


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 |
|----------------------|--|

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