

# **BELDEN**Cable<sup>®</sup>

## 8241 Coax - Standard Analog Video Cable - 75 Ohm Coax

 For more information please call 1-800-Belden1
See Put-ups and Colors

#### **Description:**

23 AWG Solid .023" bare copper covered steel conductor, Polyethylene insulation, 95% bare copper braid shield, PVC jacket.

#### PHYSICAL CHARACTERISTICS:

### **CONDUCTOR:**

Number of Coax	1
Total Number of Conductors	1
RG Type	59/U
AWG	23
Stranding	Solid
Conductor Diameter	.023 in.
Conductor Material	BCCS - Bare Copper Covered Steel

## INSULATION:

Insulation Material	PE - Polyethylene
Insulation Diameter	.146 in.

#### **OUTER SHIELD:**

Outer Shield Type	Braid
Outer Shield Material	BC - Bare Copper
Outer Shield %Coverage	95 %

### **OUTER JACKET:**

Outer Jacket Material	PVC - Polyvinyl Chloride	

#### **OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.240 in.
--------------------------	----------

#### **MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	$-40^{\circ}$ C To $+75^{\circ}$ C
UL Temperature Rating	75°C
Non-UL Temperature Rating	75°C
Bulk Cable Weight	36 lbs/1000 ft.
Max. Recommended Pulling Tension	62 lbs.
Min. Bend Radius (Install)	2.5 in.

Page 1 of 4



# **BELDEN**Cable<sup>®</sup>

## 8241 Coax - Standard Analog Video Cable - 75 Ohm Coax

#### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification	CMX
CEC/C(UL) Specification	CMX
AWM Specification	UL Style 1354

#### FLAME TEST:

UL Flame Test UL1581 Vertical Tray (VW-1)

#### **SUITABILITY:**

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

Suitability - Outdoor Yes - Black Only

Suitability - Aerial Yes - Black Only, when supported by a messenger wire.

#### PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	88241, 82241

### **ELECTRICAL CHARACTERISTICS:**

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	.131 μH/ft
Nom. Capacitance Conductor to Shield	20.5 pF/ft
Nominal Velocity of Propagation	66 %
Nominal Delay	1.54 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	49.0 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	2.6 Ohms/1000 ft

### Nom. Attenuation:

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			.6
	10			1.1
	50			2.4
	100			3.4
	200			4.9
	400			7.0
	700			9.7
	900			11.1
	1000			12.0

Nom. Power Rating:



# **BELDEN**Cable<sup>\*\*</sup>

# 8241 Coax - Standard Analog Video Cable - 75 Ohm Coax

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Power Rating (W)
	50			470
	100			310
	300			160
	500			115
	1000			76

Max. Operating Voltage - UL 300 V RMS, 30 V RMS

Max. Operating Voltage - Non-UL 1700 V RMS

## **PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8241 002U1000	RG59/U TYPE COAX RED	U1000	39	RED	
8241 003U1000	RG59/U TYPE COAX ORG	U1000	39	ORANGE	
8241 004U1000	RG59/U TYPE COAX YEL	U1000	39	YELLOW	
8241 005U1000	RG59/U TYPE COAX DGRN	U1000	39	GREEN, DARK	
8241 006U1000	RG59/U TYPE COAX LBLU	U1000	39	BLUE, LIGHT	
8241 009U1000	RG59/U TYPE COAX WHT	U1000	39	WHITE	
8241 010100	RG59/U TYPE COAX BLK	100	4.4	BLACK	
8241 0101000	RG59/U TYPE COAX BLK	1000	40	BLACK	С
8241 0102000	RG59/U TYPE COAX BLK	2000	80	BLACK	С
8241 010500	RG59/U TYPE COAX BLK	500	20	BLACK	С
8241 0105000	RG59/U TYPE COAX BLK	5000	200	BLACK	С
8241 010U1000	RG59/U TYPE COAX BLK	U1000	39	BLACK	
8241 010U500	RG59/U TYPE COAX BLK	U500	20	BLACK	

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-22-2004

## Detailed Specifications & Technical Data



## **BELDEN**Cable

## 8241 Coax - Standard Analog Video Cable - 75 Ohm Coax

© 2003 Belden Wire & Cable Company All Rights Reserved.

Although Belden Electronics Division ("Belden") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein 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 "AS IS" 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.