



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
---------------	----

## 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
--------------	-------	------	----------	--------------

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

**History**

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

© 2023 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.