



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



75 Ohm Analog Video Coax, RG-59, 21 AWG Str BC, Double 95% TC Braid, PVC Jkt. Flexible

### Product Description

75 Ohm Analog Video Coax, RG-59, 21 AWG (7x29) Bare Copper (Compacted) Conductor , PE Insulation, Double 95% Tinned Copper Braid Shield, PVC Jacket, Flexible

### 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
21 AWG	7x29	0.032 in	BC-C - Bare Copper (Compacted)

#### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.193 in (4.90 mm)	White

#### 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
PVC - Polyvinyl Chloride	0.304 in (7.72 mm)

Overall Cable Diameter (Nominal):	0.304 in (7.72 mm)
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#### Electrical Characteristics

##### Return Loss (RL)

Frequency	Min. Return Loss
2 - 216 MHz	27 dB
217 - 830 MHz	23 dB

##### Attenuation

Frequency	Nom. Attenuation
1 MHz	0.3 dB/100ft
3.6 MHz	0.5 dB/100ft
10 MHz	0.9 dB/100ft
71.5 MHz	2.5 dB/100ft
135 MHz	3.6 dB/100ft
270 MHz	5.1 dB/100ft
360 MHz	6 dB/100ft

540 MHz	7.4 dB/100ft
720 MHz	8.7 dB/100ft
750 MHz	8.9 dB/100ft
1000 MHz	10.5 dB/100ft

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
11.6 Ohm/1000ft	1.7 Ohm/1000ft (5.6 Ohm/km)	20.5 pF/ft (67.3 pF/m)	75 Ohm	66%

#### Voltage

Voltage Rating
2900 V

## Mechanical Characteristics

#### Temperature

Operating
-20°C to +60°C

#### Bend Radius

Installation Min.
3.0 in (76 mm)

Max. Pull Tension:	168 lbs (76.2 kg)
Bulk Cable Weight:	61 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
CPR Compliance:	CPR Euroclass: Eca
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## Product Notes

Notes:	Compacted copper combines the Impedance uniformity of solid conductors and the "nick-resistance" of stranded conductors.
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## History

Update and Revision:	Revision Number: 0.476 Revision Date: 04-13-2023
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## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC
8281F J5C500	Black, Vivid Matte	Reel	500 ft	612825355465
8281F J5C1000	Black, Vivid Matte	Reel	1,000 ft	612825355472
8281F G7X1000	Blue, Matte	Reel	1,000 ft	612825357988
8281F U901000	Gray, Matte	Reel	1,000 ft	612825203605
8281F G7W1000	Green, Matte	Reel	1,000 ft	612825355533
8281F G7V1000	Red, Matte	Reel	1,000 ft	612825355991

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