Upgrade Your Testing Workflow With Delta’s High Performance, Color Coded Adapters
Introducing Delta’s New Color Coded Adapters

- Optimize Your Testing Workflow
- Train Your Team More Efficiently
- Organize Your Testing Workspace
- Reduce Damage From Mismatching

This product only available through these authorized Delta distributors.
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.
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.
### Color Coded Adapters Index

#### Within Series Adapters

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Color</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85mm</td>
<td>Blue</td>
<td>8127000K001-803-C</td>
<td>1.85mm MALE To 1.85mm MALE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8128000K001-803-C</td>
<td>1.85mm FEMALE To 1.85mm FEMALE</td>
</tr>
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<td></td>
<td></td>
<td>8134000K001-802-C</td>
<td>1.85mm MALE To 1.85mm FEMALE</td>
</tr>
<tr>
<td>2.4mm</td>
<td>Green</td>
<td>8027000K001-803-C</td>
<td>2.4mm MALE To 2.4mm MALE</td>
</tr>
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<td></td>
<td>8028000K001-803-C</td>
<td>2.4mm FEMALE To 2.4mm FEMALE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8034000K001-803-C</td>
<td>2.4mm MALE To 2.4mm FEMALE</td>
</tr>
<tr>
<td>2.92mm</td>
<td>Yellow</td>
<td>7927000K001-805-C</td>
<td>2.92mm MALE To 2.92mm MALE</td>
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<tr>
<td></td>
<td></td>
<td>7928000K001-803-C</td>
<td>2.92mm FEMALE To 2.92mm FEMALE</td>
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<td></td>
<td></td>
<td>7934000K001-802-C</td>
<td>2.92mm MALE To 2.92mm FEMALE</td>
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#### Between Series Adapters

<table>
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<tr>
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<th>Color</th>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1.0mm</td>
<td>White/Blue</td>
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<td>1.0mm MALE TO 1.85mm FEMALE</td>
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<tr>
<td></td>
<td></td>
<td>2234000K001-836-C</td>
<td>1.0mm FEMALE TO 1.85mm MALE</td>
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<tr>
<td>1.85mm</td>
<td>Blue/Yellow</td>
<td>2227000K001-815-C</td>
<td>1.85mm MALE To 2.92mm MALE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2228000K001-820-C</td>
<td>1.85mm FEMALE To 2.92mm FEMALE</td>
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<tr>
<td></td>
<td></td>
<td>2234000K001-833-C</td>
<td>1.85mm FEMALE TO 2.92mm MALE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2234000K001-834-C</td>
<td>1.85mm MALE TO 2.92mm FEMALE</td>
</tr>
<tr>
<td>2.4mm</td>
<td></td>
<td>2227000K001-815-C</td>
<td>2.4mm MALE To 2.92mm MALE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2228000K001-820-C</td>
<td>2.4mm FEMALE To 2.92mm FEMALE</td>
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<td>2234000K001-833-C</td>
<td>2.4mm FEMALE TO 2.92mm MALE</td>
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<td>2234000K001-834-C</td>
<td>2.4mm MALE TO 2.92mm FEMALE</td>
</tr>
</tbody>
</table>

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5 Delta Electronics Mfg Corp. deltarf.com 978-927-1060 sales@deltarf.com
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**

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

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**Electrical Specifications**

- **Frequency Range:** DC-65 GHz
- **VSWR:** 1.35 Max @ 65 GHz
- **Insertion Loss:** 0.50dB Max 65 GHz
- **Working Voltage @ Sea Level:** 150 Vrms
- **DWV@Sea Level:** 500 Vrms
- **Insulation Resistance:** 5000MΩ

**Mechanical Specifications**

- **Durability:** 500 Cycles Min
- **Coupling Nut Torque:** 7-10 In. LBS [0.8-1.1 N.m]
- **Contact Captivation:** ≥4.5 LBS [20N]

**Environmental Specifications**

- **Temp Range:** -55° to +125°C

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6 The Delta Difference - Delivering Interconnect Solutions That Make A Difference
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
All Dimensions In Brackets Are In MM And Are For Reference Purpose Only
**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  
All Dimensions In Brackets Are In MM And Are For Reference Purpose Only

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**Electrical Specifications**  
- **Frequency Range**: DC-40 GHz  
- **VSWR**: 1.25 Max @ 40 GHz  
- **Insertion Loss**: 0.38dB Max 40 GHz  
- **Working Voltage @ Sea Level**: 250 Vrms  
- **DWV@Sea Level**: 750 Vrms  
- **Insulation Resistance**: 5000MΩ  

**Mechanical Specifications**  
- **Durability**: 500 Cycles Min  
- **Coupling Nut Torque**: 7-10 In. LBS [0.8-1.1 N.m]  
- **Contact Captivation**: ≥4.5 LBS [20N]  

**Environmental Specifications**  
- **Temp Range**: -55° to +125°C
1.85mm to 1.0mm Color Coded Adapters

**2234000K001-835-C**

1.85mm Female To 1.0mm Male

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

**2234000K001-836-C**

1.85mm Male To 1.0mm Female

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

**Electrical Specifications**
- Frequency Range: DC-67 GHz
- VSWR: 1.35 Max @ 67 GHz
- Insertion Loss: 0.50dB Max @ 67 GHz
- Working Voltage @ Sea Level: 150 Vrms
- DWV@Sea Level: 500 Vrms
- Insulation Resistance: 5000MΩ

**Mechanical Specifications**
- Durability: 500 Cycles Min
- Coupling Nut Torque: 2.6-3.6 In. LBS [0.3-0.41 N.m]
- Contact Captivation: ≥2.25 LBS [10N]

**Environmental Specifications**
- Temp Range: -55° to +125°C

1.0mm - WHITE & 1.85mm BLUE Within Series Adapters DC-67 GHz
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

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

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**Electrical Specifications**

- **Frequency Range**: DC-40 GHz
- **VSWR**: 1.25 Max @ 40 GHz
- **Insertion Loss**: 0.38dB Max 40 GHz
- **Working Voltage @ Sea Level**: 150 Vrms
- **D.W.V @ Sea Level**: 500 Vrms
- **Insulation Resistance**: 5000MΩ

**Mechanical Specifications**

- **Durability**: 500 Cycles Min
- **Coupling Nut Torque**: 7-10 In. LBS [0.8-1.1 N.m]
- **Contact Captivation**: ≥4.5 LBS [20N]

**Environmental Specifications**

- **Temp Range**: -55° to +125°C
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

Delta Color Coded DX-Test Cable Assemblies

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
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(978)927-1060
What’s your coaxial engineering challenge?

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