

## TECHNICAL DATA

ELECTRICAL DATA	REQUIREMENTS
Impedance	50 $\Omega$
Frequency range	DC to 6 GHz (optimized)                      DC to 11 GHz (working range)
Return loss (typical)	DC – 3 GHz $\geq$ 32 dB; 3 to 6 GHz $\geq$ 25 dB; 6 to 11 GHz $\geq$ 20 dB
Intermodulation	better –155 dBc (2 x 43 dBm carrier)
RF-Leakage	100 MHz to 3 GHz $\geq$ –90 dB
Dielectric withstanding voltage (at sea level, in V rms, 50 Hz)	2500
Working voltage (at sea level, in V rms, 50 Hz)	$\leq$ 1000
Insulation resistance	$\geq$ 5 · 10 <sup>3</sup> M $\Omega$
Contact resistance – centre contact – outer contact	$\leq$ 1.5 m $\Omega$ $\leq$ 1.5 m $\Omega$

MECHANICAL DATA	REQUIREMENTS
Engagement force (typical)	30 N
Disengagement force (typical)	30 N
Retention force for interface	$\geq$ 450 N
Durability (matings)	$\geq$ 100
Bending moment admissible (interface)	$\leq$ 10 Nm
Contact captivation	$\geq$ 28 N

ENVIRONMENTAL DATA	TEST CONDITIONS
Temperature range	– 40°C ... + 125°C / – 40°F ... + 257°F
Climatic category	40 / 125 / 21 (IEC 60169_1 16.2)
Corrosion	Saltspray test acc. to MIL-STD-202 F, Method 101 D, Condition B
Vibration	IEC-1169-1 paragraph 9.3.3. (10-500 Hz; 5g)
Moisture resistance	MIL-STD-202 F, Method 106 F
Rapid change of temperature	IEC 60169-1 16.4 ( –40° C ... + 125° C / – 40°F ... + 257°F )
Shock	MIL-STD-202 F, Method 213, Condition I
Water resistance	IP 68

MATERIAL DATA		
CONNECTOR PART	MATERIAL	PLATING
Bodies	brass	SUCOPLATE®
Pin contact	brass	SUCOPRO
Socket contact	spring bronze	SUCOPRO
Contact washer	spring bronze or copper beryllium	SUCOPRO
Insulators	typ.: PTFE or PFA	

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