COAXIAL CABLE ASSEMBLY | CUSTOMER PRODUCT SPECIFICATION SHEET

CAB411RF: MMCX R/A PLUG + S/S SMA FEMALE STRAIGHT BULKHEAD JACK W/O-RING RATED TO IP68/69K + RG178 CABLE

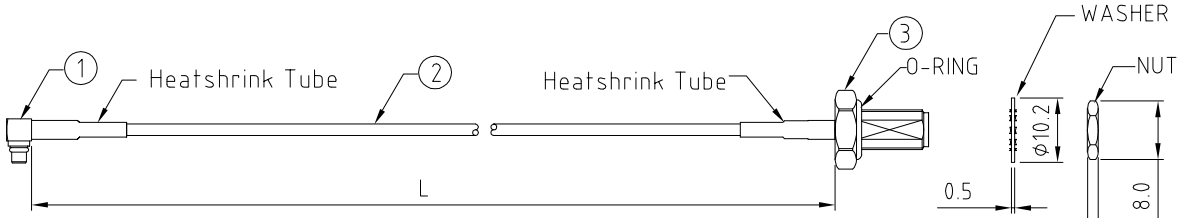
RoHS Compliant

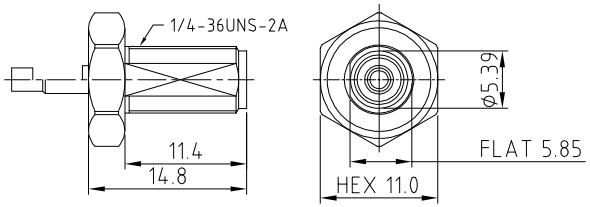
SPECIFICATIONS :
1. MMCX RIGHT ANGLE PLUG, GOLD PLATED, P/N: RFCT-MMCX003-M78.
2. COAXIAL CABLE, SEE P/N OPTIONS FOR DETAIL.
3. SMA STRAIGHT BULKHEAD JACK W/O-RING, W/SUS303 STAINLESS STEEL BODY, TESTED TO IP68/69K, P/N: RFCT-SMA061-F78 (WITH SILICON O-RING) OR RFCT-SMA061-F78-1 (WITH EPDM O-RING).

ENVIRONMENTAL:
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 50MM 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 TO +125°C
6. IMPEDANCE: 50 OHM
7. IF THE CONNECTOR IS USED IN A CORROSIVE ENVIRONMENT, WE RECOMMEND THE CONNECTOR FACE IS PROTECTED WITH A DUST CAP.

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 JACK DETAIL DRAWING

HOW TO ORDER

CAB411RF - XXXX - XX - X - 1 - X

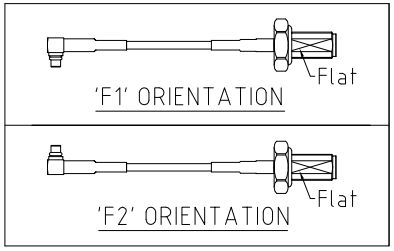
"L" LENGTH IN MM:
eg: 100MM = 0100
(MIN. 0050-MAX.0400
STANDARD = 0100, 0150, 0200)
Tolerance: 50mm: ±2mm.
51-200mm: ±5mm.
201-400mm: ±7mm.

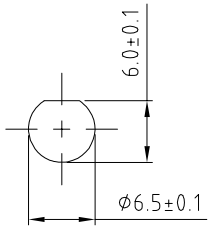
ORIENTATION OPTIONS:
BLANK = DOES NOT HAVE A FIXED ORIENTATION
F1 = MMCX CONNECTION DOWN (L=50-200MM)
F2 = MMCX CONNECTION UP (L=50-200MM)
(SEE NOTES 1, 2, 3 AND DIAGRAMS FOR MORE INFORMATION)

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

CABLE SIZE:
1 = RG178 CABLE, COLOR: BROWN.

O-RING MATERIAL OPTIONS:
S = SILICON, RED (STANDARD)
E= EPDM, BLACK





RECOMMENDED SMA MOUNTING HOLE

REV	DATE & DRN	
1.0	22/06/'20 - NYW	RELEASE
1.1	30/06/'20 - NYW	AMEND O-RING ORDERING CODES.
1.2	28/09/'20 - NYW	UPDATE P/N NUMBERING.
1.3	23/11/'20 - NYW	ADD IPX9K TESTING INFO.
1.4	27/04/'21 - NYW	ADD NOTE 7.

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: NYW				
App'd: XXX	Title CABLE ASSEMBLY			
Date: 27 APR. '21	Revision: 1.4	Unit: mm		

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Drawing Number: CAB411RF

Sheet 1 of 1

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