



Part Number: 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

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
23	7x32	BCC - Bare Compacted Copper	0.023 in	1
Total Number of Conductors:				1

Insulation:

Material	Nominal Diameter
PE - Polyethylene	0.146 in

Outershield 1:

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

Outerjacket 1:

Material	Nominal Diameter
PE - Polyethylene	0.22 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
19.1 Ohm/1000ft	4.5 Ohm/1000ft

Capacitance:

Nom. Capacitance Conductor to Shield	
21 pF/ft	
Other Electrical Characteristic 1:	Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.
Other Electrical Characteristic 2:	Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.
Sweep Testing:	100% Sweep tested 5MHz to 850MHz.

Impedance:

Nominal Characteristic Impedance
75 Ohm

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 %

High Freq:

Min. RL (Return Loss) [dB]
27 dB
21 dB

Inductance:

Nominal Inductance
0.118 μ H/ft

Voltage:

Non-UL Voltage Rating

2300V RMS

Use

Suitability - Aerial:	Yes - When supported by a messenger wire
Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Max Recommended Pulling Tension:	45 lbs

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	2.5 in
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Part Number

Plenum (Y/N):	No
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Standards

CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	Mini 59/U
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No

Product Variants

Part Number	Color	Put-Up Type	Length
8279	BLACK	Reel	1000 ft
8279	BLACK	Reel	305 m
8279 0101000	BLACK	Reel	1000 ft
8279	BLACK	Reel	500 ft
8279	BLACK	Reel	152 m
8279 010500	BLACK	Reel	500 ft
8279			
8279			
8279			

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