

## N M CRIMP for LMR300 Cable

P/N: AT3N1D-6H

### Product Feature:

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

The **N-Type Male Crimp Connector** is a heavy-duty, 50-ohm RF interface specifically engineered for **LMR300** and equivalent low-loss coaxial cables (such as **HLF300** or **RF300**). This connector is designed to provide a secure, vibration-resistant termination that maintains low signal attenuation and a low VSWR (typically  $\leq 1.2$ ) up to **5 GHz**, with some precision models rated up to **11 GHz**. It is widely used in **antenna systems, base stations, and RF testing equipment** where durability and signal integrity are paramount.



### Electrical Specifications

| Parameter                       | Value       | Unit       |
|---------------------------------|-------------|------------|
| Characteristic Impedance        | 50          | $\Omega$   |
| Frequency Range                 | DC ~ 8      | GHz        |
| VSWR                            | $\leq 1.15$ | @DC-3 GHz  |
|                                 | $\leq 1.20$ | @3-5 GHz   |
| Insertion Loss                  | $\leq 0.05$ | @DC-5 GHz  |
| Insulation Resistance           | $\geq 5000$ | M $\Omega$ |
| Dielectric Withstanding Voltage | $\geq 2.5$  | kVrms      |
| Inner Conductor Resistance      | $\leq 1.0$  | m $\Omega$ |
| Outer Conductor Resistance      | $\leq 0.25$ | m $\Omega$ |
| Power Handling                  | 1.0         | kW @1GHz   |
| RF Leakage                      | $\leq -90$  | dB @1GHz   |



## Technical Data Sheet

| <b>Material &amp; Plating</b> |                    |                |
|-------------------------------|--------------------|----------------|
| <b>Component</b>              | <b>Material</b>    | <b>Plating</b> |
| Center Conductor              | Phosphorous bronze | Gold           |
| Outer Conductor/Body          | Brass              | Tri-Alloy      |
| Coupling Nut                  | Brass              | Tri-Alloy      |
| Ferrule                       | Brass              | Tri-Alloy      |
| Dielectric                    | PTFE               | -              |
| Gasket                        | Silicone rubber    | -              |

| <b>Mechanical &amp; Environmental Specifications</b> |               |             |
|--|---------------|-------------|
| <b>Parameter</b>                                     | <b>Value</b>  | <b>Unit</b> |
| Durability (matings)                                 | ≥ 500 min.    | -           |
| Coupling nut torque                                  | 25/30         | Nm          |
| Cable Type Compatibility                             | LMR 300 Cable | -           |
| Operating Temperature                                | -40 ~ 85      | °C          |
| Ingress Protection (IP Rating)                       | IP67          | -           |
| Compliance   | ROHS          | -           |