

### N M RA CRIMP for LMR300 Cable

P/N: AT3N3D-6H

#### Product Feature:

- Connector Type : N Type
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Right Angle (90°)
- Termination Style : Crimp
- Cable : LMR300
- Application: General Purpose/Telecom etc.

The **N-Type Male Right-Angle (RA) Crimp Connector** for **LMR300** is a specialized 50-ohm RF interface designed for installations where space is constrained and cable management is critical. The 90-degree geometry prevents excessive bending and stress on the cable, which is particularly important for LMR300 due to its semi-rigid nature compared to smaller cables. This connector provides a secure, vibration-resistant connection with high shielding effectiveness up to **6 GHz**.



#### Electrical Specifications

| Parameter                       | Value       | Unit       |
|---------------------------------|-------------|------------|
| Characteristic Impedance        | 50          | $\Omega$   |
| Frequency Range                 | DC ~ 6      | GHz        |
| VSWR                            | $\leq 1.20$ | @DC-3 GHz  |
|                                 | $\leq 1.25$ | @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          | -           |