Technical
Data Sheet

TNC M RP CRIMP for LMR240 Cable

P/N: AT3T1D-6F2

Product Feature:

- Connector Type : TNC
- Polarity : Reverse Polarity
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Crimp
- Cable : LMR240
- Application : General Purpose/Telecom etc

The **TNC Male Reverse Polarity (RP) Crimp Connector** is specifically designed for **LMR240 cable**, providing a high-performance, low-loss interface for medium-range RF applications. This connector features a male body shell with a female socket center contact to comply with FCC Part 15 regulations for non-standard antenna ports. Its threaded coupling ensures high vibration resistance and a secure electrical connection. Key applications include **Wi-Fi 6 access points, outdoor wireless bridges, cellular signal boosters, and commercial mesh networks** 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
	≤ 1.25	@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

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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	LMR240 Cable	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-

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