COAXIAL CABLE ASSEMBLY | CUSTOMER PRODUCT SPECIFICATION SHEET

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

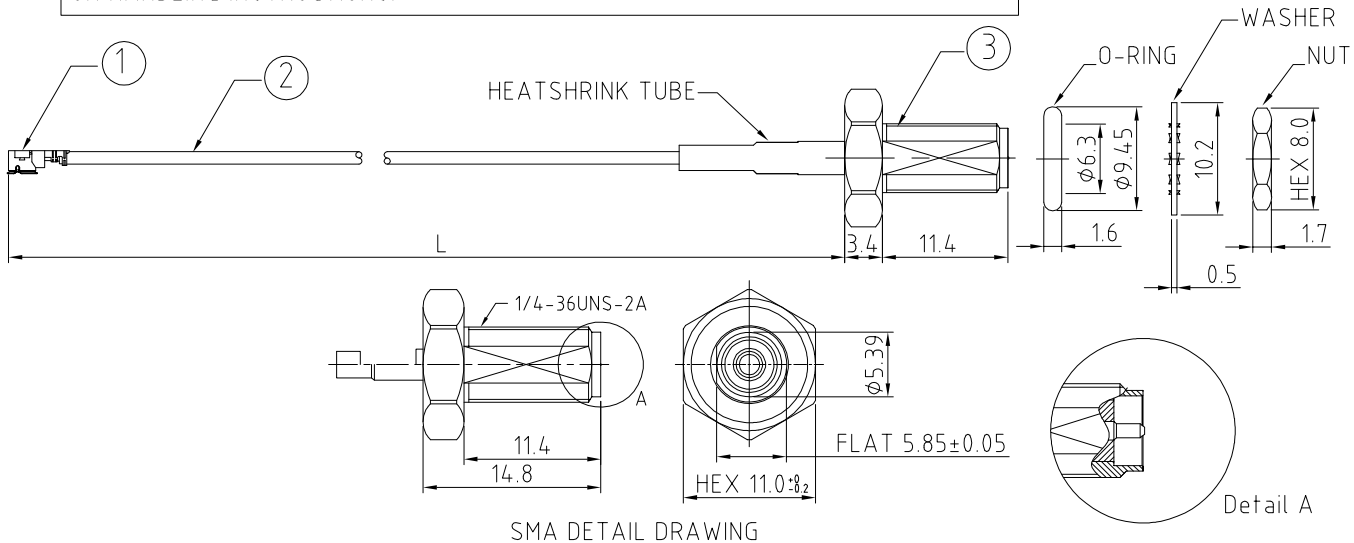
RoHS Compliant

SPECIFICATIONS:
1. IPEX MHF PLUG FOR ⌀1.13MM CABLE: 20278-112R-13, FOR ⌀1.37MM CABLE: 20351-112R-37, FOR RG178 CABLE: 20278-112R-18, FOR ⌀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.

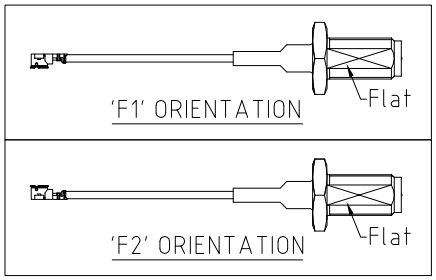
ENVIRONMENTAL:
A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA008-F78) TESTED TO THE FOLLOWING SPECIFICATION:
i. IP6X - DUST TIGHT - NO PARTICLE INGRESS.
ii. IPX7 WATERPROOF FOR 30 MINUTES UP TO 1M UNDERWATER.
iii. IPX8 WATERPROOF FOR 48 HOURS AT 1M UNDERWATER.
iv. IPX8 WATERPROOF FOR 12 HOURS AT 5M UNDERWATER.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

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

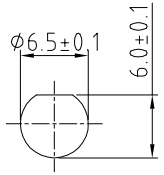
CABLE 138 RF - X X X - X X - X - X

"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 = ⌀1.13MM CABLE, COLOR: GRAY.
1 = ⌀1.13MM LOW LOSS CABLE, COLOR: GRAY.
2 = ⌀1.37MM CABLE, COLOR: BLACK.
3 = RG178 CABLE, COLOR: BROWN.
4 = ⌀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=25-100MM)
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	09/07/'12 - NYW	RELEASE
11	05/02/'13 - NYW	ADD NOTE 4.
12	06/18/'13 - NYW	AMEND SMA P/N.
13	06/11/'13 - NYW	AMEND FREQUENCY TO 3GHz.
14	23/07/'15 - NYW	UPDATE SMA PART NUMBER.
15	30/10/'15 - RJH	ADD PACKAGING INFO.
16	06/06/'16 - NYW	ADD 1.13 CABLE OPTION.
17	30/09/'16 - RJH	ADD 1.37 CABLE OPTION.
18	19/05/'17 - NYW	ADD RG178 CABLE OPTION.
19	27/05/'19 - NYW	ADD OPERATING TEMP.
2.0	05/11/'21 - NYW	ADD CABLE SIZE OPTION 4. ADD NOTE 6.

Scale: NTS	THIRD ANGLE	Unstated Tolerances: .X N/A, .XX N/A, .XXX N/A, ANGLES N/A	NAUTILUS IP67/68 Rated Cables	GRADCONN www.gradconn.com
Drawn: RJH				
App'd: XXX	Title CABLE ASSEMBLY			
Date: 5 NOV. '21	Revision: 2.0	Unit: mm		

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Type: Cable 138 RF
CABLE 138 RF
Drawing Number:
Sheet 1 of 1
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