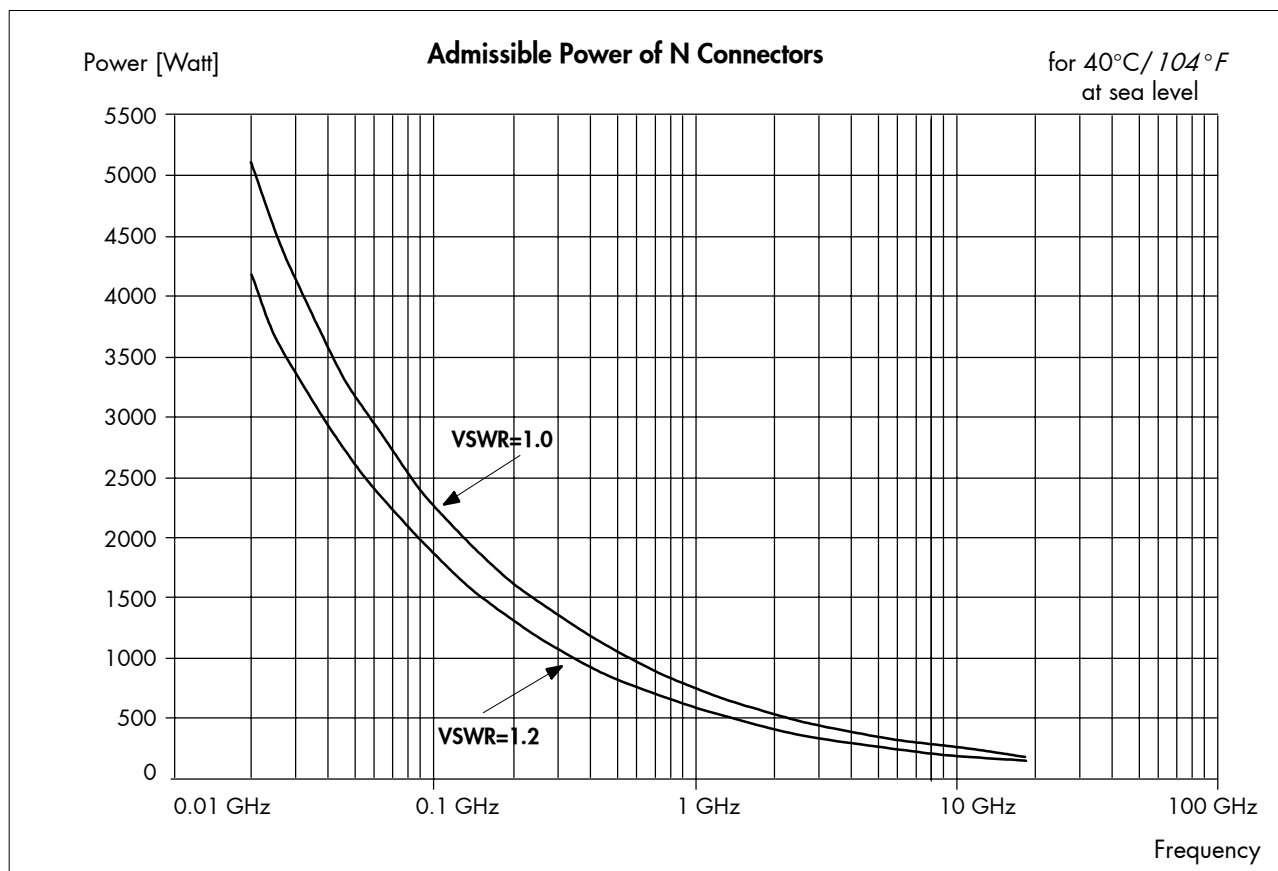


Technical Data

ELECTRICAL DATA	REQUIREMENTS
Impedance	50 Ω
Frequency range - flexible cables - semi-rigid cables	DC ... 11 GHz DC ... 18 GHz
VSWR	see table below
Insertion loss	Please CLICK HERE .
RF-leakage (between 2 ÷ 3 GHz)	≥ 90 dB
Dielectric withstanding voltage (at sea level)	2.5 kV rms, 50 Hz
Working voltage (at sea level)	≤ 1.0 kV rms, 50 Hz
Insulation resistance	$\geq 5 \cdot 10^3$ M Ω
Contact resistance - centre contact - outer contact	≤ 1.0 m Ω ≤ 1.0 m Ω

TYPICAL VSWR	FREQUENCY RANGE					CABLE GROUP
CONNECTOR TYPE	1 GHz	2.5 GHz	5 GHz	12.4 GHz	18 GHz	
straight connectors	1.04	1.05	1.08			M6
	1.03	1.04	1.06	1.12		Y5, Y12
	1.03	1.04	1.05	1.07	1.09	Y5, Y12
	1.03	1.04	1.05	1.08	1.12	Y7
	1.05	1.09	1.17			U7, U9
	1.04	1.06	1.12			U28, U29, U32, U33
	1.03	1.05	1.14			S24
	1.03	1.05	1.10			S39
right angle connectors	1.04	1.05	1.08			M6
	1.04	1.05	1.06	1.12		Y5, Y12
	1.05	1.10	1.20			U7, U9
	1.08	1.10	1.12			U28, U29, U32, U33



For detailed information regarding power measurement, please [CLICK HERE](#).

MECHANICAL DATA	REQUIREMENTS					
Coupling nut torque - recommended - proof torque	0.68 Nm ... 1.13 Nm / 6.0 ... 10.0 in. lbs 1.70 Nm / 15.0 in. lbs					
- recommended torque for connectors with profile HEX19 (HEX18) coupling nut	Matings	500	250	100	60	30
	Torque	1 Nm	2 Nm	3 Nm	4 Nm	5 Nm
Coupling nut retention force	≥ 450 N / 101.2 lbs					
Contact captivation	≥ 28 N / 6.3 lbs					
Cable retention force ¹⁾	see pages 42 - 48					
Durability (matings)	≥ 500					

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

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 B
Shock	MIL-STD-202, Method 213, Condition I

MATERIAL DATA			
CONNECTOR PART	STANDARDS	MATERIAL	PLATING
Bodies Pin contact	QQ-B-626	brass	SUCOPLATE gold
Female contacts	QQ-C-530	beryllium-copper, hardened	gold
Crimp ferrules	SUHNER specification	copper	SUCOPLATE
Insulators, standard version		PTFE or PFA	
Gaskets		silicone rubber	

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