

**Product:** [8279](#) 

Precision Video Coax, Miniature, #23 Stranded BC, 95% TC Braid



### Product Description

23 AWG stranded (7x32) .023" bare compacted copper conductor, polyethylene insulation, tinned copper braid shield (95% coverage), polyethylene jacket.

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

| AWG | Stranding | Material                       | Nominal Diameter | No. of Coax |
|-----|-----------|--------------------------------|------------------|-------------|
| 23  | 7x32      | BC-C - Bare Copper (Compacted) | 0.023 in         | 1           |

Conductor Count:

##### Insulation

| Material          | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.146 in         |

##### Outer Shield Material

| Type  | Material           | Coverage [%] |
|-------|--------------------|--------------|
| Braid | Tinned Copper (TC) | 95%          |

##### Outer Jacket Material

| Material          | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.22 in          |

#### Electrical Characteristics

##### Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--|--------------------------|---------------------|
| 19.1 Ohm/1000ft       | 19.1 Ohm/1000ft                            | 4.5 Ohm/1000ft           | 4.5 Ohm/1000ft      |

##### Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 21 pF/ft                             |

##### Inductance

| Nominal Inductance |
|--------------------|
| 0.118 µH/ft        |

##### Impedance

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

##### Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 5-216 MHz       | 27 dB               |
| 217-850 MHz     | 21 dB               |

### High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz           | 0.4 dB/100ft        |
| 3.6 MHz         | 0.6 dB/100ft        |
| 10 MHz          | 1.2 dB/100ft        |
| 71.5 MHz        | 3.3 dB/100ft        |
| 135 MHz         | 4.7 dB/100ft        |
| 270 MHz         | 6.8 dB/100ft        |
| 360 MHz         | 8 dB/100ft          |
| 540 MHz         | 9.9 dB/100ft        |
| 720 MHz         | 11.6 dB/100ft       |
| 750 MHz         | 11.9 dB/100ft       |
| 1000 MHz        | 13.8 dB/100ft       |

### Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.54 ns/ft    | 66%                                      |

### Voltage

| Non-UL Voltage Rating |
|-----------------------|
| 2300 V RMS            |

### Temperature Range

|                       |                |
|-----------------------|----------------|
| Non-UL Temp Rating:   | 80°C           |
| Operating Temp Range: | -55°C To +80°C |

### Mechanical Characteristics

|                             |               |
|-----------------------------|---------------|
| Bulk Cable Weight:          | 26 lbs/1000ft |
| Max. Pull Tension:          | 45 lbs        |
| Min Bend Radius/Minor Axis: | 2.5 in        |

### Standards

|              |         |
|--------------|---------|
| RG Type:     | Mini 59 |
| Series Type: | 59      |

### Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| Environmental Space:                  | Outdoor - Direct Burial       |
| 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:                           | No                            |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

### Suitability

|                        |  |
|------------------------|--|
| Suitability - Aerial:  | Yes - When supported by messenger wire |
| Suitability - Burial:  | Yes                                    |
| Suitability - Indoor:  | Yes                                    |
| Suitability - Outdoor: | Yes                                    |

### Plenum/Non-Plenum

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

### Part Number

### Variants

| Item # | Color | Putup Type | Length | UPC |
|--------|-------|------------|--------|-----|
|--------|-------|------------|--------|-----|

|              |       |      |          |              |
|--------------|-------|------|----------|--------------|
| 8279 010500  | Black | Reel | 500 ft   | 612825358077 |
| 8279 0101000 | Black | Reel | 1,000 ft | 612825355892 |

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

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.232 Revision Date: 06-24-2020 |
|----------------------|--|

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