

UHF M CLAMP for 1/2" Feeder Cable

P/N: AT3U1C-3K

Product Feature:

- Connector Type : UHF (PL-259)
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Clamp
- Cable : 1/2" Feeder(LDF)
- Application : Military Communication /Telecom etc

The **UHF Male Clamp Connector for 1/2" Feeder Cable** is a high-performance RF component designed for low-loss, high-power transmission in rigid corrugated lines. Its **clamp-style termination** provides a superior weatherproof seal and secure electrical contact with the solid copper outer conductor. This connector is widely utilized in **cellular base stations**, **professional land mobile radio systems**, and **high-power amateur radio repeaters**. Its low attenuation is ideal for **long-distance antenna runs**, **broadcast transmitter links**, **outdoor telecommunications towers** and **distributed antenna systems (DAS)**.



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 | 1/2" Feeder Cable | - |
| Operating Temperature | -40 ~ 80 | °C |
| Compliance | ROHS | - |