



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

Table with 3 columns: Specification, Unit, Value. Rows include 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

Table with 3 columns: Specification, Unit, Value. Rows include Nominal Impedance (50 Ohm), Insertion loss (≤ 0.05dB), Connector Frequency Range (DC to 3GHz), VSWR, Return Loss (DC to 1.0GHz: 1.02 (40), 1.0GHz to 2.0GHz: 1.04 (34), 2.0GHz to 3.0GHz: 1.06 (30.7)), Peak Power Rating (270 KW), Average Power Rating (5 @ DC to 960MHz).

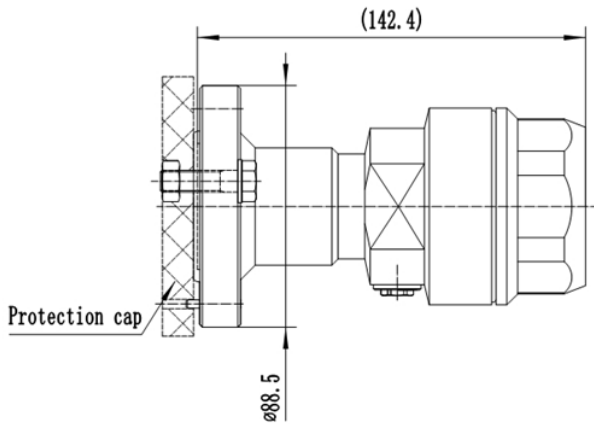


MECHANICAL SPECIFICATIONS

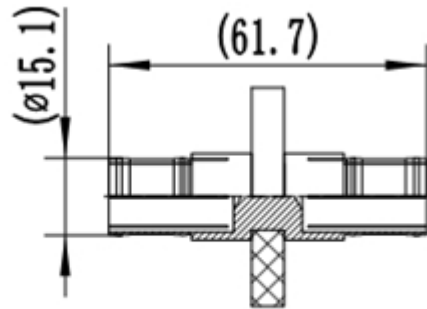
Plating Outer/Inner		Tri-metal / Silver
Length	mm (in)	142.4 (5.6)
Outer Diameter	mm (in)	88.5 (3.5)
Weight	kg (lb)	1.9 (4.2)
Body Material		Brass
Inner Contact Material		Brass/Phosphor Bronze
Inner Contact Attachment		Tab Flare
Outer Contact Attachment		Tab Flare
Gas Inlet		1/8 NPT Female

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.