

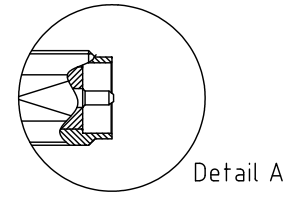
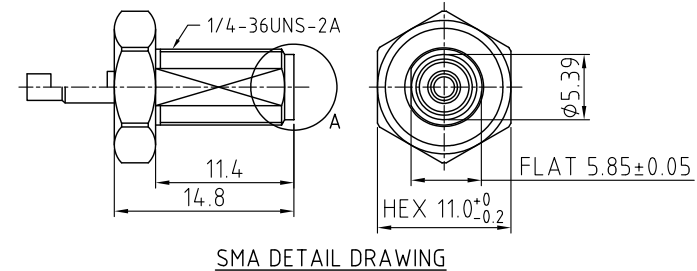
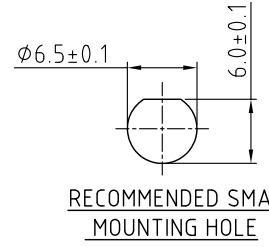
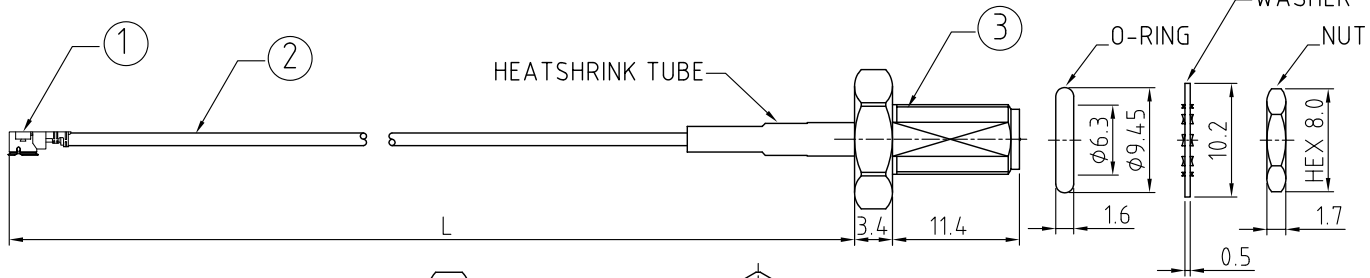
CABLE 138 RF: IPEX MHF PLUG + RP SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68 + MULTIPLE CABLES SIZES, 3GHz

**SPECIFICATIONS:**  
 1. IPEX MHF PLUG FOR  $\phi$ 1.13MM CABLE: 20278-112R-13, FOR  $\phi$ 1.37MM CABLE: 20351-112R-37, FOR RG178 CABLE: 20278-112R-18, FOR  $\phi$ 1.32MM DS CABLE: 20278-112R-32.  
 2. COAXIAL CABLE, SEE P/N OPTIONS.  
 3. RP SMA ST BULKHEAD JACK WITH O-RING RATED TO IP67/68, PN: RFCT-SMA008-F78, GOLD.

**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.

**ENVIRONMENTAL:**  
 A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA008-F78) TESTED TO THE FOLLOWING SPECIFICATION:  
 i. IP6X - DUST TIGHT - NO PARTICLE INGRESS.  
 ii. IPX7 WATERPROOF FOR 30 MINUTES UP TO 1M UNDERWATER.  
 iii. IPX8 WATERPROOF FOR 48 HOURS AT 1M UNDERWATER.  
 iv. IPX8 WATERPROOF FOR 12 HOURS AT 5M UNDERWATER.  
 v. PRESSURE TEST - 1 BAR FOR 10 SECONDS.

**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. IMPEDANCE: 50 OHM.



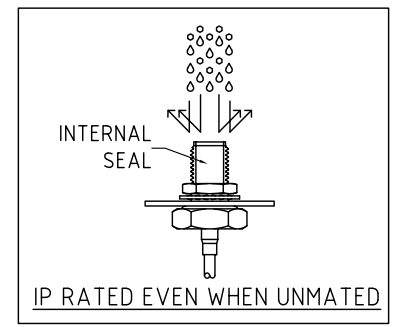
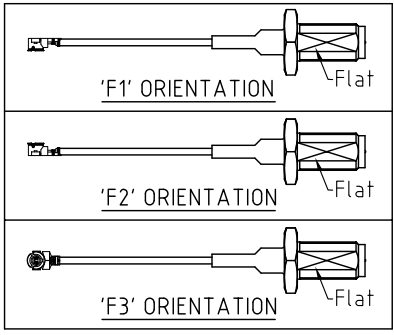
**HOW TO ORDER**  
 CABLE 138 RF - X X X - X X - X - X

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

**CABLE SIZE OPTIONS:**  
 0 =  $\phi$ 1.13MM CABLE, COLOR: GRAY.  
 1 =  $\phi$ 1.13MM LOW LOSS CABLE, COLOR: GRAY.  
 2 =  $\phi$ 1.37MM CABLE, COLOR: BLACK.  
 3 = RG178 CABLE, COLOR: BROWN.  
 4 =  $\phi$ 1.32MM DS 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=25-200MM)  
 F2 = MHF CONNECTION UP (L=25-200MM)  
 F3 = MHF CONNECTION AND D FLAT SAME ORIENTATION (L=25-200MM)  
 (SEE NOTES 1, 2, 3 AND DIAGRAMS FOR MORE INFORMATION)



REV. DATE & DRN
10. 09/07/12 - NYW RELEASE
11. 05/02/13 - NYW
ADD NOTE 4.
12. 06/06/14 - NYW
ADD NEW P/N
13. 04/17/13 - NYW
AMEND FREQUENCY TO 3GHz.
14. 23/07/15 - NYW
UPDATE SMA PART NUMBER.
15. 30/10/15 - R.JH
ADD IP67/68 RATING INFO.
16. 16/06/16 - NYW
ADD I3 L.L CABLE OPTION.
17. 30/09/16 - R.JH
ADD I3 L.L CABLE OPTION.
18. 19/05/17 - NYW
ADD RG178 CABLE OPTION.
19. 27/05/19 - NYW
ADD OPERATING TEMP.
20. 05/07/21 - NYW
ADD CABLE SIZE OPTION 4.
21. 25/07/24 - CC
ADD IP RATING VIEW.
22. 2/05/24 - CC
Add F3 orientation option.
Add frequency 3GHz to title.
23. 16/02/25 - 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: 2.3	Unit: mm	

IP Rated RF Products

www.gct.co      www.gradconn.com

Type: Cable 138 RF  
 CABLE 138 RF  
 Drawing Number:  
 Sheet 1 of 1  
 Drawing © E and O E

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