

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	Color Code
PE - Polyethylene	0.198 in (5.03 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
PE - Polyethylene	0.305 in (7.75 mm)

Overall Cable Diameter (Nominal): 0.305 in (7.75 mm)

Electrical Characteristics
Return Loss

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 +80°C

Bend Radius

Installation Min.
3.1 in (79 mm)

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

Standards and Compliance

Environmental Suitability:	Outdoor - Aerial, Indoor, Aerial - Black only, When supported by messenger wire
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: 0.507 Revision Date: 09-07-2025
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Part Numbers

Variants

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

Footnote:	C - CRATE REEL PUT-UP., Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.
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