



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

Product Overview					
Suitable Applications: Star		andard analog video			
Const	Construction Details				
RG Typ	RG Type: 59				
Conduc	Conductor				
Size	Stranding	Nom. Diameter	Material		
21 AW	G 7x29	0.032 in	BC-C - Bare Copper		
21 AW		0.032 in	BC-C - Bare Copper (		
		lom. Insulation D	iameter Color Code		
PE - Po	olyethylene 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 (

# **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



#### Bend Radius

# 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**

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

## **History**

Update and Revision:	Revision Number: 0.477 Revision Date: 04-29-2024

## **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	С
8281F G7X1000	Blue, Matte	Reel	1,000 ft	612825357988	С
8281F U901000	Gray, Matte	Reel	1,000 ft	612825203605	С
8281F G7W1000	Green, Matte	Reel	1,000 ft	612825355533	С
8281F G7V1000	Red, Matte	Reel	1,000 ft	612825355991	С

# © 2024 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.