



SERIES BNC 50 Ω COAXIAL MINIATURE CONNECTORS

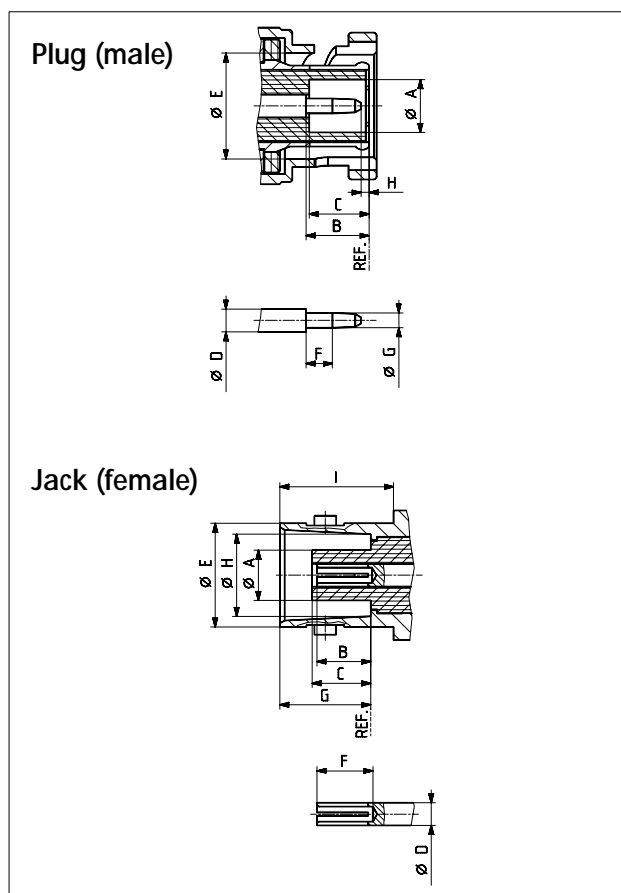
Description

SUHNER BNC is still one of the most popular connector series, featuring a two stud bayonet coupling mechanism, which is particularly useful for frequently coupled and uncoupled RF connections with frequencies up to 4 GHz.

Compatibility

50 Ω BNC connectors and 75 Ω BNC connectors are intermateable without any restrictions.

Interface Dimensions



Interface Dimensions in mm / inches

	Plug		Jack	
	min.	max.	min.	max.
A	4.83 / .190	---	---	4.72 / .186
B	5.33 / .210	5.84 / .230	4.72 / .186	5.23 / .206
C	5.28 / .208	5.79 / .228	4.78 / .188	5.28 / .208
D	2.06 / .081	2.21 / .087	2.06 / .081	2.21 / .087
E	9.78 / .385	9.91 / .390	9.60 / .378	9.70 / .382
F	1.98 / .078	---	4.95 / .195	---
G	1.32 / .052	1.37 / .054	8.31 / .327	8.51 / .335
H	0.08 / .003	---	8.10 / .319	8.15 / .321
I	---	---	10.52 / .414	---

Interface dimensions conformable to the Standards:

International: IEC 169-8
 Europe: CECC 22120
 USA: MIL-C- 39012,
 BNC Interface MIL-STD-348A/301
 Great Britain: BS 9210 N 004

Technical Data

ELECTRICAL DATA	REQUIREMENTS
Impedance	50 Ω
Frequency range (for connector interface)	DC ... 4 GHz
RF-leakage (between 2 ÷ 3 GHz)	≥ 55 dB
Dielectric withstanding voltage (at sea level)	1.5 kV rms, 50 Hz (depending on cable)
Working voltage (at sea level)	≤ 500 V rms, 50 Hz (depending on cable)
Insulation resistance	$\geq 5 \cdot 10^3$ M Ω
Contact resistance - centre contact - outer contact	≤ 1.5 m Ω ≤ 1 m Ω

MECHANICAL DATA	REQUIREMENTS
Coupling nut torque	7 Ncm ... 28 Ncm / 0.6 in. lbs ... 2.5 in. lbs
Coupling nut retention force	≥ 450 N / 101.2 lbs
Contact captivation	≥ 27 N / 6.1 lbs
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 G

MATERIAL DATA			
CONNECTOR PART	STANDARDS	MATERIAL	PLATING
Bodies Pin contact	QQ-B-626	brass	SUCOPLATE® gold
Socket contact	QQ-C-530	beryllium-copper, hardened copper alloy	gold
Crimp ferrules	SUHNER® specification QQ-B-626	copper brass	SUCOPLATE®
Insulators		PTFE or PFA	
Gaskets		silicone rubber	

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