

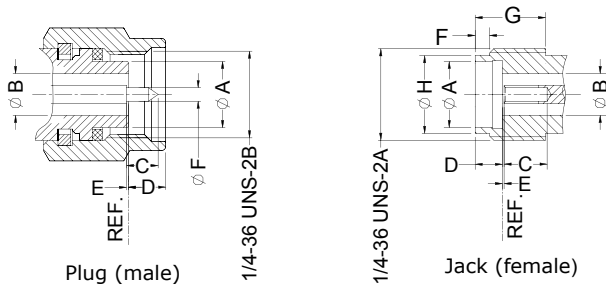
2.92mm Connectors Series

Description

The 2.92mm connectors are a precision connector that can work up to 40 GHz. They are intermateable with SMA and 3.5mm series connectors. Although similar to the SMA interface, a smaller internal body diameter (2.92mm) and air dielectric provide a higher cutoff frequency. The Anoisn 2.92mm connectors use high-performance support beads, which allows an operating temperature range of -55 °C to +135 °C. A shortened center contact increases the mechanical ruggedness of the interface and insures a non-destructive mating process. High mechanical stability, excellent repeatability and low VSWR make the 2.92mm connector suitable for a wide range of applications.



Interface Dimensions



Interface Dimensions (mm/inches)

	Plug		Jack	
	min.	max.	min.	max.
A	4.53/.178	4.57/.180	4.60/.181	4.64/.183
B	2.89/.114	2.95/.116	2.89/.114	2.95/.116
C	1.55/.061	1.65/.065	2.80/.110	-
D	-	3.28/.129	1.88/.074	1.98/.078
E	0.00/0.00	0.13/.005	0.00/0.00	0.13/.005
F	0.91/.036	0.94/.037	0.70/.028	0.90/.036
G	-	-	4.40/.173	-
H	-	-	5.30/.208	5.40/.213

Interface dimensions conform to the Standard:

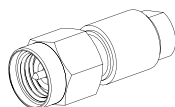
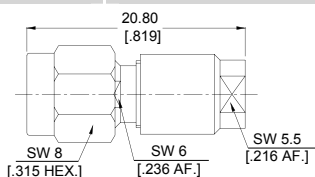
USA: MIL-STD-348

IP rating (interface, mated) IP68

Cable Connectors

Straight cables plug (male)

Part No.	Cable Group (Example)	Finish	Remarks
ANO 2911-2001	.118/50(Micro-Coax UFA147A Cable)	Gold/Passivated	Solder



Characteristics

ELECTRICAL DATA	REQUIREMENTS
Nominal Impedance	50 Ω
Frequency Range	DC to 40 GHz
Dielectric Withstanding Voltage	750 V rms 50 Hz, sea level
Working Voltage	≤250 V rms 50 Hz, sea level
VSWR (straight styles)	≤1.3(DC to 40 GHz)
Insulation Resistance	5×10 ³ MΩ min.
Contact Resistance	
- Center contact	3.0 MΩ max.
- Outer contact	2.0 MΩ max.

MECHANICAL DATA	REQUIREMENTS
Coupling Nut Torque	
-normally moment	0.79~1.13 Nm / 6.97~9.97 in.lbs
-moment resistance	1.69 Nm / 14.91 in.lbs
Contact Captivation	≥22 N/4.9 lbs
Durability (Mating Cycles)	500 min.

ENVIRONMENTAL DATA	REQUIREMENTS
Temperature Range	-55°C to +135°C
Thermal Shock	MIL-STD-202, Method 107, Condition B
Vibration	MIL-STD-202, Method 204, Condition D

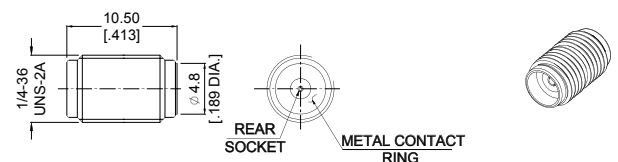
MATERIAL DATA		
CONNECTOR PART	MATERIAL	PLATING
Bodies	stainless steel / copper alloy	passivated / gold
Center Contacts	copper-beryllium alloy	gold
Support Beads	MPP0	-

Note: The above characteristics are typical but may not apply to all connectors.

Launchers

"Sparkplug" Launchers

Part No.	Finish	Mounting Hole
ANO 2911-5006	Gold	MH 3 (See Anoisn web site [DOWNLOADS])

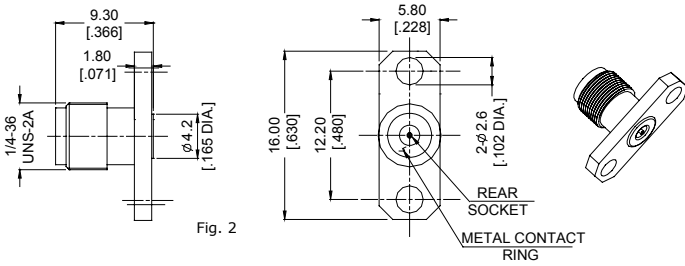
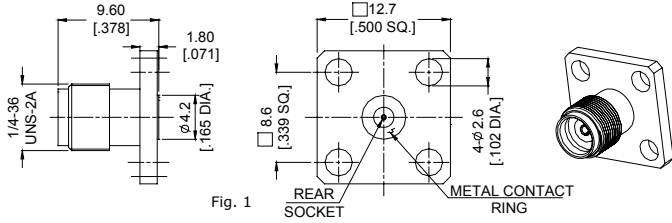


Custom Configurations Available On Request

Launchers

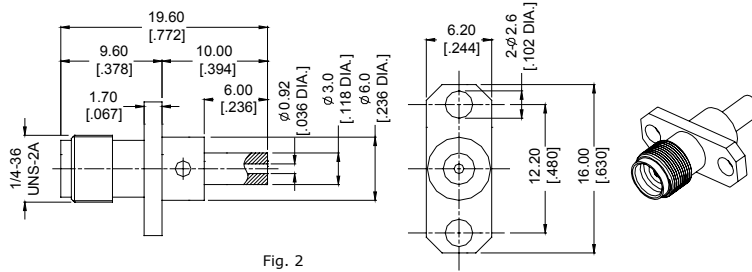
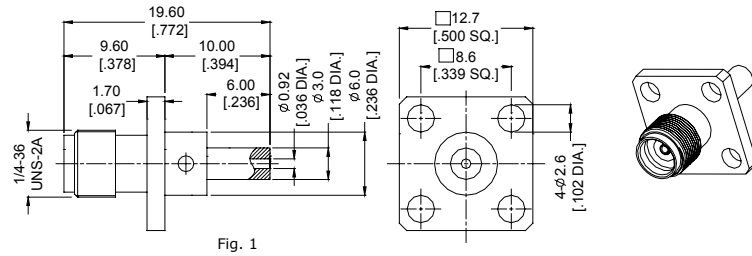
Panel launchers, jack (female)

Part No.	Finish	Mounting Hole	Fig .
ANO 2912-3008	Gold	MH 25 (See Anoisn web site [DOWNLOADS])	1
ANO 2912-3007	Gold	MH 26 (See Anoisn web site [DOWNLOADS])	2



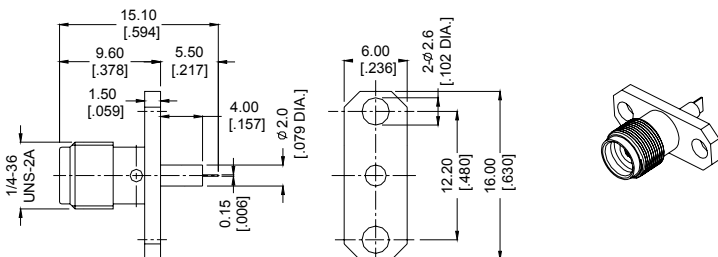
Panel launchers, jack (female)

Part No.	Finish	Mounting Hole	Fig
ANO 2912-3002	Gold	MH 25 (See Anoisn web site [DOWNLOADS])	1
ANO 2912-3004	Passivated	MH 26 (See Anoisn web site [DOWNLOADS])	2



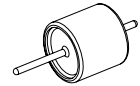
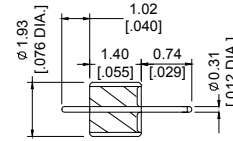
Tab contact, jack (female)

Part No.	Finish	Mounting Hole
ANO 2912-3003	Gold	MH 26 (See Anoisn web site [DOWNLOADS])



Hermetic Seal

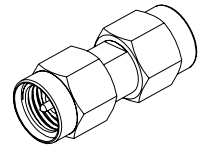
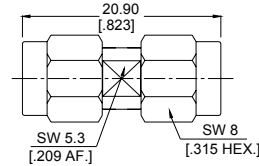
Part No.	Finish
HS-5	Gold



Adapter Connectors

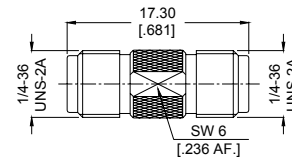
Adapter plug/plug (male/male)

Part No.	Finish	Type / Type
ANO 291-291-1063	Gold	2.92mm (plug) / 2.92mm (plug)



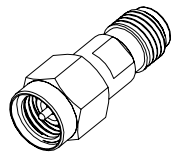
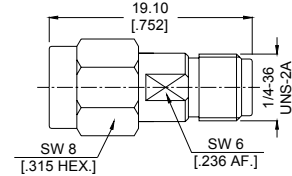
Adapter jack/jack (female/female)

Part No.	Finish	Type / Type
ANO 292-292-1061	Gold	2.92mm (jack) / 2.92mm (jack)



Adapter plug/jack (male/female)

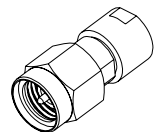
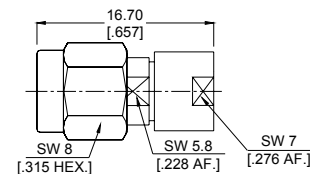
Part No.	Finish	Type / Type
ANO 291-292-1062	Gold	2.92mm (jack) / 2.92mm (plug)



RF Terminations

Plug (male)

Part No.	Finish	Average Power	Peak Power	Frequency
ANO 291-702	Gold	0.5W	250W	DC-40 GHz



Jack (female)

Part No.	Finish	Average Power	Peak Power	Frequency
ANO 292-701	Gold	0.5W	250W	DC-40 GHz

