

SPECIFICATION

7/16 MALE CONNECTOR FOR 1-5/8" FEEDER 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

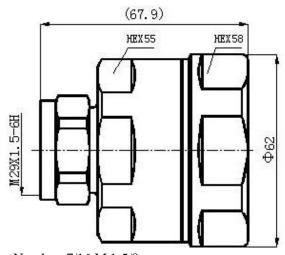
Tri-alloy plating i.e. extreme resistance against corrosion even under hardest climatic and environmental circumstances

RoHS compliant can be used on a global basis

Standards	IEC60169-4		
Electrical Characteristics		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	$\geq 10 \text{ G}\Omega$	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	≥ 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



-40 to 85(-40 to 185)





Part Number: 7/16-M 1-5/8 Dimensions are in millimeters

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Interface			
According to		IEC 60169-4	
General Specifications			
Cable Size		1-5/8"	
Cable Type		Foam Dielectric	
Connector Interface		7/16 DIN	
Sealing Method		Sealing rubber and shrinking sleeve	
Gender		Male	
Electrical			
Characteristic Impedance		50 ohm	
Frequency Range		DC-7.5GHz	
VSWR		$\leq 1.15(0-3G)$	
PIM Intermodution@2-tonex20w		≤-160 dBc	
Dielectric Withstanding Voltage		≥4000V RMS,50Hz,at sea level	
Dielectric Resistance		≥10000MΩ	
Contact Resistance		Center Contact $\leq 0.4 \text{m}\Omega$	
		Outer Contact ≤0.2mΩ	
Mechanical			
Durability		Mating cycles ≥500 cycles	
Material and Plating			
	Material	Plating	
Body	Brass	Tri-Alloy	
Center conductor	Brass	Ag	
Insulator	PTFE	-	
Gasket	Silicone rubber	-	
Other	Brass	Tri-alloy/Ni	
Environmental			
Installation Temperature CF	$\mathbb{C}(\mathbb{F})$	-40 to 85(-40 to 185)	

 $\mathbb{C}(\mathbb{F})$

Storage Temperature CF

 $\mathbb{C}(\mathbb{F})$ Operation Temperature CF Watertightness RoHS-compliance Salt-fog test

-40 to 85(-40 to 185) IP68 Full RoHS Compliance 96h