

SPECIFICATION

7/16 FEMALE CONNECTOR FOR 1/2"SF CABLE

7/16 (DIN) coaxial connectors – high-quality coaxial connectors with low attenuation and inter-modulation for frequencies up to 8.3 GHz. Transmission of medium to high power with radio transmitters and low PIM transmission of received signals such as in mobile phone base stations are typical applications due to their high mechanical stability and best possible weather resistance.

The 7-16 connector is the most rugged RF connection meeting all requirements even under the most severe environmental conditions. Sealing against outer conductor and jacket by means of the o-ring and 360° compression fit.

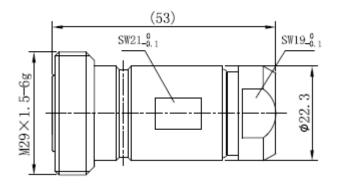
Watertight sealing in mated and unmated condition, i.e reduced efforts during installation and improved security during operation

Tri-alloy plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances

RoHS compliant can be used on a global basis

Standards	IEC60169-4		
Electrical Characteristics	1	Mechanical Chracteristics	
Contact resistance inner conductor	≤0.4 mΩ	Recommended coupling torque	25-35Nm
Contact resistance outer conductor	≤0.2 mΩ	Durability (mating cycles)	≥500
Insulation resistance	\geq 10 GQ	Material: spring contacts	Brass
Voltage proof	4.0KV/50Hz	Material: outer conductor	Brass
Impedance	50 Ω	Material: other metal parts	Brass
Return loss: Straight style	\geq 32 dB/4GHz; 19.1dB/6GHz	Material: insulators	PTFE
Return loss: Angle type	≥ 40 dB/1GHz; 19.1dB/6GHz	Plating: Inner conductor	Ag/Au
Working voltage	2.7KV/50Hz	Plating: Outer conductor	Ni/Tri-alloy
Frequency range up to	8.3GHz	Plating: Other metal parts	Ni/Tri-alloy





Part Number: 7/16-F 1/2HR

Dimensions are in millimeters

Interface		
According to		IEC 60169-4
General Specifications		
Cable Size		1/2"
Cable Type		Superflexible
Connector Interface		7/16 DIN
Sealing Method		Sealing rubber and shrinking sleeve
Gender		Female
Electrical		
Characteristic Impedance		50 ohm
Frequency Range		DC-7.5GHz
VSWR		≤1.10(0-3G)
PIM Intermodution@2-tonex20w		≤-160 dBc
Dielectric Withstanding Voltage		≥4000V RMS,50Hz,at sea level
Dielectric Resistance		≥10000MΩ
Contact Resistance		Center Contact ≤0.4mΩ
		Outer Contact ≤0.2mΩ
Mechanical		
Durability		Mating cycles ≥500 cycles
Material and Plating		
	Material	Plating
Body	Brass	Tri-Alloy
Center conductor	Phosphor Bronze	Ag
Insulator	PTFE	-
Gasket	Silicone rubber	-
Other	Brass	Tri-alloy/Ni
Environmental		
Installation Temperature CF	°C(°F)	-40 to 85(-40 to 185)
Storage Temperature CF	°C(°F)	-40 to 85(-40 to 185)
Operation Temperature CF	°C(°F)	-40 to 85(-40 to 185)
Watertightness		IP68
RoHS-compliance		Full RoHS Compliance
Salt-fog test		96h