



SERIES SMC SUBMINIATURE CONNECTORS

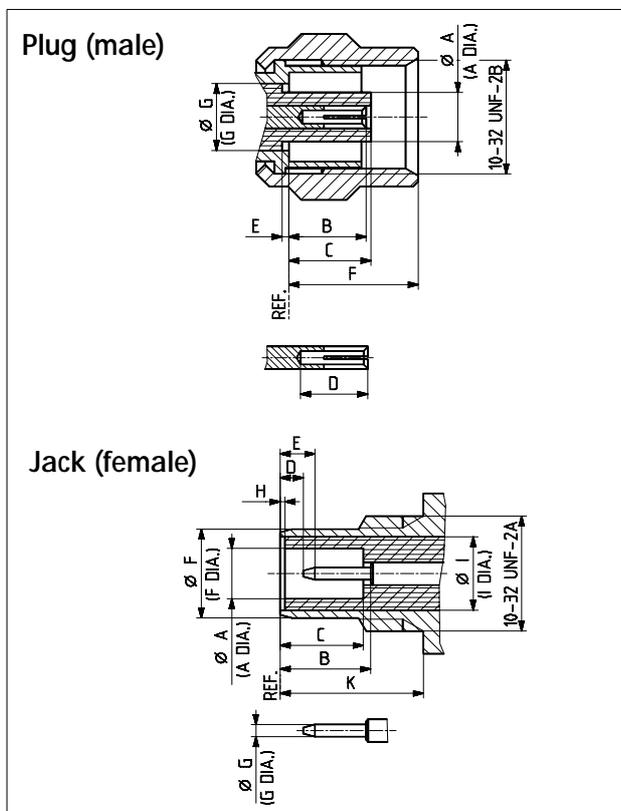
Description

The SUHNER SMC subminiature connector series is based on the same design as the SMB and SMS series. But due to its screw-on coupling mechanism, the SUHNER SMC subminiature connectors are suitable for applications up to 10 GHz.

Coupling mechanism:

The SMC screw-on mechanism permits a vibration-proof connection suitable for semi-permanent connections and for use in mobile equipment with low VSWR requirements.

Interface Dimensions



Interface Dimensions in mm / inches

	Plug		Jack	
	min.	max.	min.	max.
A	...	2.60 / .081	2.08 / .082	...
B	2.85 / .112	3.40 / .134	3.40 / .134	...
C	...	3.40 / .134	3.40 / .134	...
D	2.79 / .110	...	0.61 / .024	...
E	0.00 / .000	...	...	2.13 / .084
F	...	5.92 / .233	...	3.71 / .146
G	3.05 / .120 nom.		0.48 / .019	0.53 / .021
H	...	...	0.00 / .000	...
I	...	...	3.05 / .120 nom.	
K	...	...	5.94 / .234	...

Interface dimensions conformable to the Standards:

- International: IEC 169-9
- Europe: CECC 22140
- USA: MIL-C-39012 SMC
Interface MIL-STD-348A/312
- Great Britain: BS 9210 N 0009 SMC
- France: NFC 93561 series KMV
- Germany: VG 95286

Technical Data

ELECTRICAL DATA	REQUIREMENTS
Impedance	50 Ω
Frequency range	DC ... 10 GHz
RF-leakage (measured at 1 GHz)	≥ 90 dB
Dielectric withstanding voltage (at sea level)	750 V rms, 50 Hz (depending on cable)
Working voltage (at sea level) - unmated	≤ 250 V rms, 50 Hz (depending on cable)
Working voltage (at sea level) - unmated	≤ 350 V DC (depending on cable)
Insulation resistance	$\geq 10^4$ M Ω
Contact resistance - centre contact - outer contact	≤ 5 m Ω ≤ 2.5 m Ω

MECHANICAL DATA	REQUIREMENTS
Coupling nut torque - recommended - proof torque	25 Ncm ... 35 Ncm / 2.2 in. lbs ... 3.1 in. lbs 71 Ncm / 6.2 in. lbs
Coupling nut retention force	≥ 150 N / 33.72 lbs
Contact captivation	≥ 10 N / 2.25 lbs
Durability (matings)	≥ 500

ENVIRONMENTAL DATA	TEST CONDITIONS
Temperature range	- 65° C ... + 165° C / - 85° F ... + 329° F
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 D

MATERIAL DATA			
CONNECTOR PART	STANDARDS	MATERIAL	PLATING
Bodies, pin contact	QQ-B-626	brass	gold
Socket contact	QQ-C-530	beryllium-copper, hardened	gold
Crimp ferrule	SUHNER® specification QQ-B-626	copper brass	gold
Springs	QQ-C-530	beryllium-copper, hardened	gold
Insulators		PTFE or PFA	

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