



**Product:** [8241F](#) 

Analog Video, RG59, 22 AWG Stranded BC, BC Braid, PVC Jacket

### Product Description

RG-59/U, 22 AWG stranded (7x30) .030" bare copper conductor, foam polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
22	7x30	BC - Bare Copper	0.03 in	1

Conductor Count:

##### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.146 in

##### Outer Shield Material

Type	Material	Coverage [%]
Braid	Bare Copper (BC)	95%

##### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.241 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
15 Ohm/1000ft	2.6 Ohm/1000ft	2.6 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Shield
17.3 pF/ft

##### Inductance

Nominal Inductance
0.09 $\mu$ H/ft

##### Impedance

Nominal Characteristic Impedance
75 Ohm

##### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100ft
10 MHz	0.9 dB/100ft
50 MHz	2.1 dB/100ft

100 MHz	3 dB/100ft
200 MHz	4.5 dB/100ft
400 MHz	6.6 dB/100ft
700 MHz	8.9 dB/100ft
900 MHz	10.1 dB/100ft
1000 MHz	10.9 dB/100ft

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.3 ns/ft	78%

#### High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
400 MHz	7.4 dB/100ft

#### Voltage

Non-UL Voltage Rating
300 V RMS

#### Temperature Range

Non-UL Temp Rating:	60°C
Operating Temp Range:	-30°C To +60°C

#### Mechanical Characteristics

Bulk Cable Weight:	33 lbs/1000ft
Max. Pull Tension:	65 lbs
Min Bend Radius/Minor Axis:	2.5 in

#### Standards

CPR Euroclass:	Fca
RG Type:	59/U Type

#### Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Indoor:	Yes
-----------------------	-----

#### Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

#### Part Number

#### Variants

Item #	Color	Putup Type	Length	UPC
8241F J5C1000	Black, Vivid Matte	Reel	1,000 ft	612825355908
8241F G7X1000	Blue, Matte	Reel	1,000 ft	612825355922
8241F U901000	Gray, Matte	Reel	1,000 ft	612825197362
8241F G7W1000	Green, Matte	Reel	1,000 ft	612825355939
8241F G7V1000	Red, Matte	Reel	1,000 ft	612825355946
8241F G7Y1000	White, Matte	Reel	1,000 ft	612825355915
8241F G8M1000	Yellow, Matte	Reel	1,000 ft	612825357612

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

## History

Update and Revision:	Revision Number: 0.279 Revision Date: 09-30-2020
----------------------	--

© 2020 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.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Belden Wire & Cable:

[8241F G7V1000](#) [8241F J5C1000](#) [8241F U901000](#) [8241F G7Y1000](#) [8241F G8M1000](#) [8241F G7W1000](#) [8241F G7X1000](#)