CUSTOMER PRODUCT SPECIFICATION SHEET



CAB412RF: I-PEX MHF PLUG + S/S SMA FFMALF STRAIGHT BUI KHFAD JACK W/O-RING RATFD TO IP68/69K + MUI TIPLF CABLF SIZES

SPECIFICATIONS:

1. I-PEX MHF PLUG, GOLD PLATED, P/N: FOR RG178 CABLE: 20278-112R-18. FOR Ø1.13MM CABLE: 20278-112R-13.

FOR Ø1.32MM DS CABLE: 20278-112R-32.

2. COAXIAL CABLE, SEE P/N OPTIONS FOR DETAIL.

3. SMA STRAIGHT BULKHEAD JACK W/O-RING, W/SUS303 STAINLESS STEEL BODY, TESTED TO IP68/69K, P/N: RFCT-SMA061-F78 (WITH SILICON O-RING) OR RFCT-SMA061-F78-1 (WITH EPDM 0-RING).

FNVIRONMENTAL:

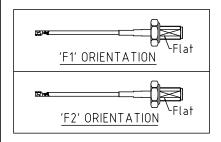
- A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA061-F78) TESTED TO THE FOLLOWING SPECIFICATION:
 - i. IP6X DUST TIGHT NO PARTICLE INGRESS.
- ii. IPX8 WATERPROOF FOR 48 HOURS AT 1 METER UNDERWATER.
- iii. IPX9K WATER SPRAY, 14-16L PER MINUTE, AT 8,000-10,000 KPA, AT 100-150MM DISTANCE FOR 30 SECONDS.

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.

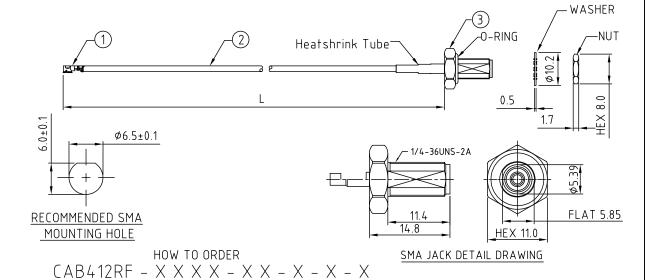
PLEASE SPECIFY THE FIXED ORIENTATIONS FROM THE ORDER CODE (F1, F2, ETC)

- 3. CONTACT GCT IF THE ORIENTATION YOU REQUIRE IS NOT SHOWN.
- 4. WORKING FREQUENCY RANGE: DC-3GHz.
- 5. OPERATING TEMPERATURE: -40°C TO +85°C
- 6. IMPEDANCE: 50 OHM
- 7. IF THE CONNECTOR IS USED IN A CORROSIVE ENVIRONMENT, WE RECOMMEND THE CONNECTOR FACE IS PROTECTED WITH A STAINLESS STEEL DUST CAP.
- 8. PLEASE USE THE RECOMMENDED TORQUE FORCES FOR STAINLESS STEEL CONNECTORS. THIS IS PUBLISHED ON GCT.CO RESOURCES PAGE.



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.



"L" LENGTH IN MM: CABLE SIZE OPTIONS:

eq: 100MM = 0100 (MIN. 0050-MAX.0400 STANDARD = 0100, 0150, 0200) Tolerance: 50mm: ±2mm.

51-200mm: ±5mm. 201-400mm: ±7mm. 1 = RG178 CABLE, COLOR: BROWN. $2 = \phi 1.13MM$ CABLE, COLOR: GRAY

 $3 = \phi 1.32MM$ DS CABLE, COLOR: GRAY.

WASHER AND NUT OPTIONS:

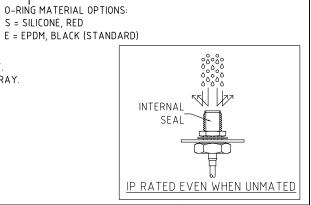
BLANK = SEPARATELY PACKED (STANDARD) A = ALL ASSEMBLED WITH CONNECTOR

ORIENTATION OPTIONS:

BLANK = DOES NOT HAVE A FIXED ORIENTATION

F1 = MHF CONNECTION DOWN (L=50-200MM) F2 = MHF CONNECTION UP (L=50-200MM)

(SEE NOTES 1, 2, 3 AND DIAGRAMS FOR MORE INFORMATION)



	REV. DATE & DRN	I.0 22/06/'20 - NYW RELEASE	1 30/06/'20 - NYW AMEND 0-RING ORDERING CODES.	2 28/09/'20 – NYW UPDATE P/N NUMBERING.	1.3 23/11/'20 - NYW ADD IPX9K TESTING INFO.	4 27/04/'21 - NYW ADD NOTE 7.	1.5 05/07/′21 – NYW AMEND NOTE 7.	1.6 15/10/"21 - NYW ADD CABLE SIZE OPTION 2.	7 21/12/'22 - NYW ADD NOTE 8.	1.8 08/06/'23 - NYW ADD CABLE SIZE OPTION 3.	1.9 20/01/'24 - CC ADD IP RATING VIEW	2.0 16/02/'25 - CC Add GCT logo.	
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Scale:	NTS	THIRD ANGLE		Unstated Tolerances: .X N/A .XX N/A			
Drawn:	СС	\Rightarrow	-	.XXX ANGLES	N/A N/A		
App'd:	XXX	Title CABLE ASSEMBLY					
Date: 16	FEB. '25	Revision: 2.0		Unit: mm			

IP Rated RF Products



S = SILICONE, RED

CAB412RF

Drawing Number:

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

Sheet 1 of 1 Drawing (C) E and 0 E

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

GCT:

CAB412RF-0100-A-1-E CAB412RF-0200-A-1-S CAB412RF-0200-A-1-E