



SERIES N 75 Ω COAXIAL CONNECTORS

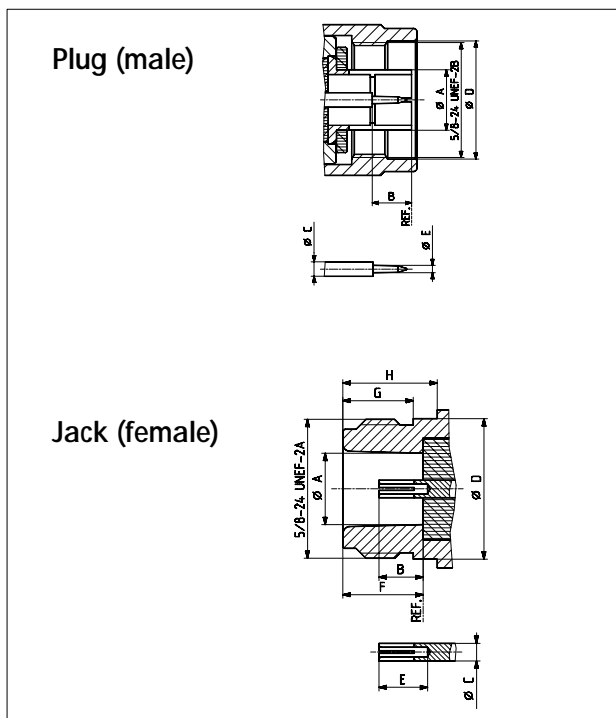
Description

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

Compatibility

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

Interface Dimensions



Interface Dimensions in mm / inches

	Plug		Jack	
	min.	max.	min.	max.
A	...	8.38 / .330	8.03 / .316	8.13 / .320
B	5.33 / .210	5.84 / .230	4.75 / .187	5.26 / .207
C	...	2.00 / .079	...	2.00 / .079
D	16.00 / .630	...	...	15.93 / .627
E	1.00 / .039	1.05 / .041	5.33 / .210	...
F	...	...	9.04 / .356	9.19 / .362
G	...	...	6.76 / .266	...
H	...	...	10.72 / .422	...

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	$\geq 5 \cdot 10^3$ M Ω
Contact resistance - centre contact - outer contact	≤ 1.0 m Ω ≤ 1.0 m Ω

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 / - 85°F ... + 329°F
Climatic category	IEC \rightarrow 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.