Technical
Data Sheet

TNC M CLAMP for LMR240 Cable

P/N: AT3T1C-6F

Product Feature:

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

The **TNC Male Clamp Connector** for **LMR240 cable** is a premium, field-terminable RF solution engineered for **high-reliability signal transmission.** The clamp-style attachment provides a secure mechanical bond **without the need for specialized crimping tools**, making it perfect for on-site installations and maintenance. Featuring a threaded coupling interface, it offers excellent vibration resistance and environmental sealing compared to standard BNC connectors. It is widely used in **marine electronics, outdoor wireless base stations, GPS navigation systems, and mission-critical telecommunications infrastructure** where durable, low-loss connectivity is essential.

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
Back Nut	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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