COAXIAL CABLE ASSEMBLY | CUSTOMER PRODUCT SPECIFICATION SHEET

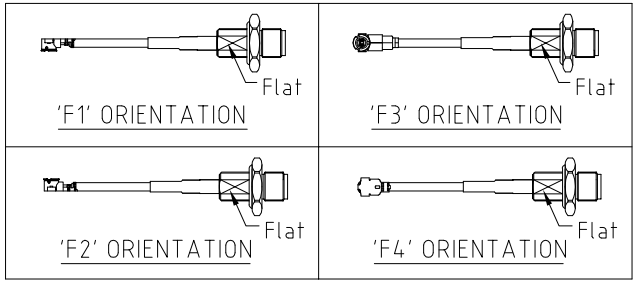
CABLE 162 RF: I-PEX MHF + FRONT MOUNT SMA S/T BULKHEAD JACK WITH O-RING RATED TO IP67/68 + MULTIPLE CABLE SIZES

RoHS Compliant

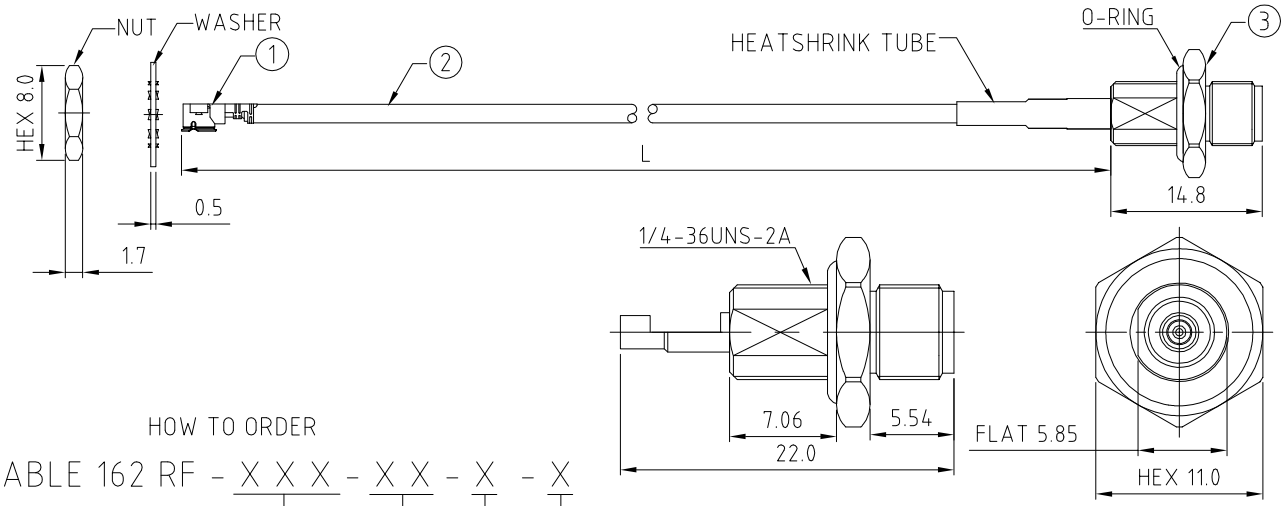
SPECIFICATIONS :
1. I-PEX MHF PLUG, P/N: FOR RG178 CABLE: 20278-112R-18. FOR ϕ1.13MM CABLE: 20278-112R-13, FOR ϕ1.37 CABLE: 20351-112R-37.
2. COAXIAL CABLE, SEE P/N OPTIONS.
3. FRONT MOUNT SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68, P/N: RFCT-SMA003-F78.

ENVIRONMENTAL:
A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA003-F78) TESTED 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.
iv. IPX8 WATERPROOF FOR 12 HOURS AT 5 METERS 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 GRADCONN 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.
7. 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.



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

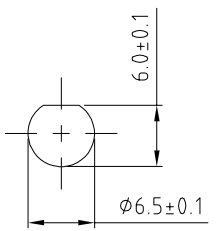
CABLE 162 RF - X X X - X X - X - X

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

CABLE SIZE OPTIONS:
1 = RG178 CABLE, COLOR: BROWN
2 = ϕ1.13MM CABLE, COLOR: GRAY
3 = ϕ1.37MM CABLE, COLOR: BLACK
4 = ϕ1.13MM LOW LOSS CABLE, COLOR: GRAY.
5 = ϕ1.13MM CABLE, COLOR: BLACK

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=25-200MM)
F2 = MHF CONNECTION UP (L=25-200MM)
F3 = MHF CONNECTION AND D FLAT SAME ORIENTATION (L=25-200MM)
F4 = MHF CONNECTION AND D FLAT OPPOSITE ORIENTATION (L=25-200MM)
(SEE NOTES 1, 2, 3 AND DIAGRAMS FOR MORE INFORMATION)



RECOMMENDED SMA MOUNTING HOLE

REV.	DATE & DRN	
1.0	26/11/'13 - NYW	RELEASE
1.1	12/05/'14 - NYW	ADD CABLE SIZE OPTION 2.
1.2	23/07/'15 - NYW	UPDATE SMA PART NUMBER.
1.3	30/10/'15 - RJH	ADD IP67/68 RATING INFO.
1.4	20/06/'16 - NYW	ADD 1.37 CABLE OPTION.
1.5	16/05/'17 - NYW	ADD 1.13 LL CABLE OPTION.
1.6	13/02/'19 - NYW	ADD F3 & F4 ORIENTATION.
1.7	24/05/'19 - NYW	ADD OPERATING TEMP.
1.8	17/08/'20 - NYW	ADD NOTES 6 & 7.
1.9	15/04/'21 - NYW	ADD CABLE SIZE OPTION 5.

Scale: NTS	THIRD ANGLE	Unstated Tolerances: .X N/A, .XX N/A, .XXX N/A, ANGLES N/A	Type: Cable 162 RF
Drawn: NYW			CABLE 162 RF
App'd: XXX	Title CABLE ASSEMBLY		Drawing Number:
Date: 15 APR. '21	Revision: 1.9	Unit: mm	Sheet 1 of 1

NAUTILUS IP67/68 Rated Cables

GRADCONN www.gradconn.com

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