


Product: [1865A](#) 

Serial Digital Coax, Sub-miniature, #25 Stranded BC, CMR



### Product Description

25 AWG stranded (19x37) .021" bare copper conductor, gas-injected foam HDPE insulation, Duofoil®; tinned copper braid shield (95% coverage), PVC jacket.

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

| AWG | Stranding | Material         | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 25  | 19x37     | BC - Bare Copper | 0.021 in         | 1           |

|                  |   |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

##### Insulation

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.094 in         |

|              |              |
|--------------|--------------|
| Table Notes: | Gas Injected |
|--------------|--------------|

##### Outer Shield Material

| Type  | Layer | Material           | Material Trade Name | Coverage [%] |
|-------|-------|--------------------|---------------------|--------------|
| Tape  | 1     | Alum / Poly / Alum | Duofoil®            | 100%         |
| Braid | 2     | Tinned Copper (TC) |                     | 95%          |

##### Outer Jacket Material

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.15 in          |

#### Electrical Characteristics

##### Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR | Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|-----------------------|----------------------|--------------------------|---------------------|
| 27.4 Ohm/1000ft       | 27.4 Ohm/1000ft       |                      | 5.4 Ohm/1000ft           | 5.4 Ohm/1000ft      |

##### Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 16.5 pF/ft                           |

##### Inductance

| Nominal Inductance |
|--------------------|
| 0.093 µH/ft        |

##### Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm                           |

##### Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
|                 |                     |

|              |       |
|--------------|-------|
| 5-850 MHz    | 21 dB |
| 850-3000 MHz | 18 dB |

#### High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz           | 0.47 dB/100ft       |
| 3.58 MHz        | 1 dB/100ft          |
| 5 MHz           | 1.1 dB/100ft        |
| 7 MHz           | 1.3 dB/100ft        |
| 10 MHz          | 1.6 dB/100ft        |
| 67.5 MHz        | 3.6 dB/100ft        |
| 71.5 MHz        | 3.7 dB/100ft        |
| 88.5 MHz        | 4.1 dB/100ft        |
| 100 MHz         | 4.4 dB/100ft        |
| 135 MHz         | 5 dB/100ft          |
| 143 MHz         | 5.1 dB/100ft        |
| 180 MHz         | 5.8 dB/100ft        |
| 270 MHz         | 7.1 dB/100ft        |
| 360 MHz         | 8.2 dB/100ft        |
| 540 MHz         | 10.1 dB/100ft       |
| 720 MHz         | 11.8 dB/100ft       |
| 750 MHz         | 12 dB/100ft         |
| 1000 MHz        | 13.9 dB/100ft       |
| 1500 MHz        | 17 dB/100ft         |
| 2000 MHz        | 19.6 dB/100ft       |
| 2250 MHz        | 20.8 dB/100ft       |
| 3000 MHz        | 24 dB/100ft         |

#### Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.24 ns/ft    | 82%                                      |

#### Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

#### Temperature Range

|                       |                |
|-----------------------|----------------|
| UL Temp Rating:       | 75°C           |
| Operating Temp Range: | -30°C To +75°C |

#### Mechanical Characteristics

|                             |               |
|-----------------------------|---------------|
| Bulk Cable Weight:          | 14 lbs/1000ft |
| Max. Pull Tension:          | 27 lbs        |
| Min Bend Radius/Minor Axis: | 1.5 in        |

#### Standards

|                       |                  |
|-----------------------|------------------|
| NEC/(UL) Compliance:  | CMR              |
| CEC/C(UL) Compliance: | CMG              |
| RG Type:              | Mini 59/U Type   |
| Series Type:          | Sub-miniature 59 |

#### Applicable Environmental and Other Programs

|                                    |                               |
|------------------------------------|-------------------------------|
| Environmental Space:               | Indoor - Riser                |
| EU Directive 2000/53/EC (ELV):     | Yes                           |
| EU Directive 2003/11/EC (BFR):     | Yes                           |
| EU Directive 2011/65/EU (ROHS II): | Yes                           |
| EU Directive 2012/19/EU (WEEE):    | Yes                           |
| EU Directive 2015/863/EU:          | Yes                           |
| EU Directive Compliance:           | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                        | Yes                           |

|                                       |            |
|---------------------------------------|------------|
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01 |
| MII Order #39 (China RoHS):           | Yes        |

## Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

## Flammability, LSOH, Toxicity Testing

|                    |                       |
|--------------------|-----------------------|
| UL Flammability:   | UL1666 Vertical Shaft |
| UL voltage rating: | 300 V RMS             |

## Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

## Part Number

### Variants

| Item #        | Color       | Putup Type | Length   | UPC          |
|---------------|-------------|------------|----------|--------------|
| 1865A 0101000 | Black       | Reel       | 1,000 ft | 612825358435 |
| 1865A 0061000 | Blue, Light | Reel       | 1,000 ft | 612825356752 |
| 1865A 0011000 | Brown       | Reel       | 1,000 ft | 612825356790 |
| 1865A 0081000 | Gray        | Reel       | 1,000 ft | 612825356745 |
| 1865A N3U1000 | Green, Mil  | Reel       | 1,000 ft | 612825356806 |
| 1865A 0031000 | Orange      | Reel       | 1,000 ft | 612825356776 |
| 1865A 0021000 | Red         | Reel       | 1,000 ft | 612825356783 |
| 1865A 0071000 | Violet      | Reel       | 1,000 ft | 612825358428 |
| 1865A 0091000 | White       | Reel       | 1,000 ft | 612825358442 |
| 1865A 0041000 | Yellow      | Reel       | 1,000 ft | 612825356769 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.249 Revision Date: 04-28-2020 |
|----------------------|--|

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)  
Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)