

DATASHEET

CN-Nx-F12/ CN-4x-F12

DS-Control: 1-0-3 / 260513

Connectors for 1/2" Coaxial Cable

CN-NM-F12/ CN-NF-F12/ CN-NMR-F12

CN-4M-F12/ CN-4F-F12

N-type, 4.3-10 connectors for CS-F12PAR/CS-F12PAW, CS-AF12PAR, 1/2" Plenum rated Coaxial Cable and CS-F12UAK series Coax Cable



Electrical Specifications

Product Model	CN-NM-F12	CN-NMR-F12	CN-NF-F12	CN-4M-F12	CN-4F-F12
Connector type	N-Male	N-Male R/A	N-Female	4.3-10 Male	4.3-10 Female
Frequency (MHz)			DC-6000		
Impedance (ohm)			50.0		
Inner Conductor Contact Resistance (mΩ)			≤1		
Outer Conductor Contact Resistance (mΩ)			≤1		
Insulation Resistance (MΩ)			≥5000		
Insulation Withstanding Voltage (V)			≥1500		
Insert Loss (dB)			≤0.05Vf(GHz)		
VSWR					
	DC-3.0GHz		≤ 1.15		
	3.0-4.2GHz		≤ 1.20		
	4.2-6.0GHz		≤ 1.25		
PIM (dBc)			≤ -161 @ 2x 43dBm (@900MHz, 2x43dBm)		

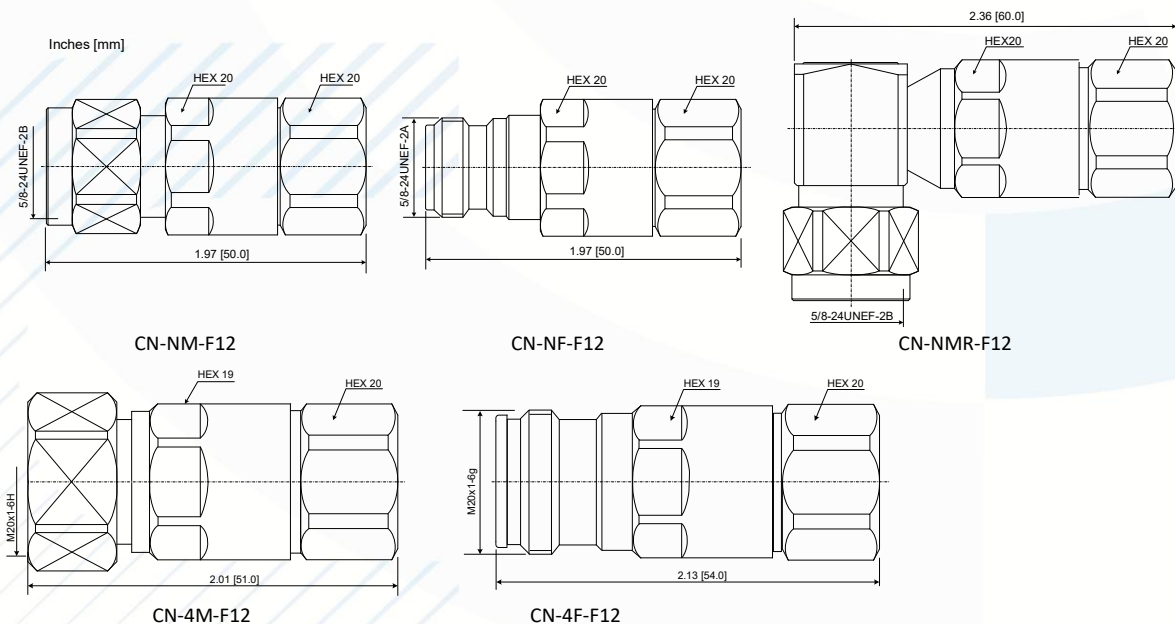
Mechanical Specifications

Dimension (in/ mm)	2.13x0.87x0.87 / 54.0x22.0x22.0
Weight (lb/kg)	0.18 / 0.08
Shipping Dimension (in/mm)	2.76x1.57x1.57 / 70.0x40.0x40.0
Shipping Weight (lb/kg)	0.26 / 0.12
Interface Durability, number of cycles	100
Connector Type	N-type and 4.3-10type
Outer Conductor Material	Brass, Tri-alloy Plated
Inner Conductor Material	Spring Bronze, Ag Plated
Sealing	Silicone Rubber
Insulator Material	PTFE
Other	Brass, Ni Plated

Environment & Compliance

Application	Indoor / Outdoor
Operation Temperature	-40°C to +85°C
Environment	IP67
Relative Humidity	Up to 95%
RoHS	Compliant
Related Products	CS-F12PAR/CS-F12PAR500 CS-F12PAW/CS-F12PAW500 CS-AF12PAR500/CS-AF12PAR750 CS-F12UAKxxx series
Related Tools	TL-F12, Auto Preparation tool kit FL-F12, Flaring tool

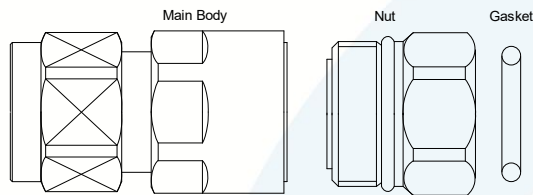
Outline Drawing



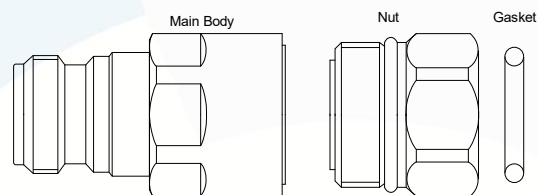
Installation Instruction

CN-NM-F12/CN-NF-F12 and CN-4M-F12/CN-4F-F12 Assembly Procedure

1. Parts



CN-NM-F12

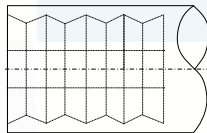


CN-NF-F12

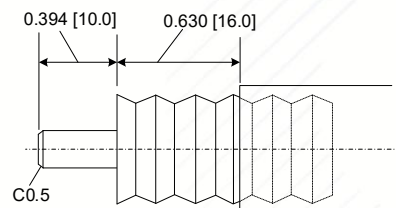
2. Tools

Auto Preparation Tool AP-F12, 2 x HEX 20, HEX 19 wrench

3. Coaxial cable preparation

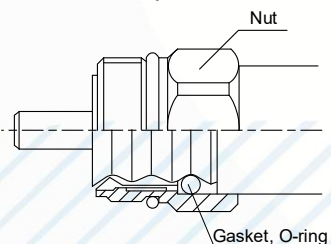


Step 1. Cut the cable as cleanly as possible. The cut should be made at the peak of the corrugation.

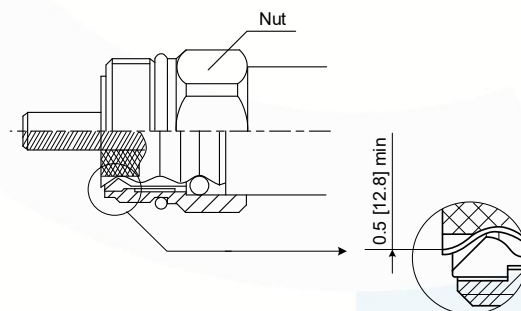


Step 2. Use the auto prep tool (AP-F12) to prepare the cable. Afterward, ensure all remaining dielectric material is completely removed.

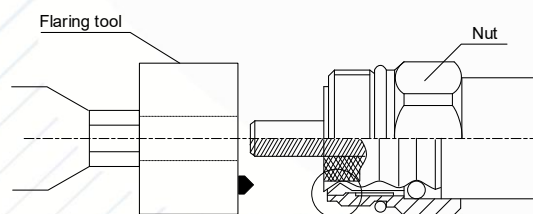
4. Connector Assembly



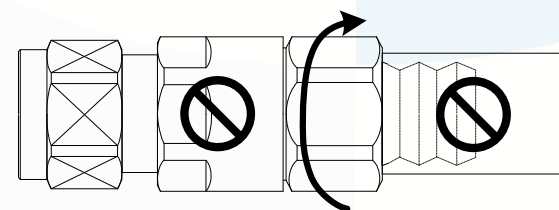
Step 3. Insert the gasket together with the outer conductor. Then slide the nut onto the coaxial cable and align it with the outer conductor, as shown in the picture.



Step 4. Thread the nut onto the cable.



Step 5. Flaring the outer conductor of the coaxial cable



Step 6. Insert the main body to the nut and tighten it clockwise, as shown the picture. While tightening the nut, hold the main body and the coaxial cable firmly