Technical
Data Sheet

TNC F CRIMP for LMR100/RG174/RG316 Cable

P/N: AT3T2D-6C

Product Feature:

- Connector Type : TNC
- Polarity : Standard
- Gender : Female/Jack
- Geometry : Straight
- Termination Style : Crimp
- Cable : LMR100/RG174/RG316
- Application : General Purpose/Telecom etc

The **TNC Female Crimp Connector** for **LMR100, RG174, and RG316 Cables** is a high-precision RF interface tailored for thin, flexible coaxial cables. Featuring a threaded coupling mechanism, it provides **superior vibration resistance** and mechanical stability compared to SMB or BNC alternatives. The crimp-style termination ensures a **permanent, high-strength bond** that maintains consistent signal integrity and excellent shielding for miniaturized setups. It is widely used in **GPS modules, portable medical devices, wireless M2M communications, and internal RF routing**, providing a reliable, low-loss connection in space-constrained environments.

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

Ground floor, Plot No -20, (KH No-160/1,street No-3/2, samta Vihar, Mukandpur Extn., North West Delhi, Delhi-110042
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Material & Plating		
Component	**Material**	**Plating**
Center Conductor	Brass	Gold
Outer Conductor/Body	Brass	Nickel
Ferrule	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
Cable Retention Force	≥ 135	N
Cable Type Compatibility	LMR100/RG174/RG316 Cable	-
Operating Temperature	-40 ~ 85	℃
Compliance	ROHS	-

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