



High Frequency Color-Coded Adapters



Upgrade Your Testing Workflow With Delta's High Performance, Color-Coded Adapters



Color-Coded Adapters

Color-Coded Adapter Benefits



Introducing Delta's New Color-Coded Adapters









This product only available through these authorized Delta distributors.

Aerospace & Defense Я.Є. Petsche Co.









Color-Coded Adapters

Color-Coded Adapters Introduction

Delta Electronics (www.deltarf.com) is a world-class provider of reliable RF, microwave, and millimeter-wave interconnect solutions. As the world increases its need for wireless radio-frequency bandwidth at higher and higher frequencies, for such things as 5G smart phones and radars in self-driving cars, Delta Electronics is ready with a wide range of low-loss, coaxial connectors. And they now offer color-coded coaxial connector adapters to mate different coaxial connectors. The adapters reach as high as 110 GHz in frequency, with each color identifying a type of connector/adapter and its frequency range.

Coaxial interconnections from Delta Electronics support many markets, including communications, industrial, medical, military, test and measurement, and transportation applications. They are built with the highest quality, produced at a vertically integrated global headquarters in Beverly, MA and the company's world-class manufacturing facility in Nanjing, China. Along with a strategic partner in Taiwan, lean manufacturing methods deliver outstanding performance for all interconnection products from Delta Electronics, with the latest coaxial adapters using color to make coaxial mating simpler and safer even at millimeter-wave frequencies.

The color-coded adapters work with small connectors: 1.0-, 1.85-, 2.4-, and 2.92-mm coaxial connectors. By matching an adapter's color to its connector, the right interconnections are made. The wear and tear on the connector is minimized, resulting in less signal degradation in a high-frequency interconnection such as on test equipment. The life of each millimeter-wave connector is extended by proper connector/adapter mating.

This brochure highlights the color-coded coaxial adapters and the difference that color can make when setting up and running a high-frequency test setup with multiple coaxial interconnections. Let color be your guide to smarter, more efficient measurements at millimeter-wave frequencies.





Color-Coded Adapters Technical Information

2.4mm GREEN DC-50 GHz DELTA DC-40 GHz 1.0mm WHITE

Torque Values

Per the IEC 61169 definitions for each interface the recommended mating torques are as follows:

1.85 mm: .8 Nm to 1.1 Nm 2.92 mm: .8 Nm to 1.1 Nm 2.4 mm: .8 Nm to 1.1 Nm 1.0 mm: .3 Nm to .41 Nm

Construction

Housing & Coupling Nut:

Stainless Steel, Passivated

Contact: Beryllium Copper

(BeCu) Gold plated

Dielectric: Noryl EN265,

Polyphenylene Oxide (PPO), Per ASTMD - 4349 PPE220B50541

F13 G1106

Locking Ring: Beryllium Copper

(BeCu)

Bushing: Brass Per ASTM B16,

C36000 Alloy

- Coaxial adapters are critical components used to make reliable transitions from one connector interface to another.
- ▶ Delta's adapters are designed in accordance with IEC 61169-35 (2.92mm), IEC 61169-40 (2.4mm), IEC 61169-32 (1.85mm) & IEC 61169-31 (1.0mm).
- ► Each adapter has a critical visual indicator, a color code, which matches the IEEE working group color scheme.
- ► The color code promotes proper mating and quick identification.
- ▶ Delta's color-coded adapters will prevent damage and save both cost and time.
- ▶ Delta's franchised distributors stock 2.92 mm, 2.4 mm and 1.85 mm within series adapters.

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2.4mm DC-50 GHz



Color-Coded Adapters Index

Within Series Adapters

1.85mm - Blue -----

Between Series Adapters

1.0mm - 1.85mm - White/Blue--

Page 6



8127000K001-803-C

1.85mm MALE To 1.85mm MALE



1.85mm DC-67GHz

8128000K001-803-C

1.85mm FEMALE To 1.85mm FEMALE



8134000K001-802-C

1.85mm MALE To 1.85mm FEMALE

2.4mm - Green ------

Page 7



8027000K001-803-C

2.4mm MALE To 2.4mm MALE



8028000K001-803-C

2.4mm FEMALE To 2.4mm FEMALE



8034000K001-803-C

2.4mm MALE To 2.4mm FEMALE

2.92mm - Yellow -----

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7927000K001-805-C

2.92mm MALE To 2.92mm MALE



7928000K001-803-C

2.92mm FEMALE To 2.92mm FEMALE



7934000K001-802-C

2.92mm MALE To 2.92mm FEMALE



2234000K001-835-C

1.0mm MALE TO 1.85mm FEMALE



2234000K001-836-C

1.0mm FEMALE TO 1.85mm MALE

1.85mm - 2.92mm - Blue/Yellow-- Pages 10-11



2227000K001-815-C

1.85mm MALE To 2.92mm MALE



2228000K001-820-C

1.85mm FEMALE To 2.92mm FEMALE



2234000K001-833-C

1.85mm FEMALE TO 2.92mm MALE



2234000K001-834-C

1.85mm MALE TO 2.92mm FEMALE





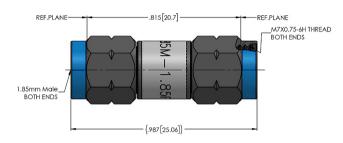
Within Series Adapters

1.85mm Color-Coded Adapters

8127000K001-803-C

1.85mm Male To 1.85mm Male

All Dimensions In Brackets Are In MM And Are For Reference Purpose Only

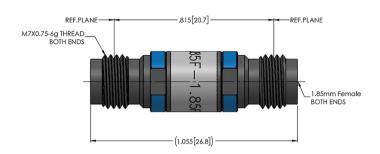




8128000K001-803-C

1.85mm Female To 1.85mm Female

All Dimensions In Brackets Are In MM And Are For Reference Purpose Only





8134000K001-802-C

1.85mm Female To 1.85mm Male







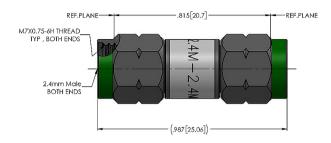
Within Series Adapters

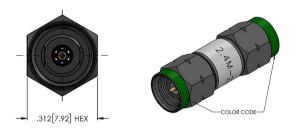
2.4mm Color-Coded Adapters

8027000K001-803-C

2.4mm Male To 2.4mm Male

All Dimensions In Brackets Are In MM And Are For Reference Purpose Only

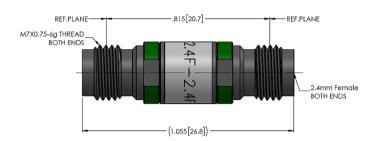




8028000K001-803-C

2.4mm Female To 2.4mm Female

All Dimensions In Brackets Are In MM And Are For Reference Purpose Only

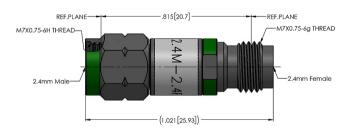


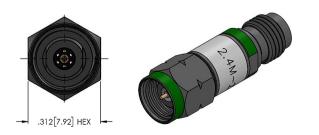




8034000K001-803-C

2.4mm Male To 2.4mm Female









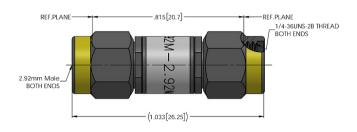
Within Series Adapters

2.92mm Color-Coded Adapters

7927000K001-805-C

2.92mm Male To 2.92mm Male

All Dimensions In Brackets Are In MM And Are For Reference Purpose Only

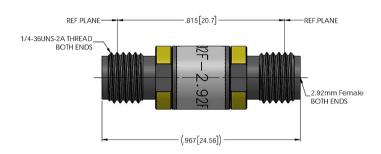


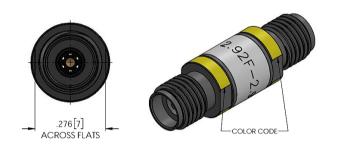


7928000K001-803-C

2.92mm Female To 2.92mm Female

All Dimensions In Brackets Are In MM And Are For Reference Purpose Only





7934000K001-802-C

2.92mm Female To 2.92mm Male







Between Series Adapters

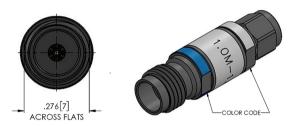
1.85mm to 1.0mm Color-Coded Adapters

2234000K001-835-C

1.85mm Female To 1.0mm Male

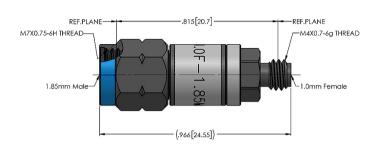
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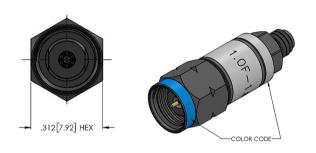




2234000K001-836-C

1.85mm Male To 1.0mm Female











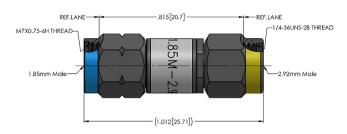
Between Series Adapters

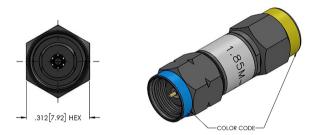
1.85mm to 2.92 Color-Coded Adapters

2227000K001-815-C

1.85mm Male To 2.92mm Male

All Dimensions In Brackets Are In MM And Are For Reference Purpose Only

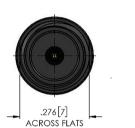




2228000K001-820-C

1.85mm Female To 2.92mm Female













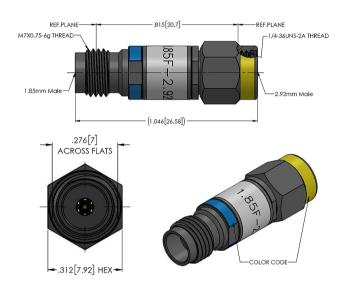
Between Series Adapters

1.85mm to 2.92 Color-Coded Adapters

2234000K001-833-C

1.85mm Female To 2.92mm Male

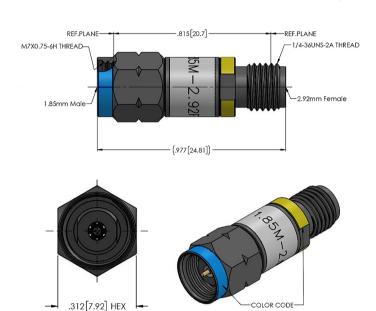
All Dimensions In Brackets Are In MM And Are For Reference Purpose Only

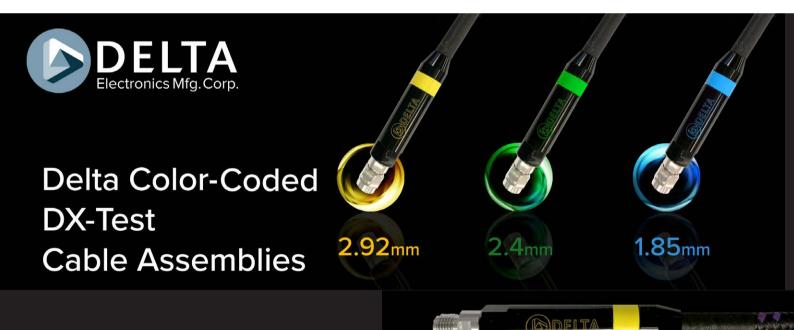


2234000K001-834-C

1.85mm Male To 2.92mm Female

All Dimensions In Brackets Are In MM And Are For Reference Purpose Only





Order your custom, made to order, color-coded, high frequency test cable through Delta directly to go with your color-coded adapters.

Available in 1.0mm, 1.85mm, 2.4mm, and 2.92mm interfaces.

Contact
Delta Electronics
sales@deltarf.com
(978)927-1060

What's your coaxial engineering challenge?

Try DELTA's Cost Effective RF/Microwave/mmWave Customizable Gang Mounts, Interconnects & Cable Assemblies.

