Technical
Data Sheet

UHF M CRIMP for LMR600 Cable

P/N: AT3U1D-3G

Product Feature:

- Connector Type : UHF (PL-259)
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Crimp
- Cable : LMR600
- Application : Military Communication /Telecom etc

The **UHF Male Crimp Connector** for **LMR600 Cable** is a heavy-duty RF component engineered for ultra-low-loss, high-power coaxial lines. Its **precision crimp termination** provides an **exceptionally strong mechanical bond and superior shielding**, ensuring **minimal signal attenuation**. This connector is widely utilized in **high-power wireless infrastructure**, **commercial broadcast systems**, and **long-distance HF/VHF links**. Its robust design is ideal for **base station antenna feeders**, **military-grade communication towers**, and **industrial RF generators** where maintaining peak signal integrity over extended runs is critical.

Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 1	GHz
VSWR	≤ 1.10	@DC-500 MHz
	≤ 1.20	@500-1000 MHz
Insertion Loss	≤ 0.1	@DC-500 MHz
Insulation Resistance	≥ 5000	MΩ
Dielectric Withstanding Voltage	≥ 2.0	kVrms (at sea level)
Inner Conductor Resistance	≤ 5	mΩ
Outer Conductor Resistance	≤ 5	mΩ
Power Handling	≥ 500	W @1GHz
Shielding Effectiveness	≥ 60	dB @300 MHz

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Material & Plating		
Component	**Material**	**Plating**
Center Conductor	Brass	Gold
Outer Conductor/Body	Brass	Tri-Alloy
Fastening Nut	Brass	Nickel
Ferrule	Brass	Nickel
Dielectric	PTFE	-

Mechanical & Environmental Specifications		
Parameter	**Value**	**Unit**
Durability (Matings)	≥ 500 min.	-
Fastening Type	5/8-24 Threaded	-
Coupling Nut Torque	1.1	Nm
Coupling Nut Retention Force	≥ 450	N
Cable Type Compatibility	LMR600 Cable	-
Operating Temperature	-40 ~ 80	˚C
Compliance	ROHS	-

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