



SERIES BNO TWINAXIAL MINIATURE CONNECTORS

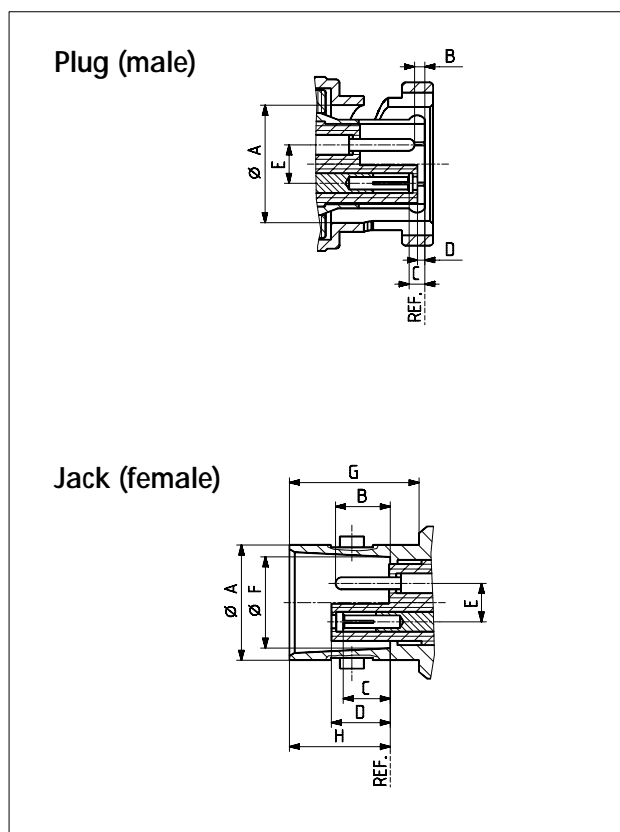
Description

SUHNER BNO twin connectors are two pin bayonet coupled connectors for use with balanced twin-conductor cables with 75Ω to 130Ω impedance. They have polarized contacts and are not interchangeable with BNC.

The SUHNER BNO twin connectors are suitable for applications up to 200 MHz.

Interface Dimensions

Interface Dimensions in mm / inches



	Plug		Jack	
	min.	max.	min.	max.
A	9.78/.385	9.91/.390	9.60/.378	9.70/.382
B	0.89/.035	1.65/.065	4.34/.171	5.08/.200
C	0.81/.032	1.80/.071	3.96/.156	5.08/.200
D	0.71/.028	1.07/.042	4.78/.188	5.23/.206
E	3.14/.124	3.26/.128	3.14/.124	3.26/.128
F	---	---	8.10/.319	8.15/.321
G	---	---	10.52/.414	---
H	---	---	8.36/.329	8.46/.333

Interface dimensions conformable to the Standards:

International: IEC 169-22

Technical Data

ELECTRICAL DATA	REQUIREMENTS
Impedance	—
Frequency range	DC ... 200 MHz
Dielectric withstanding voltage (at sea level)	1.5 kV rms, 50 Hz, between any two contacts
Insulation resistance	$\geq 10^4 \text{ M}\Omega$
Contact resistance	
- centre contact	$\leq 2 \text{ m}\Omega$
- outer contact	$\leq 2 \text{ m}\Omega$

MECHANICAL DATA	REQUIREMENTS
Coupling nut torque	7 Ncm ... 28 Ncm / 0.6 in. lbs ... 2.5 in. lbs
Coupling nut retention force	$\geq 450 \text{ N}$ / 101.2 lbs
Durability (matings)	≥ 500

ENVIRONMENTAL DATA	TEST CONDITIONS
Temperature range	$-50^\circ\text{C} \dots +125^\circ\text{C}$ / $-58^\circ\text{F} \dots +257^\circ\text{F}$
Climatic category	IEC \rightarrow 50/125/21
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
Connector bodies	QQ-B-626	brass	SUCOPLATE® gold
Pin contact	QQ-C-530	beryllium-copper, hardened	gold
Socket contact	SUHNER® specification	copper	SUCOPLATE®
Crimp ferrules		ETFE (Tefzel)	
Insulators		silicone rubber	
Gaskets			

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