Technical
Data Sheet

N F CRIMP for LMR300 Cable

P/N: AT3N2D-6H

Product Feature:

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

The **N-Type Female 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 **≤ 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	Ω
Frequency Range	DC ~ 6	GHz
VSWR	≤ 1.15	@DC-3 GHz
	≤ 1.20	@3-5 GHz
Insertion Loss	≤ 0.05	@DC-5 GHz
Insulation Resistance	≥ 5000	MΩ
Dielectric Withstanding Voltage	≥ 2.5	kVrms
Inner Conductor Resistance	≤ 1.0	mΩ
Outer Conductor Resistance	≤ 0.25	mΩ
Power Handling	1.0	kW @1GHz
RF Leakage	≤ -90	dB @1GHz

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Material & Plating		
Component	**Material**	**Plating**
Center Conductor	Phosphorous bronze	Gold
Outer Conductor/Body	Brass	Tri-Alloy
Ferrule	Brass	Tri-Alloy
Dielectric	PTFE	-
Gasket	Silicone rubber	-

Mechanical & Environmental Specifications		
Parameter	**Value**	**Unit**
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	-

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