

Interface dimensions conformable to the Standards:

International: **IEC 60169-15**
 Europe: **CECC 22110**
 USA: **MIL-C-39012, SMA**
Interface MIL-STD-348a/310

GB: **BS 9210 N 0006**
 F: **NF-C-93563 (KMR)**

TECHNICAL DATA

ELECTRICAL DATA	MIL-C-39012				
Cable type		semi-rigid		flexible	
Cable dielectric diameter (mm/ <i>in.</i>)		1.5 / .066	3 / .117	1.5 / .066	3 / .117
Impedance		50 Ω			
Frequency range for interface		DC ... 18 GHz			
VSWR (typical value)		see table below			
RF-leakage measured at 3 GHz (f in GHz)	3.26	≥ 100 dB-f		≥ 60 dB	
Dielectric withstanding voltage (at sea level, in V rms, 50 Hz)	3.17	1000	1500	750	1000
Working voltage (at sea level, in V rms, 50 Hz)		≤ 335	≤ 500	≤ 250	≤ 335
Corona extinction voltage (at 21 000 m/70 000 ft., in V rms, 50 Hz)	3.22	250	375	190	250
Working voltage (at 21 000 m/70 000 ft., in V rms, 50 Hz)		≤ 85	≤ 125	≤ 65	≤ 85
RF withstanding voltage at 5 MHz (V rms)	3.23	670	1000	500	670
Insulation resistance	3.11	≥ 5 · 10 ³ MΩ			
Contact resistance - centre contact - outer contact	3.16	≤ 3mΩ ≤ 2.5 mΩ			

TYPICAL VSWR	FREQUENCY RANGE					CABLE GROUP
CONNECTOR TYPE	1 GHz	2.5 GHz	5 GHz	12.4 GHz	18 GHz	
straight connectors	1.03	1.03	1.03	1.07	1.08	Y3, Y11
	1.03	1.03	1.04	1.07	1.15	Y5, Y12
	1.05	1.07	1.08			U2, U4
	1.04	1.05	1.07			U7, U9
right angle connectors	1.03	1.05	1.10	1.25		Y3, Y11
	1.03	1.05	1.08	1.17		Y5, Y12
	1.05	1.07	1.11			U2, U4
	1.03	1.05	1.07			U7, U9

MECHANICAL DATA		MIL-C-39012
Recommended coupling nut torque		standard: 0.8 Nm ... 1.1 Nm / 7.1 in.-lbs. ... 9.7 in.-lbs brass: 0.45 Nm / 4.0 in. lbs
Coupling nut retention force	3.25	≥ 270 N / 60.7 lbs
Contact captivation - axial	3.12	≥ 27 N / 6.1 lbs
Cable retention force ¹⁾		CLICK HERE

1) value considers maximum load of the cables without irreversible variations of specifications.

ENVIRONMENTAL DATA		MIL-C-39012
Temperature range		- 65°C ... +165°C - / - 85°F ... +329°F
Climatic category		IEC → 55 / 155 / 21
Thermal shock	3.20	MIL-STD-202, Method 107, Condition B
Moisture resistance	3.21	MIL-STD-202, Method 106
Corrosion	3.13	Saltspray test acc. to MIL-STD-202, Method 101, Condition B
Vibration	3.18	MIL-STD-202, Method 204, Condition D
Shock	3.19	MIL-STD-202, Method 213, Condition I

MATERIAL DATA			
CONNECTOR PART	STANDARDS	MATERIAL	PLATING
Bodies, outer contacts	QQ-C-530 ISO CuNi1Pb1P QQ-S-763 QQ-B-626 —	beryllium-copper, hardened copper (spring) stainless steel brass spring bronze	gold passivated SUCOPLATE®, gold gold
Pin contact	QQ-C-530 QQ-B-626	beryllium-copper, hardened brass	gold
Crimp ferrules	SUHNER® specification QQ-B-626	copper brass	gold
Socket contact	QQ-C-530 ISO CuNi1Pb1P —	beryllium-copper, hardened copper (spring) spring bronze	gold gold
Insulators		PTFE or PFA	
Gaskets		silicone rubber	

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.