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COAXIAL CABLE ASSEMBLY | CUSTOMER PRODUCT SPECIFICATION SHEET

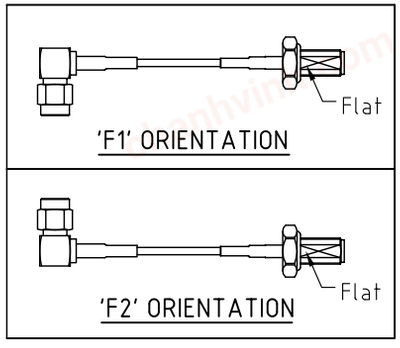
RoHS Compliant

CABLE 305 RF: RF CABLE ASSEMBLY, SMA R/A PLUG + SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68 + MULTIPLE CABLE SIZES

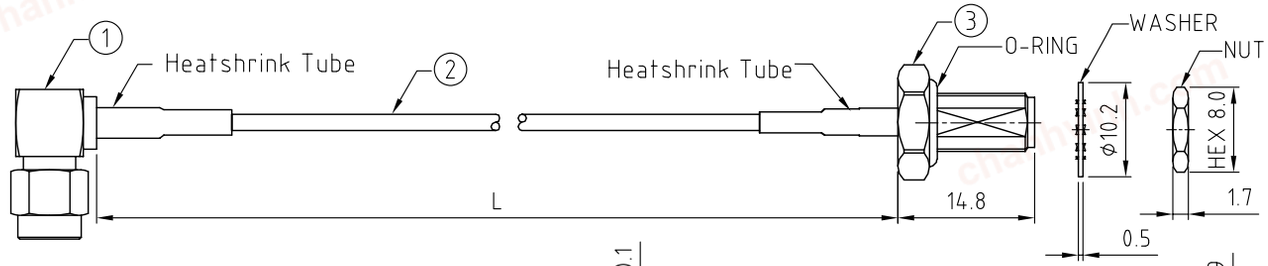
SPECIFICATIONS :
1. SMA RIGHT ANGLE PLUG, P/N FOR RG178 CABLE: RFCT-SMA025-M78, P/N FOR ⌀1.37MM CABLE: RFCT-SMA044-M37. P/N FOR ⌀1.13MM LL CABLE: RFCT-SMA070-M13.
2. COAXIAL CABLE, SEE P/N FOR DETAIL.
3. SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68, P/N: RFCT-SMA002-F78.

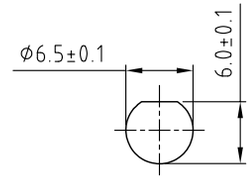
ENVIRONMENTAL:
A. BULKHEAD MOUNTED CONNECTOR (RFCT-SMA002-F78) TESTED TO THE FOLLOWING SPECIFICATION:
- i. IP6X - DUST TIGHT - NO PARTICLE INGRESS.
- ii. IPX7 WATERPROOF FOR 30 MINUTES UP TO 1 METER UNDERWATER.
- iii. IPX8 WATERPROOF FOR 48 HOURS AT 1 METER UNDERWATER.
- iv. IPX8 WATERPROOF FOR 12 HOURS AT 5 METERS UNDERWATER.
- v. PRESSURE TEST - 1 BAR FOR 10 SECONDS.

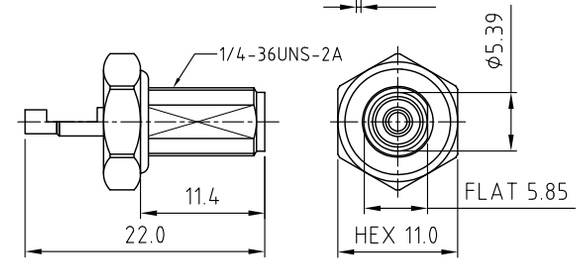
NOTES:
1. THE ORIENTATION OF CONNECTORS ON DRAWING IS FOR REFERENCE ONLY, IF THE ORDER IS LEFT BLANK THE CONNECTOR WILL NOT HAVE FIXED ORIENTATION.
2. FIXED ORIENTATION IS SUGGESTED FOR CABLE LENGTH 50MM TO 100MM. PLEASE SPECIFY THE FIXED ORIENTATIONS FROM THE ORDER CODE (F1, F2, ETC)
3. CONTACT GCT IF THE ORIENTATION YOU REQUIRE IS NOT SHOWN.
4. WORKING FREQUENCY RANGE: DC-3GHz.
5. OPERATING TEMPERATURE: -40°C ~ +125°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 JACK DETAIL DRAWING

HOW TO ORDER

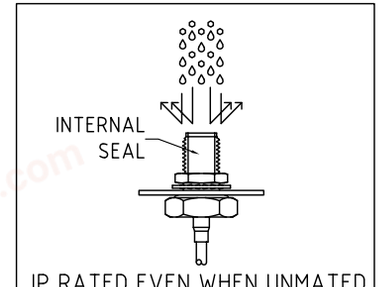
CABLE 305 RF - X X X X - X X - X - X

"L" LENGTH IN MM:
eg: 100MM = 0100
(MIN. 0050-MAX.2000
STANDARD = 0100, 0150, 0200)
Tolerance: <50mm: ±2mm.
51-200mm: ±5mm.
201-500mm: ±7mm.
>501mm: ±10mm.

CABLE SIZE OPTIONS:
1 = RG178 CABLE, COLOR: BROWN.
2 = ⌀1.37MM CABLE, COLOR: BLACK.
3 = ⌀1.13MM 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 = SMA PLUG CONNECTION DOWN (L=50-200MM)
F2 = SMA PLUG CONNECTION UP (L=50-200MM)
(SEE NOTES 1, 2, 3 AND DIAGRAMS FOR MORE INFORMATION)



REV.	DATE & DRN	
1.0	02/04/'18 - NYW	RELEASE
1.1	17/05/'18 - NYW	ADD CABLE OPTION 2.
1.2	31/07/'19 - NYW	ADD NOTES 5 & 6.
1.3	15/01/'20 - NYW	ADD CABLE SIZE 3 OPTION.
1.4	24/07/'20 - NYW	AMEND OPERATING TEMP.
1.5	10/03/'24 - CC	ADD IP RATING VIEW
1.6	16/02/'25 - KY	Add GCT logo.

Scale: NTS	THIRD ANGLE	Unstated Tolerances: .X N/A .XX N/A .XXX N/A ANGLES N/A	IP Rated RF Products	Type: Cable 305 RF
Drawn: KY				CABLE 305 RF
App'd: XXX	Title CABLE ASSEMBLY			Drawing Number:
Date: 16 FEB. '25	Revision: 1.6	Unit: mm		Sheet 1 of 1

GCT GradConn www.gct.co www.gradconn.com

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