

UHF M SOLDER for RG217 Cable

P/N: AT3U1S-3T

Product Feature:

- Connector Type : UHF (PL-259)
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Solder
- Cable : RG217
- Application : Military Communication /Telecom etc

The **UHF Male (PL-259) Solder Connector** for **RG217 cable** is a **rugged, high-power** RF component designed for large-diameter coaxial lines. Featuring a **solder-type termination**, it allows for a permanent, high-conductivity bond that handles high voltage and power levels with minimal resistance. This connector is a standard in **high-power amateur radio (HAM), maritime communication systems, and commercial HF/VHF broadcasting**. Its robust construction is ideal for **industrial RF induction heating, military-grade transmitters, and base station antennas** where a heavy-duty, reliable interface is needed for frequencies up to 500 MHz.



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	M Ω
Dielectric Withstanding Voltage	≥ 2.0	kVrms (at sea level)
Inner Conductor Resistance	≤ 5	m Ω
Outer Conductor Resistance	≤ 5	m Ω
Power Handling	≥ 500	W @1GHz
Shielding Effectiveness	≥ 60	dB @300 MHz



Technical Data Sheet

Material & Plating		
Component	Material	Plating
Center Conductor	Brass	Gold
Outer Conductor/Body	Brass	Tri-Alloy
Fastening Nut	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	RG217 Cable	-
Operating Temperature	-40 ~ 80	°C
Compliance	ROHS	-