SERIES SMC
SUBMINIATURE CONNECTORS

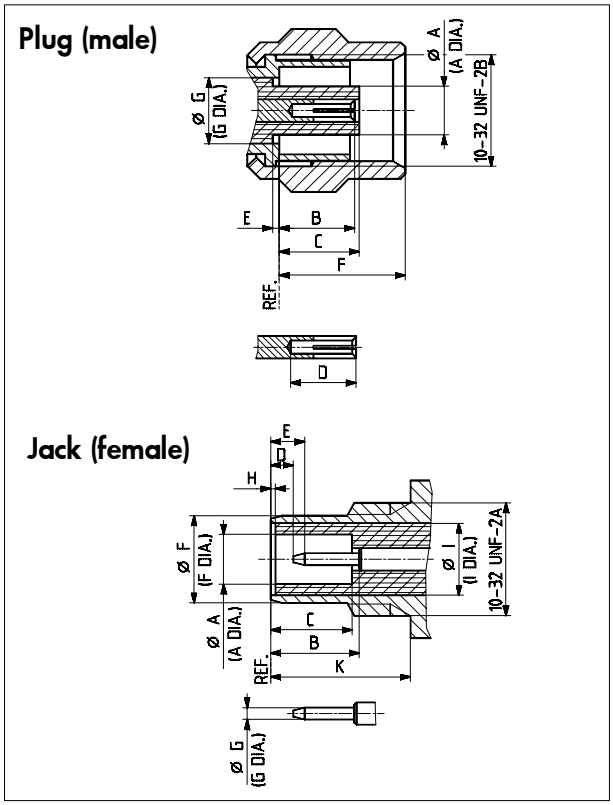
DESCRIPTION

The HUBER+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 HUBER+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 (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 60169-9**
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	≥ 10^4 MΩ
Contact resistance - centre contact - outer contact	 ≤ 5 mΩ ≤ 2.5 mΩ

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	HUBER+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.

The products are designed and guaranteed to pass the above mentioned test procedures. Any additional or different requirement arising from specific applications or environmental conditions which is not covered by these test procedures is subject to request.