



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: 0.477 Revision Date: 04-29-2024
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Part Numbers

Variants

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

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