

**Product: 8263** ☑





# **Product Description**

23 AWG solid bare copper-covered steel conductor, polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

# **Technical Specifications**

# **Physical Characteristics (Overall)**

# Conductor AWG Stranding Material Nominal Diameter No. of Coax 23 Solid BCCS - Bare Copper Covered Steel 0.023 in 1 Conductor Count: 1

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

#### **Outer Shield**

| Type  | Material         | Coverage [%] |
|-------|------------------|--------------|
| Braid | Bare Copper (BC) | 95%          |

# Outer Jacket

| Material                                     | Nominal Diameter |
|--|------------------|
| PVC - Polyvinyl Chloride (Non-Contaminating) | 0.241 in         |

# **Electrical Characteristics**

# Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--|--------------------------|---------------------|
| 49 Ohm/1000ft         | 49 Ohm/1000ft                              | 2.6 Ohm/1000ft           | 2.6 Ohm/1000ft      |

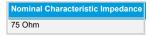
### Capacitance



# Inductance

Nominal Inductance

# Impedance



#### High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz           | 0.6 dB/100ft        |
| 10 MHz          | 1.1 dB/100ft        |

| 50 MHz   | 2.4 dB/100ft  |
|----------|---------------|
| 100 MHz  | 3.4 dB/100ft  |
| 200 MHz  | 4.9 dB/100ft  |
| 400 MHz  | 7 dB/100ft    |
| 700 MHz  | 9.7 dB/100ft  |
| 900 MHz  | 11.1 dB/100ft |
| 1000 MHz | 12 dB/100ft   |

### Delay

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

### Voltage

| Non-UL Voltage Rating | UL Voltage Rating |
|-----------------------|-------------------|
| 1700 V RMS            | 150 V RMS         |

# **Temperature Range**

| Non-UL Temp Rating:          | 60°C           |
|------------------------------|----------------|
| Operating Temperature Range: | -40°C To +60°C |

# **Mechanical Characteristics**

| Bulk Cable Weight:           | 36 lbs/1000ft |
|------------------------------|---------------|
| Max. Pull Tension:           | 78 lbs        |
| Min. Bend Radius/Minor Axis: | 2.5 in        |

### **Standards**

| NEC/(UL) Compliance:     | CMX                  |
|--------------------------|----------------------|
| CEC/C(UL) Compliance:    | CMX                  |
| UL AWM Style Compliance: | AWM 1354 (30 V 60°C) |
| CPR Euroclass:           | Eca                  |
| RG Type:                 | 59B                  |
| Series Type:             | 59                   |
| Military Compliance:     | Mil-C-17D            |

# **Applicable Environmental and Other Programs**

| Environmental Space:                         | Indoor/Outdoor                |
|--|-------------------------------|
| EU Directive 2000/53/EC (ELV):               | Yes                           |
| EU Directive 2003/11/EC (BFR):               | Yes                           |
| EU Directive 2011/65/EU (RoHS 2):            | Yes                           |
| EU Directive 2012/19/EU (WEEE):              | Yes                           |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes                           |
| EU Directive Compliance:                     | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                                  | Yes                           |
| MII Order #39 (China RoHS):                  | Yes                           |

# Suitability

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

# Flammability, LS0H, Toxicity Testing

| UL Flammability:   | VW-1          |
|--------------------|---------------|
| IEC Flammability:  | IEC 60332-1-2 |
| UL voltage rating: | 150 V RMS     |

### Plenum/Non-Plenum

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

# **Related Part Numbers**

# Variants

| Item #        | Color | Put-Up Type | Length   | UPC          |
|---------------|-------|-------------|----------|--------------|
| 8263 010U500  | Black | UnReel      | 500 ft   | 612825197515 |
| 8263 0101000  | Black | Reel        | 1,000 ft | 612825356004 |
| 8263 010U1000 | Black | UnReel      | 1,000 ft | 612825358718 |

Footnote: C - CRATE REEL PUT-UP.

### History

| Update and Revision: | Revision Number: 0.413 Revision Date: 02-03-2025 |  |  |  |
|----------------------|--|--|--|--|

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