



Product Description

Precision Video Coax, 20 AWG solid .031" bare copper conductor, polyethylene insulation, tinned copper/bare copper double braid shield (95% coverage), polyethylene jacket.

Technical Specifications

Product Overview

Environmental Space:	Outdoor - Aerial
Suitable Applications:	Analog Video

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BC - Bare Copper	0.031 in	1
Condu	ctor Count:		1	
AWG	Size:		20	

Insulation

Material	Nominal Diamete
PE - Polyethylene	0.198 in

Outer Shield Material

Туре	Layer	Material	Coverage [%]
Braid	1	TC - Tinned Copper	95 %
Braid	2	TC - Tinned Copper	95 %

Outer Jacket Material

Material	Nominal Diameter
PE - Polyethylene	0.305 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
9.9 Ohm/1000ft	1.1 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
21 pF/ft

Inductance

Nominal Inductance 0.131 µH/ft

Impedance

Nominal Characteristic Impedance 75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 MHz - 216 MHz	27 dB
216 MHz - 850 MHz	23 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
3.6 MHz	0.5 dB/100ft
10 MHz	0.8 dB/100ft
71.5 MHz	2.1 dB/100ft
135 MHz	3 dB/100ft
270 MHz	4.3 dB/100ft
360 MHz	5.1 dB/100ft
540 MHz	6.3 dB/100ft
720 MHz	7.4 dB/100ft
750 MHz	7.6 dB/100ft
1000 MHz	9.2 dB/100ft

Delay

 Nominal Delay
 Nominal Velocity of Propagation (VP) [%]

 1.54 ns/ft
 66 %

Voltage

Non-UL Voltage Rating

2900V RMS

Electrical Characteristics Notes:

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	69 lbs/1000ft
Max Recommended Pulling Tension:	168 lbs
Min Bend Radius/Minor Axis:	3 in

Standards RG Type:

RG-59/U Type

Return Loss: Fixed bridge and termination

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only
Suitability - Sunlight Resistance:	No

Part Number

Plenum (Y/N): No		
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Plenum Number:			88281	
Variants				
ltem #	Color	Footnote		
8281 0101000	BLACK	С		
8281 010500	BLACK	С		
8281 0105000	BLACK	СZ		
8281 0061000	BLUE, LIGHT	С	1	
8281 006500	BLUE, LIGHT			
8281 0051000	GREEN, DARK	С		
8281 005500	GREEN, DARK	С		
8281 0031000	ORANGE	С		
8281 0021000	RED	С		
8281 002500	RED	С		
8281 0091000	WHITE	С		
8281 0041000	YELLOW	С		
8281 004500	YELLOW			
Footnote:			C - CRATE REEL PUT-UP.	
Footnote:			Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHO	

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