIONS: CABLES USING 'MICRO' COAX ARE DELICATE:

- (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 GRADCONN 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.



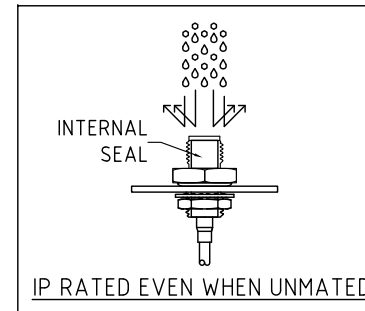
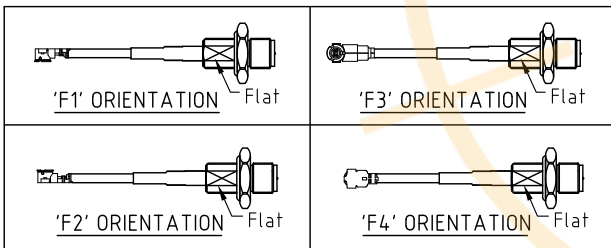
HOW TO ORDER  
CABLE 197 RF - X X X - X X - X - X

"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

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)

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



REV. DATE & DRN
10 27/07/15 - N1W RELEASE
11 29/07/15 - N1W N1W
12 UPDATE SMA PART NUMBER
13 ADD IP67/68 RATING INFO
14 ADD IP67/68 RATING INFO
15 AMEND SMA P/N
16 AMEND IP67/68 TEST STATUS
17 ADD 0.81 CABLE OPTION 2.
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Scale: NTS	THIRD ANGLE	Unstated Tolerances:
Drawn: CC		.X N/A
App'd: XXX	Title CABLE ASSEMBLY	.XX N/A
Date: 3 MAR. '24	Revision: 2.4	.XXX N/A
	Unit: mm	ANGLES N/A

IP Rated RF Products

www.gradconn.com

Type: Cable 197 RF
CABLE 197 RF
Drawing Number:
Sheet 1 of 1
Drawing © E and O E

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Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.



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