

# SERIES N 75 $\Omega$ COAXIAL CONNECTORS

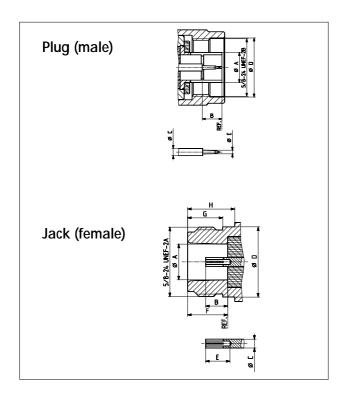
### **Description**

SUHNER N connectors are available with 50  $\Omega$  and 75  $\Omega$  impedance. The SUHNER N 75  $\Omega$  connectors are suitable for applications up to 1.5 GHz. The screw-type coupling mechanism provides a sturdy and reliable connection. SUHNER N 75  $\Omega$  connectors are available in many different patterns.

#### Compatibility

Center conductors of N 75  $\Omega$  connectors have a smaller diameter than those of the 50  $\Omega$  version. Therefore 50  $\Omega$  and 75  $\Omega$  connectors must not be mated with each other.

#### **Interface Dimensions**



#### Interface Dimensions in mm / inches

	Plug		Jack	
	min.	max.	min.	max.
Α		8.38/. <i>330</i>	8.03/. <i>316</i>	8.13/. <i>320</i>
В	5.33/. <i>210</i>	5.84/. <i>230</i>	4.75/. <i>187</i>	5.26/. <i>207</i>
С		2.00/. <i>079</i>		2.00/. <i>079</i>
D	16.00/. <i>630</i>			15.93/. <i>627</i>
Е	1.00/. <i>039</i>	1.05/. <i>041</i>	5.33/. <i>210</i>	
F			9.04/. <i>356</i>	9.19/. <i>362</i>
G			6.76/. <i>266</i>	
Н			10.72/. <i>422</i>	

## **Technical Data**

ELECTRICAL DATA	REQUIREMENTS
Impedance	75 Ω
Frequency range	DC 1.5 GHz
RF-leakage (measured at 1 GHz)	≥ 90 dB
Dielectric withstanding voltage (at sea level)	2.5 kV rms, 50 Hz
Working voltage (at sea level)	≤ 1.0 kV rms, 50 Hz
Insulation resistance	$\geq 5 \cdot 10^3 \mathrm{M}\Omega$
Contact resistance - centre contact - outer contact	$\leq 1.0 \text{ m}\Omega$ $\leq 1.0 \text{ m}\Omega$

MECHANICAL DATA	REQUIREMENTS
Coupling nut torque - recommended - proof torque	0.68 Nm 1.13 Nm / 6.0 10.0 in. lbs 1.70 Nm / 15.0 in. lbs
Coupling nut retention force	≥ 450 N / 101.2 lbs
Contact captivation	≥ 28 N / 6.3 lbs
Cable retention force	on request
Durability (matings)	≥ 500

ENVIRONMENTAL DATA	TEST CONDITIONS
Temperature range	– 65°C + 165°C / – <i>85°F</i> + <i>329°F</i>
Climatic category	IEC → 55 / 155 / 21
Thermal shock	MIL-STD-202, Method 107, Condition B
Moisture resistance	MIL-STD-202, Method 106
Corrosion	Saltspray test acc. to MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition I

MATERIAL DATA						
CONNECTOR PART	STANDARDS	MATERIAL	PLATING			
Bodies Pin contact	QQ-B-626	brass	SUCOPLATE® gold			
Outer contact, slotted		spring bronze	SUCOPLATE®			
Female contacts	QQ-C-530	beryllium-copper, hardened	gold			
Crimp ferrules	SUHNER® specification	copper	SUCOPLATE®			
Insulators, standard version		PTFE or PFA				
Gaskets		silicone rubber				

Some connectors may have a specification that differs from the above mentioned data.