

CABLE 161 RF: I-PEX MHF + SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68 + MULTIPLE CABLE SIZES

SPECIFICATIONS :

- I-PEX MHF PLUG, P/N: FOR RG178 CABLE: 20278-112R-18.
FOR $\phi 1.37\text{MM}$ CABLE: 20351-112R-37.
FOR $\phi 1.13\text{MM}$ CABLE: 20278-112R-13
FOR $\phi 1.32\text{DS}$ & 1.32MM CABLE: 20278-112R-32.
FOR $\phi 0.81\text{MM}$ CABLE: 20278-112R-08
- COAXIAL CABLE, SEE P/N OPTIONS.
- SMA STRAIGHT BULKHEAD JACK WITH O-RING RATED TO IP67/68,
P/N: RFCT-SMA002-F78.

ENVIRONMENTAL:

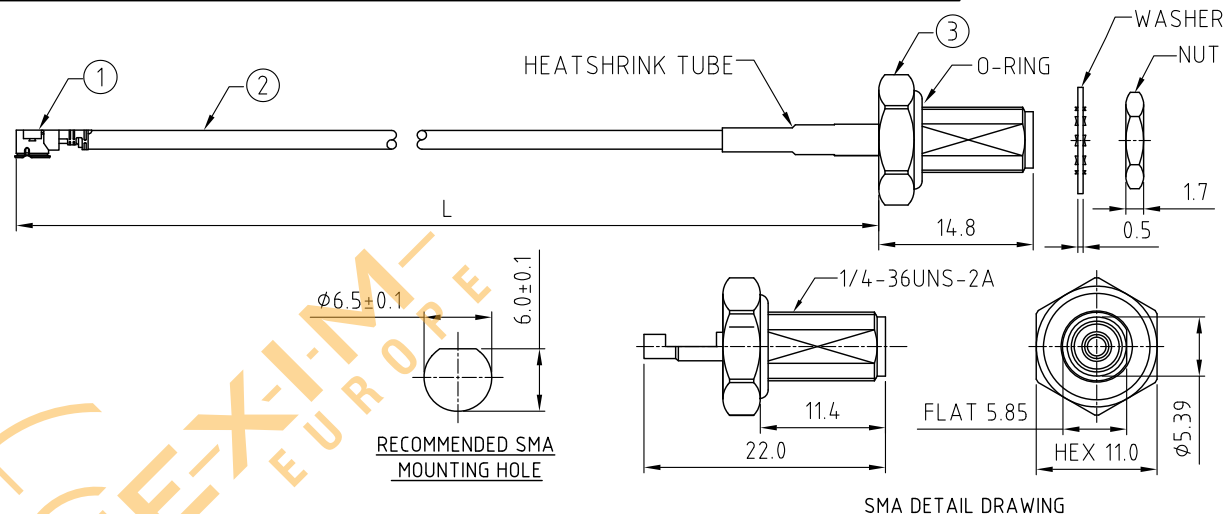
- BULKHEAD MOUNTED CONNECTOR (RFCT-SMA002-F78) TESTED TO THE FOLLOWING SPECIFICATION:
 - IP6X - DUST TIGHT - NO PARTICLE INGRESS.
 - IPX7 WATERPROOF FOR 30 MINUTES UP TO 1 METER UNDERWATER.
 - IPX8 WATERPROOF FOR 48 HOURS AT 1 METER UNDERWATER.
 - IPX8 WATERPROOF FOR 12 HOURS AT 5 METERS UNDERWATER.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

NOTES:

- THE ORIENTATION OF CONNECTORS ON DRAWING IS FOR REFERENCE ONLY, IF THE ORDER IS LEFT BLANK THE CONNECTOR WILL NOT HAVE FIXED ORIENTATION.
- FIXED ORIENTATION IS SUGGESTED FOR CABLE LENGTH 25MM TO 100MM. PLEASE SPECIFY THE FIXED ORIENTATIONS FROM THE ORDER CODE (F1, F2, ETC)
- CONTACT GRADCONN IF THE ORIENTATION YOU REQUIRE IS NOT SHOWN.
- WORKING FREQUENCY RANGE: DC-3GHz.
- OPERATING TEMPERATURE: -40°C ~ $+85^{\circ}\text{C}$.
- IMPEDANCE: 50 Ohm.

USAGE PRECAUTIONS: CABLES USING 'MICRO' COAX ARE DELICATE:

- HANDLE WITH CARE.
- DO NOT TWIST; APPLY EXCESSIVE FORCES OR SHARP BENDS TO THE CABLE. DO NOT FORCEFULLY DEFORM WIRES.
- CONSULT CONNECTOR MANUFACTURER'S DATASHEETS FOR DETAILED NOTES ON HANDLING INSTRUCTIONS.



SMA DETAIL DRAWING

HOW TO ORDER

CABLE 161 RF - X X 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: $\pm 5\text{mm}$.
201-400mm: $\pm 7\text{mm}$.

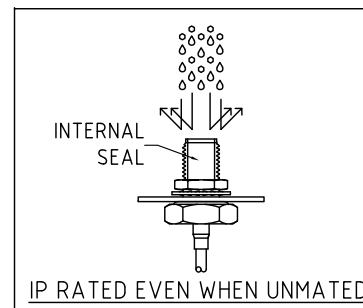
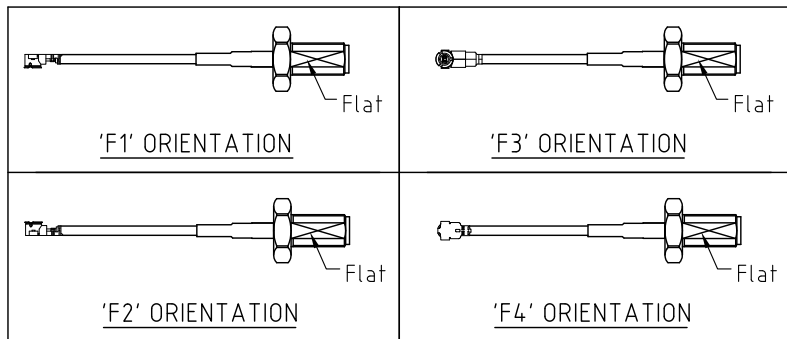
HEATSHRINK TUBE OPTIONS:
BLANK = WITH H/S TUBE (STANDARD)
NT = WITHOUT H/S TUBE

CABLE SIZE OPTIONS:
1 = RG178 CABLE, COLOR: BROWN
2 = $\phi 1.37\text{MM}$ CABLE, COLOR: BLACK
3 = $\phi 1.13\text{MM}$ LOW LOSS CABLE, COLOR: GREY
4 = $\phi 1.13\text{MM}$ CABLE, COLOR: GREY
5 = $\phi 1.32\text{DS}$ CABLE, COLOR: GREY
6 = $\phi 1.13\text{MM}$ CABLE, COLOR: BLACK
7 = $\phi 1.32\text{MM}$ CABLE, COLOR: GREY
8 = $\phi 0.81\text{MM}$ CABLE, COLOR: GREY

O-RING, WASHER AND NUT OPTIONS:
BLANK = O-RING ASSEMBLED, WASHER AND NUT
SEPARATELY PACKED (STANDARD)
A = ALL ASSEMBLED WITH CONNECTOR
D = ALL PACKED SEPARATELY

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)



Type: Cable 161 RF

CABLE 161 RF

Drawing Number:

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REV.	DATE & DRN
10	26/07/13 - NYW RELEASE
11	28/07/14 - NYW
12	20/07/15 - NYW
13	20/07/15 - NYW
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100	20/07/15 - NYW

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Scale: NTS	THIRD ANGLE	Unstated .X .XX .XXX ANGLES	Tolerances: N/A N/A N/A N/A
Drawn: CC			
App'd: XXX	Title CABLE ASSEMBLY		
Date: 25 FEB. '24	Revision: 2.8	Unit: mm	



IP Rated RF Products

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Type: Cable 161 RF

CABLE 161 RF

Drawing Number:

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All operating parameters, including typical parameters, must be validated for each customer application by the customer’s technical experts.

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This may not be the latest version of the datasheet. Please check with us if a later version is available.



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