



**Product:** [8281](#) 

75 Ohm Analog Video Coax, RG-59, 20 AWG Solid BC, Double 95% TC Braid, PE Jkt

### Product Description

75 Ohm Analog Video Coax, RG-59, 20 AWG Solid Bare Copper Conductor , PE Insulation, Double 95% Tinned Copper Braid Shield, PE Jacket

### Technical Specifications

#### Product Overview

Suitable Applications:	Standard analog video
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#### Construction Details

RG Type:	59
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#### Conductor

Size	Stranding	Nom. Diameter	Material
20 AWG	Solid	0.031 in	BC - Bare Copper

#### Insulation

Material	Nom. Insulation Diameter
PE - Polyethylene	0.198 in (5.03 mm)

#### Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Braid	Tinned Copper (TC)	95%
2	Braid	Tinned Copper (TC)	95%

#### Outer Jacket

Material	Nom. Diameter
PE - Polyethylene	0.305 in (7.75 mm)

Overall Cable Diameter (Nominal):	0.305 in (7.75 mm)
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### Electrical Characteristics

#### Return Loss (RL)

Frequency	Min. Return Loss
5 - 216 MHz	27 dB
216 - 850 MHz	23 dB

#### Attenuation

Frequency	Nom. Attenuation
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	3.0 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

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
10.8 Ohm/1000ft (35.4 Ohm/km)	1.1 Ohm/1000ft (3.6 Ohm/km)	21 pF/ft (69 pF/m)	75 Ohm	66%

#### Voltage

Voltage Rating
2900 V

## Mechanical Characteristics

#### Temperature

Operating
-55°C to +75°C

#### Bend Radius

Installation Min.
3.1 in

Max. Pull Tension:	134 lbs (60.8 kg)
Bulk Cable Weight:	69 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Outdoor - Aerial, Indoor
Sustainability:	CA Prop 65
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	88281

## History

Update and Revision:	Revision Number: 0.333 Revision Date: 12-15-2021
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#### Variants

Item #	Color	Putup Type	Length	UPC
8281 010500	Black	Reel	500 ft	612825358626
8281 0101000	Black	Reel	1,000 ft	612825358091
8281 0105000	Black	Reel	5,000 ft	612825355809
8281 006500	Blue, Light	Reel	500 ft	612825355816
8281 0061000	Blue, Light	Reel	1,000 ft	612825355724
8281 005500	Green, Dark	Reel	500 ft	612825355823
8281 0051000	Green, Dark	Reel	1,000 ft	612825355830
8281 0031000	Orange	Reel	1,000 ft	612825355861
8281 002500	Red	Reel	500 ft	612825355878
8281 0021000	Red	Reel	1,000 ft	612825355885
8281 0091000	White	Reel	1,000 ft	612825358725
8281 004500	Yellow	Reel	500 ft	612825355847
8281 0041000	Yellow	Reel	1,000 ft	612825355854

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