



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: 1

##### Insulation

Material	Nominal Diameter
PE - Polyethylene	0.146 in

##### Outer Shield

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

##### Outer Jacket

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 $\mu$ H/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 Temperature 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 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:	No
MIL 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
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## Related Part Numbers

## Variants

Item #	Color	Put-Up Type	Length	UPC
8279 010500	Black	Reel	500 ft	612825358077

8279 0101000	Black	Reel	1,000 ft	612825355892
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Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.321 Revision Date: 11-09-2022
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