Technical
Data Sheet

SMA M CRIMP for RG178 Cable

P/N: AT3S1D-6W

Product Feature:

- Connector Type : SMA
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Crimp
- Cable : RG178
- Application : General Purpose/Telecom etc

The **SMA Male Crimp Connector for RG178 coaxial cable** is an ultra-compact RF connector specifically designed for micro-miniature, high-temperature cabling. Engineered to deliver reliable **performance up to 6 GHz**, its precise crimp design ensures a highly secure electrical and mechanical connection despite the cable's extremely small diameter. Because RG178 utilizes a Teflon jacket for exceptional thermal resistance, this connector is widely used in tightly constrained spaces and harsh environments, **including internal wireless module wiring, aerospace telemetry, military communications, medical electronics, and miniature RF testing probes.**

Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 6	GHz
VSWR	≤ 1.15	@DC-3 GHz
	≤ 1.25	@3-5 GHz
Insertion Loss	≤ 0.2	@DC-4 GHz
Insulation Resistance	≥ 5000	MΩ
Dielectric Withstanding Voltage	≥ 1.0	kVrms (at sea level)
Inner Conductor Resistance	≤ 3.0	mΩ
Outer Conductor Resistance	≤ 2.0	mΩ
Power Handling	350	W @1GHz
RF Leakage	≤ -60	dB @1GHz

Ground floor, Plot No -20, (KH No-160/1,street No-3/2, samta Vihar, Mukandpur Extn., North West Delhi, Delhi-110042
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Material & Plating		
Component	**Material**	**Plating**
Center Conductor	Brass	Gold
Outer Conductor/Body	Brass	Gold
Coupling Nut	Brass	Gold
Ferrule	Copper Alloy	Nickel
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

Mechanical & Environmental Specifications		
Parameter	**Value**	**Unit**
Durability (Matings)	≥ 500 min.	-
Fastening Type	1/4-36	-
Contact Captivation	≥ 27	N
Coupling Nut Retention Force	≥ 270	N
Cable Type Compatibility	RG178 Cable	-
Operating Temperature	-50 ~ 125	°C
Compliance	ROHS	-

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