Belden



Product: 8241

75 Ohm Analog Video Coax, RG-59, 23 AWG Solid BCCS, 95% BC Braid, PVC Jkt, CM

Product Description

75 Ohm Analog Video Coax, RG-59, 23 AWG Solid Bare Copper Covered Steel Conductor , PE Insulation, 95% Bare Copper Braid Shield, PVC Jacket, CM

Technical Specifications

Product Overview

Suitable Applications:	Standard analog video

Construction Details

RG Type:	59

Conductor

Size	Stranding	Nom. Diameter	Material
23 AWG	Solid	0.023 in	BCCS - Bare Copper Covered Steel

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.146 in (3.71 mm)	White

Outer Shield

Outer Shield Type	Material	Coverage
Braid	Bare Copper (BC)	95%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.240 in (6.10 mm)

Overall Cable Diameter (Nominal):	0.240 in (6.10 mm)

Electrical Characteristics

Attenuation

Nom. Attenuation
[delete]
[delete]
[delete]
[delete]
[delete]
[delete]
[delete]
[delete]
[delete]

Power Rating

Frequency	Max. Power Rating
50 MHz	470 W
100 MHz	310 W
300 MHz	160 W

500 MHz	115 W
1,000 MHz	76 W

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
49 Ohm/1000ft	2.6 Ohm/1000ft (8.5 Ohm/km)	20.4 pF/ft (66.9 pF/m)	75 Ohm	66%

Voltage

UL Voltage Rating	Voltage Rating
300 V (CM), 30 V (UL AWM 1354)	1700 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-30°C to +75°C

Bend Radius

Installation Min.
2.4 in (61 mm)

Max. Pull Tension:	63 lbs (29 kg)
Bulk Cable Weight:	37 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL1685 UL Loading
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CM
AWM Compliance:	AWM 1354
CEC / C(UL) Compliance:	CM
European Directive Compliance:	EU CE Mark, 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)
Plenum Number:	88241, 82241

History

Update and Revision:	Revision Number: 0.499 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
8241 010100	Black	Reel	100 ft	612825358695	
8241 010500	Black	Reel	500 ft	612825355717	C
8241 010U500	Black	UnReel	500 ft	612825355977	
8241 0101000	Black	Reel	1,000 ft	612825356011	C
8241 010U1000	Black	UnReel	1,000 ft	612825358060	
8241 0102000	Black	Reel	2,000 ft	612825358701	C
8241 0105000	Black	Reel	5,000 ft	612825358640	C
8241 006U1000	Blue, Light	UnReel	1,000 ft	612825357629	
8241 005U1000	Green, Dark	UnReel	1,000 ft	612825358039	
8241 003U1000	Orange	UnReel	1,000 ft	612825355601	
8241 002U1000	Red	UnReel	1,000 ft	612825358046	
8241 009U1000	White	UnReel	1,000 ft	612825358688	
8241 004U1000	Yellow	UnReel	1,000 ft	612825355595	

Footnote:	C - CRATE REEL PUT-UP.

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