Technical
Data Sheet

# TNC M CRIMP for LMR300 Cable

**P/N: AT3T1D-6H**

**Product Feature:**

- Connector Type : TNC
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Crimp
- Cable : LMR300
- Application : General Purpose/Telecom etc

The **TNC Male Crimp Connector** for **LMR300 cable** is a high-grade RF solution designed for applications requiring a balance between **low signal loss and cable flexibility**. Its threaded coupling mechanism provides a secure, vibration-resistant connection, while the crimp termination ensures a reliable, permanent bond to the thicker LMR300 coaxial structure. Built to **handle higher power levels and frequencies**, it offers **excellent shielding and durability**. This connector is commonly used in **base station antennas, cellular signal repeaters, GPS infrastructure, and military communication systems** where high-integrity connectivity is vital.

**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 | ≥ 1.5 | kVrms (at sea level) |
| Inner Conductor Resistance | ≤ 1.5 | mΩ |
| Outer Conductor Resistance | ≤ 0.2 | mΩ |
| Power Handling | 316 | W @1GHz |
| RF Leakage | ≤ -55 | 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 | Nickel |
| Ferrule | Brass | Nickel |
| Fastening Nut | Brass | Nickel |
| Dielectric | Teflon/PTFE | - |
| Gasket | Silicone rubber | - |

| Mechanical & Environmental Specifications | | |
|---|---|---|
| **Parameter** | **Value** | **Unit** |
| Durability (Matings) | ≥ 500 min. | - |
| Fastening Type | 7/16-28 | - |
| Contact Captivation | ≥ 27 | N |
| Coupling Nut Torque | 46 - 69 | Ncm |
| Coupling Nut Retention Force | ≥ 450 | N |
| Cable Type Compatibility | LMR300 Cable | - |
| Operating Temperature | -40 ~ 85 | °C |
| Compliance | ROHS | - |

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