



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

SPECIFICATIONS :

1. I-PEX MHF PLUG, P/N: FOR RG178 CABLE: 20278-112R-18. FOR  $\phi 1.13\text{MM}$  CABLE: 20278-112R-13, FOR  $\phi 1.37$  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.

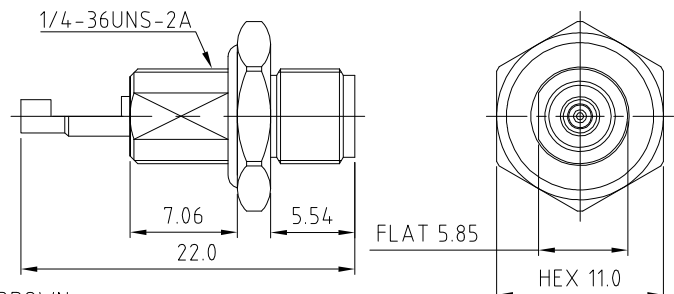
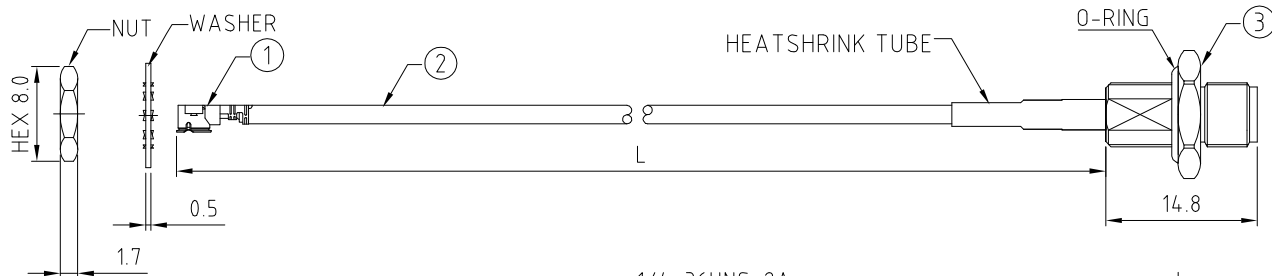
**USAGE PRECAUTIONS: CABLES USING 'MICRO' COAX ARE DELICATE:**  
 (i) HANDLE WITH CARE.  
 (ii) DO NOT TWIST; APPLY EXCESSIVE FORCES OR SHARP BENDS TO THE CABLE. DO NOT FORCEFULLY DEFORM WIRES.  
 (iii) CONSULT CONNECTOR MANUFACTURER'S DATASHEETS FOR DETAILED NOTES ON HANDLING INSTRUCTIONS.

ENVIRONMENTAL:

- A. BULKHEAD MOUNTED CONNECTOR (RFCT-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.



HOW TO ORDER

CABLE 162 RF - XXX - XX - X - X

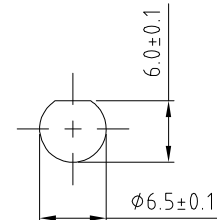
"L" LENGTH IN MM:  
 eg: 100MM = 100  
 (MIN. 025-MAX.400)  
 STANDARD = 100, 150, 200)  
 Tolerance: 50-200mm:  $\pm 5\text{mm}$ .  
 201-400mm:  $\pm 7\text{mm}$ .

CABLE SIZE OPTIONS:  
 1 = RG178 CABLE, COLOR: BROWN  
 2 =  $\phi 1.13\text{MM}$  CABLE, COLOR: GRAY  
 3 =  $\phi 1.37\text{MM}$  CABLE, COLOR: BLACK  
 4 =  $\phi 1.13\text{MM}$  LOW LOSS CABLE, COLOR: GRAY.

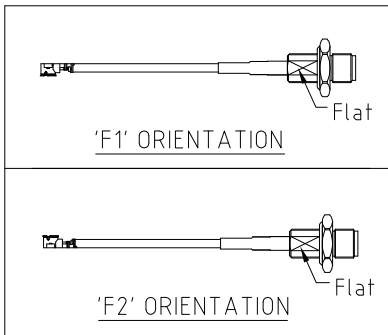
WASHER AND NUT OPTIONS:  
 BLANK = SEPARATELY PACKED (STANDARD)  
 A = ALL ASSEMBLED WITH CONNECTOR

ORIENTATION OPTIONS:  
 BLANK = DOES NOT HAVE A FIXED ORIENTATION  
 F1 = MHF CONNECTION DOWN (L=25-100MM)  
 F2 = MHF CONNECTION UP (L=25-100MM)  
 (SEE NOTES 1, 2, 3 AND DIAGRAMS FOR MORE INFORMATION)

SMA DETAIL DRAWING



RECOMMENDED SMA MOUNTING HOLE



10	26/11/13 - NYM RELEASE
11	12/05/14 - NYM ADD. CABLE SIZE OPTION 2.
12	23/07/15 - NYM UPDATE SMA PART NUMBER.
13	30/10/15 - PJH ADD. IP67/68 RATING INFO.
14	ADD. 1.37 CABLE OPTION.
15	16/05/17 - NYM ADD. 113 LL CABLE OPTION.

Scale:	NTS	THIRD ANGLE	Unstated .X .XX .XXX ANGLES	Tolerances: $\pm 0.2$ $\pm 0.1$ $\pm 0.05$ $\pm 5$
Drawn:	NYW			
App'd:	XXX	Title	CABLE ASSEMBLY	
Date:	16 MAY '17	Revision:	15	Unit: mm

**NAUTILUS**  
 IP67/68 Rated Cables

**GRADCONN**  
 www.gradconn.com

Type:	Cable 162 RF
	CABLE 162 RF
Drawing Number:	Sheet 1 of 1
	Drawing © E and O E