



Overview

Amphenol RF offers single crimp N-Type connectors that provide easy installation by eliminating the need to crimp the contact separately. A hex-shaped body makes it easy to grip with a wrench in order to mate and once mated, these connectors become IP67-rated for temporary protection against the ingress of water or dust, adding to the robustness of the connector interface. These connectors are well suited for applications that require installation in the field with minimal tools such as antennas, base stations and radar systems.

The N-Type single crimp product series is designed for cables with a solid center conductor and features a threaded coupling mechanism for secure mating. These durable connectors are vibration resistant and have a wide temperature range which makes them ideal for equipment located in harsh environments.

Features and Benefits

- Single crimp installation
- Reliable electrical performance up to 6 GHz
- Small package size
- Threaded coupling for secure mating
- IP67 rated when mated

Applications

- Antennas
- Base Stations
- Radar Systems

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

For more information visit www.amphenolrf.com
or call 800.627.7100

Ordering Information

N-Type Straight Jacks

Part Number	Cable Type
082-6808	Low Loss 195
082-6809	Low Loss 200
082-6810	Low Loss 400
082-6811	Low Loss 600

N-Type Straight Plugs

Part Number	Cable Type
082-6812	Low Loss 195
082-6813	Low Loss 200
082-6814	Low Loss 400
082-6815	Low Loss 600

Amphenol® RF

Technical Specifications

Electrical

Impedance		50Ω
Frequency Range		DC – 6 GHz
Return Loss	DC – 3 GHz	1.20 Max
	3 – 6 GHz	1.30 Max
Dielectric Withstanding Voltage		1000 VRMS Min
Insulation Resistance		5000 MΩ Min
Center Contact Resistance		1 mΩ Min
Outer Contact Resistance		4 mΩ Min
RF Leakage		-90 dB Max (DC – 3 GHz)
Power Handling		300 W @ 10 GHz @ 25°C

Environmental

Temperature Range	-65°C to +165°C
RoHS Compliance	Compliant with Exemption 6C

Mechanical

Mating Cycles	500 Min
Coupling Mechanism	Threaded

Materials

Body	Brass, Nickel Plated
Contact	Beryllium Copper, Gold Plated
Insulator	PTFE

Note: Technical specifications are typical and may vary by specific part number. Please see component drawing.

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