COAXIAL CABLE ASSEMBLY | CUSTOMER PRODUCT SPECIFICATION SHEET

CABLE 319 RF: I-PEX MHF I LK PLUG + SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68 + MULTIPLE CABLE SIZES

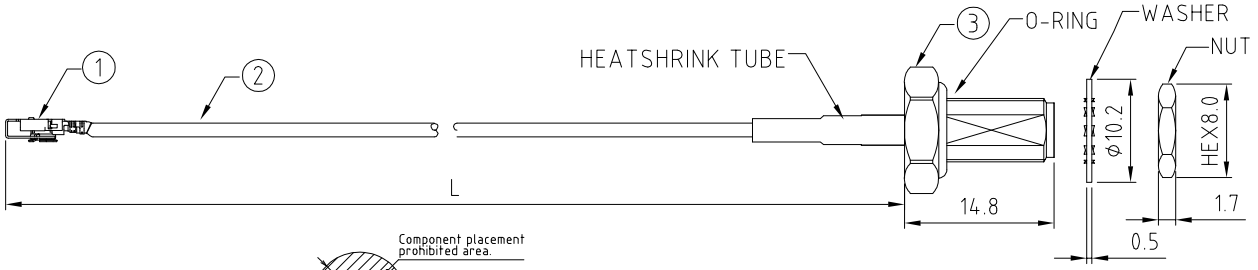
RoHS Compliant

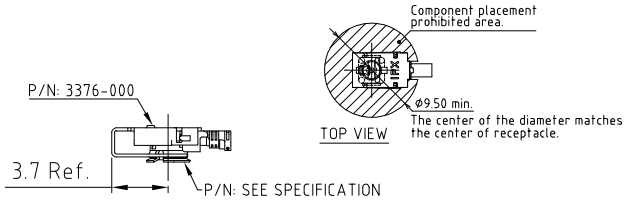
SPECIFICATIONS :
1. I-PEX MHF I LK PLUG, P/N:
   FOR ⌀1.37MM CABLE: 20670-001R-37 + 3376-000.
   FOR ⌀1.13MM CABLE: 20670-001R-13 + 3376-000.
   FOR RG178 CABLE: 20670-001R-18 + 3376-000.
2. COAXIAL CABLE, SEE P/N OPTIONS.
3. SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68, P/N: RFCT-SMA002-F78.

ENVIRONMENTAL:
A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA002-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.

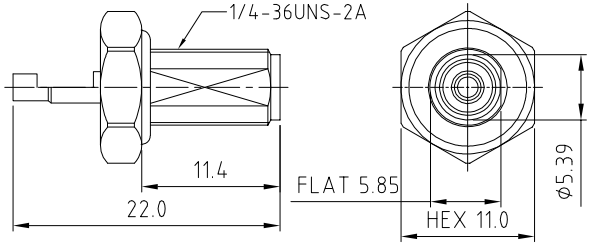
NOTES:
1. THE ORIENTATION OF CONNECTORS ON DRAWING IS FOR REFERENCE ONLY, IF THE ORDER IS LEFT BLANK THE CONNECTOR WILL NOT HAVE FIXED ORIENTATION.
2. FIXED ORIENTATION IS SUGGESTED FOR CABLE LENGTH 25MM TO 100MM. PLEASE SPECIFY THE FIXED ORIENTATIONS FROM THE ORDER CODE (F1, F2, ETC)
3. CONTACT GRAD CONN 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

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.

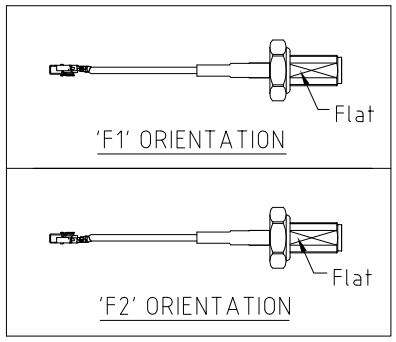




IPEX MHF I LK PLUG



SMA DETAIL DRAWING



HOW TO ORDER

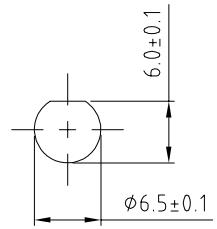
CABLE 319 RF - X X X - X X - X - X

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

CABLE SIZE:
1 = ⌀1.37MM CABLE, COLOR: BLACK (STANDARD)
2 = ⌀1.13MM CABLE, COLOR: GRAY
3 = RG178 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)
(SEE NOTES 1, 2, 3 AND DIAGRAMS FOR MORE INFORMATION)



RECOMMENDED SMA MOUNTING HOLE

REV.	DATE & DRN	
1.0	27/07/'18 - NYW	RELEASE
1.1	09/01/'19 - NYW	ADD 1.13MM CABLE OPTION.
1.2	22/05/'20 - NYW	ADD NOTES 5 & 6.
1.3	27/07/'20 - NYW	AMEND OPERATING TEMP.
1.4	29/09/'20 - NYW	ADD MHF LK PROHIBITED AREA
1.5	03/12/'20 - NYW	UPDATE MHF LK P/N'S.
1.6	06/10/'21 - NYW	ADD CABLE SIZE 3 OPTION

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				Type: Cable 319 RF
App'd: XXX	Title CABLE ASSEMBLY			CABLE 319 RF
Date: 6 OCT. '21	Revision: 1.6	Unit: mm		Drawing Number:
				Sheet 1 of 1

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