



318EIA-HCA300-C03KT

3-1/8" EIA Connector Kit for 3" Coaxial Air Dielectric Cable, O-Ring Sealing

RFS Technologies' high-performance air dielectric coaxial cable connectors are designed to ensure a top-quality connector-cable interface, while simplifying and accelerating installation. These connectors, rigorously tested for mechanical and electrical compliance, can be installed quickly and securely with basic hand tools.

The outer contact features a tab flare and integrated O-ring sealing, enhancing both ease of use and durability. Designed for flexibility, the connectors are configured as gas-stop types but can be converted to gas-pass simply by drilling through the insulation.

With a flange interface that meets international EIA and IEC standards, these connectors are built for seamless compatibility. Each C03 series connector is packaged with a flange gasket, coupling element, and necessary hardware—everything required for a reliable and efficient connection.

FEATURES / BENEFITS

- **High power rating for enhanced performance:** Built to handle high power levels, these connectors ensure reliable performance and efficient signal transmission, even under demanding conditions.
- **Quick, labor-saving installation:** Installers can attach these connectors easily with basic hand tools, reducing time and effort on site.
- **Adaptable to a variety of applications:** Designed as a gas-stop type, each connector can also be converted to gas-pass by drilling, offering flexibility to match specific needs.
- **Broad compatibility across systems:** The flange interface complies with EIA and IEC standards, allowing for seamless integration into different setups.
- **Connector kit convenience:** Each C03 series air cable connector comes with a flange gasket, coupling element, and complete hardware kit for mating with another flange, eliminating the need for additional parts and simplifying ordering and stocking.



Connector 3-1/8" EIA

Technical features

GENERAL SPECIFICATIONS

Transmission Line Type		Coax Cable
Cable Size		3-1/8
Cable Type		Air Dielectric
Model Series		HCA300-50 Series
Connector Interface		3-1/8" EIA, Swivel Flange
Connector Type		Gas Stop, can be converted to Gas Pass type by drilling through the insulation
Sealing Method		O-Ring
Gender		Female, with coupling element provided

ELECTRICAL SPECIFICATIONS

Nominal Impedance, ohms	Ohm	50
Insertion loss	dB	≤ 0.05dB
Connector Frequency Range	GHz	DC to 1.64GHz
VSWR, Return Loss	VSWR (dB)	DC to 1.0GHz: 1.02 (40) 1.0GHz to 1.6GHz: 1.05 (32)
Peak Power Rating	KW	640
Average Power Rating	KW	11.6 @ DC to 960MHz

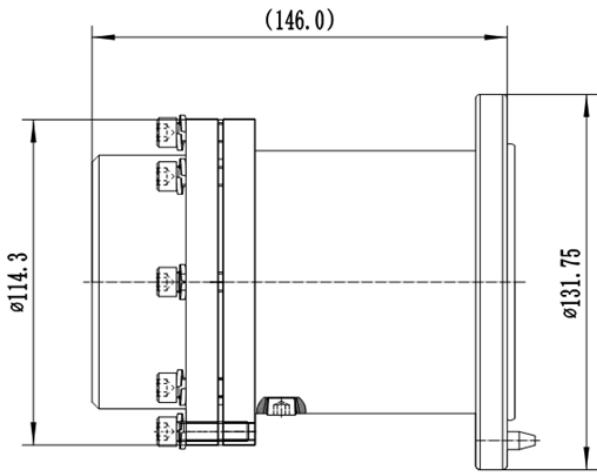


MECHANICAL SPECIFICATIONS

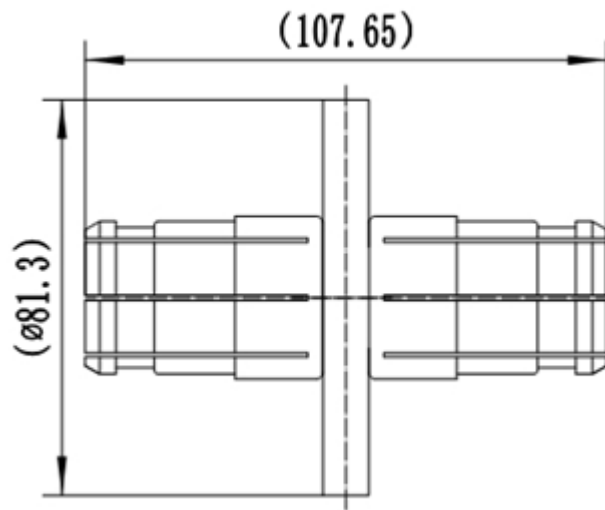
Plating Outer/Inner		Tri-metal / Silver
Length	mm (in)	146 (5.75)
Outer Diameter	mm (in)	114.3 (4.5)
Weight	kg (lb)	4.3 (9.5)
Body Material		Brass
Inner Contact Material		Brass/Phosphor Bronze
Inner Contact Attachment		Tab Flare
Outer Contact Attachment		Tab Flare
Gas Inlet		1/8 NPT Female

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
Operation Temperature	°C(°F)	-55 to 85 (-67 to 185)



Connector Outline Drawing, dimensions in mm



Coupling Element Outline Drawing, dimensions in mm

[External Document Links](#)
[Installation Instruction](#)

Notes

These accessories are provided with the connector.

Protection Cap
Coupling Element
Flange O Ring
Flange Screw Kit

Order 318EIA-HCA300-C03RK for the connector reattachment kit.