

# N Series for HFSC



## PRODUCT DESCRIPTION

This N Series connector is compatible with the HFSC Feeder Series. The connectors are manufactured from an alloy material of copper, tin and zinc to produce a highly polished, strong connector. This alloy combination allows for a better operating temperature range and improved environmental performance.

## FEATURES/BENEFITS

- Two-piece design is the industry standard
- Simple 6-step user-friendly installation process
- Four ordinary tools needed; available in a common installers tool bag
- Connector can be disassembled and re-used
- Offers stable connections

## SPECIFICATIONS

Bodies, Cap (Coupling Nut) Material	Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Back Nut Material	Brass/nickel plated
Pin Material	Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Female: Beryllium - copper/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Insulator Material	Plated PTFE (Teflon®)
Gasket Material	Silicon rubber
Recommended Coupling Nut Torque Nm	25 - 30
Coupling Nut Retention Force Nm	1,000
Contact Captivation N	200
Mating Durability	500 times

## ELECTRICAL SPECIFICATIONS

Impedance Ω	50
Maximum Frequency Range GHz	7.5
V.S.W.R. (Mating) straight (right angle)	1 GHz: 1.08 (1.12) 2 GHz: 1.10 (1.15)
Maximum Insertion Loss dB @ 3 GHz	Riser: 0.2 Plenum: -0.1
IMD dBc	-155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Insulation Resistance MΩ	≥ 5,000
Contact Resistance mΩ	Riser: inner 0.4, outer 1.5 Plenum: inner 1.5, outer 1.5

## ENVIRONMENTAL SPECIFICATIONS

Temperature Range °F (°C)	-40 - 185 (-40 ~ +85)
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka
Vibration	CECC 22000 Part 4.6.3
Waterproof	IP68

## PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Compatible Cable Type	Compatible Cable Size in (mm)	N Interface Type		Length in (mm)	Diameter in (mm)	Weight oz (g)
			Gender	Straight or Angle			
CHFS-12NF	HFSC Riser	½ (12)	Female	Straight	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CHFS12NFR	HFSC Riser	½ (12)	Female	Right Angle	-	-	-
CHFS-12NM	HFSC Riser	½ (12)	Male	Straight	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CHFS12NMR	HFSC Riser	½ (12)	Male	Right Angle	-	-	-
CHFSP12NF	HFSC Plenum	½ (12)	Female	Straight	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CHFSP12NFR	HFSC Plenum	½ (12)	Female	Right Angle	-	-	-
CHFSP12NM	HFSC Plenum	½ (12)	Male	Straight	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CHFSP12NMR	HFSC Plenum	½ (12)	Male	Right Angle	-	-	-

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## SPECIFICATIONS

Bodies, Cap (Coupling Nut) Material	Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Back Nut Material	Brass/nickel plated
Pin Material	Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Female: Beryllium - copper/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Insulator Material	Plated PTFE (Teflon®)
Gasket Material	Silicon rubber
Recommended Coupling Nut Torque Nm	0.68 - 1.13
Coupling Nut Retention Force Nm	1,000
Contact Captivation N	200
Mating Durability	500 times

## ELECTRICAL SPECIFICATIONS

Impedance $\Omega$	50
Maximum Frequency Range GHz	7.5
V.S.W.R. (Mating) straight (right angle)	1 GHz: 1.08 (1.12) 2 GHz: 1.10 (1.15)
Maximum Insertion Loss dB @ 3 GHz	-0.1
IMD dBc	-155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Insulation Resistance M $\Omega$	$\geq 5,000$
Contact Resistance m $\Omega$	Inner: $\leq 1.5$ Outer: $\leq 1.5$

## ENVIRONMENTAL SPECIFICATIONS

Temperature Range °F (°C)	-49 - 185 (-45 - +85)
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka
Vibration	CECC 22000 Part 4.6.3
Waterproof	IP68

## PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Compatible Cable Type	Compatible Cable Size in (mm)	N Interface Type		Length in (mm)	Diameter in (mm)	Weight oz (g)
			Gender	Straight or Angle			
CLH-12NF	LHF Riser	½ (12)	Female	Straight	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CLH-12NFR	LHF Riser	½ (12)	Female	Right Angle	-	-	-
CLH-12NM	LHF Riser	½ (12)	Male	Straight	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CLH-12NMR	LHF Riser	½ (12)	Male	Right Angle	-	-	-
CLHP-12NF	LHF Plenum	½ (12)	Female	Straight	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CLHP12NFR	LHF Plenum	½ (12)	Female	Right Angle	-	-	-
CLHP12NM	LHF Plenum	½ (12)	Male	Straight	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CLHP12NMR	LHF Plenum	½ (12)	Male	Right Angle	-	-	-

# N Series for HFAC



## SPECIFICATIONS

Bodies, Cap (Coupling Nut) Material	Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Back Nut Material	Brass/nickel plated
Pin Material	Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Female: Beryllium - copper/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Insulator Material	Plated PTFE (Teflon®)
Gasket Material	Silicon rubber
Recommended Coupling Nut Torque Nm	0.68 - 1.13
Coupling Nut Retention Force Nm	1,000
Contact Captivation N	200
Mating Durability	500 times

## ELECTRICAL SPECIFICATIONS

Impedance $\Omega$	50
Maximum Frequency Range GHz	7.5
V.S.W.R. (Mating) straight (right angle)	1 GHz: 1.08 (1.12) 2 GHz: 1.10 (1.15)
Maximum Insertion Loss dB @ 3 GHz	-0.1
IMD dBc	-155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Insulation Resistance G $\Omega$	$\geq 5,000$
Contact Resistance m $\Omega$	Inner: $\leq 1.5$ Outer: $\leq 1.5$

## PRODUCT DESCRIPTION

This N Series connector is compatible with the HFAC Feeder Series. The connectors are manufactured from an alloy material of copper, tin and zinc to produce a highly polished, strong connector. This alloy combination allows for a better operating temperature range and improved environmental performance.

## FEATURES/BENEFITS

- Two-piece design is the industry standard
- Simple 6-step user-friendly installation process
- Four ordinary tools needed; available in a common installers tool bag
- Connector can be disassembled and re-used
- Offers stable connections

## ENVIRONMENTAL SPECIFICATIONS

Temperature Range °F (°C)	-49 - 185 (-45 - +85)
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka
Vibration	CECC 22000 Part 4.6.3
Waterproof	IP68

## PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Compatible Cable Type	Compatible Cable Size in (mm)	N Interface Type		Length in (mm)	Diameter in (mm)	Weight oz (g)
			Gender	Straight or Angle			
CHFA-12NF	HFAC Riser	½ (12)	Female	Straight	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CHFA12NFR	HFAC Riser	½ (12)	Female	Right Angle	-	-	-
CHFA-12NM	HFAC Riser	½ (12)	Male	Straight	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CHFA12NMR	HFAC Riser	½ (12)	Male	Right Angle	-	-	-
CHFAP12NF	HFAC Plenum	½ (12)	Female	Straight	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CHFAP12NFR	HFAC Plenum	½ (12)	Female	Right Angle	-	-	-
CHFAP12NM	HFAC Plenum	½ (12)	Male	Straight	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CHAP12NMR	HFAC Plenum	½ (12)	Male	Right Angle	-	-	-