



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 1-5/8" EIA

Technical features

GENERAL SPECIFICATIONS

Transmission Line Type		Coax Cable
Cable Size		1-5/8
Cable Type		Air Dielectric
Model Series		HCA158-50 Series
Connector Interface		1-5/8" 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 3GHz
VSWR, Return Loss	VSWR (dB)	DC to 1.0GHz: 1.03 (36.6) 1.0GHz to 2.0GHz: 1.06 (30.7) 2.0GHz to 3.0GHz: 1.10 (26.4)
Peak Power Rating	KW	270
Average Power Rating	KW	5 @ DC to 960MHz

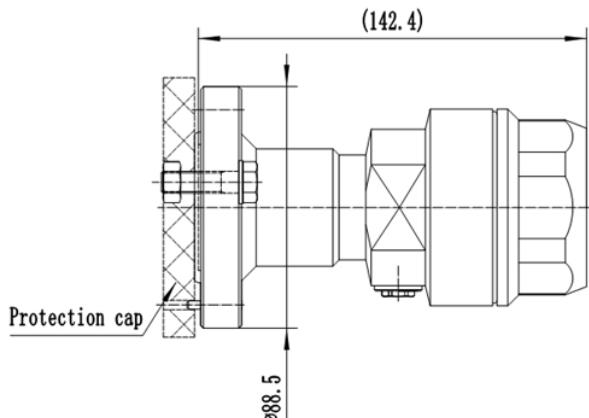


MECHANICAL SPECIFICATIONS

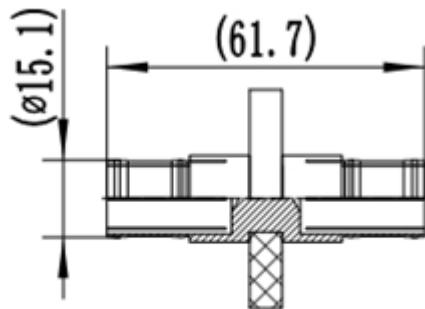
Plating Outer/Inner		Tri-metal / Silver
Length	mm (in)	142.4 (5.6)
Outer Diameter	mm (in)	88.5 (3.5)
Weight	kg (lb)	1.9 (4.2)
Body Material		Brass
Inner Contact Material		Brass/Phosphor Bronze
Inner Contact Attachment		Tab Flare
Outer Contact Attachment		Tab Flare
Gas Inlet		1/8 NPT Female

TESTING AND ENVIRONMENTAL

Waterproof Level		IP68
Operation Temperature	°C (°F)	-40 to 85 (-40 to 185)



Connector Outline Drawing, dimensions in mm



*: dimensions in mm

Coupling Element Outline Drawing

External Document Links

Installation Instruction

Notes

These accessories are provided with the connector.

Protection Cap

Coupling Element

Flange O Ring

Flange Screw Kit

Order 158EIA-HCA158-C03RK for the connector reattachment kit.