

# 3.5mm

## CONNECTOR SERIES

### INTERFACE MATING DIMENSIONS SPECIFICATIONS

#### CONTENT:

Plug To Plug Adaptor

Plug To Jack Adaptor

Jack To Jack Adaptor



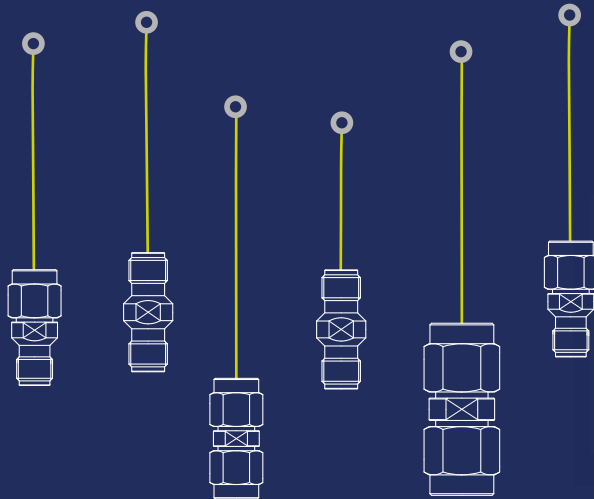
**Bridging Gaps**



# 3.5mm series

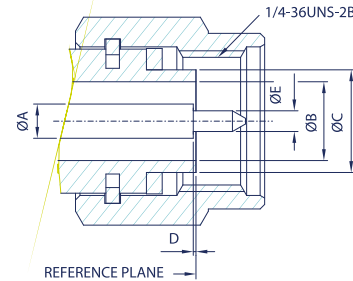
The 3.5mm series was designed with highly rugged physical interfaces in mind that would mate with SMA dimensions, allowing thousands of repeatable connections. The performance is up to 34 GHz.

The outer contact ID is 3.5 mm, and OD is 4.55 mm. The 3.5mm series is compatible with 2.92mm and SMA series. When mated with SMA and other precision SMA type connectors the performance is limited by the connector with lesser performance.

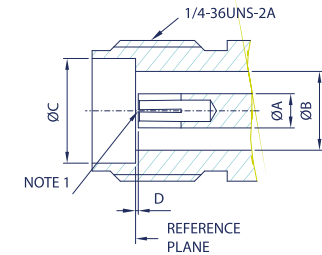


## INTERFACE MATING DIMENSIONS

### PLUG /



### JACK /



PLUG		
Letter	Millimeters	
	Minimum	Maximum
A	1.51	1.53
B	3.49	3.51
C	4.57	4.59
D	0.00	0.08
E	0.91	0.93

JACK		
Letter	Millimeters	
	Minimum	Maximum
A	1.51	1.53
B	3.49	3.51
C	4.63	4.65
D	0.00	0.08

**NOTE 1:** I.D. TO MEET VSWR AND CONTACT RESISTANCE WHEN MATED WITH 0.91 / 0.93 MM DIA. PIN.

## SPECIFICATIONS

### Electrical /

Impedance	50 Ohm	
Frequency Range	0 - 34 GHz	
Insertion Loss	$0.03 \times \sqrt{F(\text{GHz})}$ dB Max.	
VSWR	1.3 Max.	
Contact Resistance	Center Contact	3 Milliohms Max.
	Outer Contact	2 Milliohms Max.

### Material /

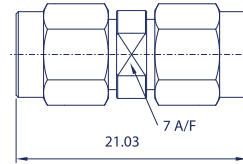
Parts Name	Material	Finish
Body, Metal Parts	Stainless Steel per QQ-S-764	Passivated
Center Contacts	Male: Brass per QQ-B-626	Gold 50 micro-inches
	Female: Beryllium copper per QQ-C-530	Gold 50 micro-inches
Insulators	Rexolite	None

**NOTE:** Other Material / Finish is Available on Request.

### Mechanical & Environmental /

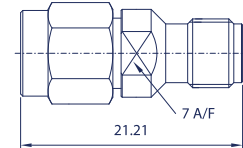
Coupling Torque Recommended	0.8 Nm...1.1 Nm
Coupling Proof Torque	1.7 Nm
Durability (Mating)	500 cycles Min.
Temperature Range	-40°C to 85°C

# 3.5mm series



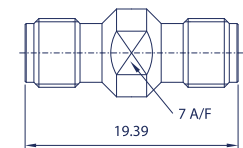
PLUG TO PLUG ADAPTOR

Model No.	Cable Group	Impedance
FL35B8-NS5	N/A	50



PLUG TO JACK ADAPTOR

Model No.	Cable Group	Impedance
FL35E8-NS5	N/A	50



JACK TO JACK ADAPTOR

Model No.	Cable Group	Impedance
FL35G8-NS5	N/A	50

