



Product: <u>8241F</u> □

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 Nominal Diameter No. of Coax 7x30 BC - Bare Copper 0.03 in Conductor Count: Insulation Nominal Diameter PE - Polyethylene (Foam) 0.146 in **Outer Shield** Type Material Coverage [%] Braid Bare Copper (BC) 95% Outer Jacket 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 µH/ft Impedance Nominal Characteristic Impedance

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 Frequency

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 Temperature 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

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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up 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				REEL PUT-UP.

History

Update and Revision: Revision Number: 0.339 Revision Date: 02-03-2025

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