



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
------------------------	-----------------------

Construction Details

RG Type:	59
----------	----

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)
-----------------------------------	--------------------

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
----------------------	--

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

© 2022 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.