# **Detailed Specifications & Technical Data**

### **METRIC MEASUREMENT VERSION**



### 8241 Coax - 75 Ohm Coax

For more Information please call

1-800-Belden1



# **General Description:**

23 AWG Solid .023" bare copper or bare copper-covered steel conductor, polyethylene insulation, bare copper braid shield (95% cverage), PVC jacket.

# Physical Characteristics (Overall)

## Conductor

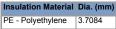
AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	23	Solid	BCCS - Bare Copper Covered Steel	0.584

**Total Number of Conductors:** 

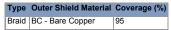
### Insulation

Insulation Material:



#### **Outer Shield**

Outer Shield Material:



#### **Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### **Overall Cable**

Overall Nominal Diameter: 6.096 mm

Mechanical Characteristics (Overall)
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Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	75°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	55.063 Kg/Km
Max. Recommended Pulling Tension:	275.788 N
Min. Bend Radius/Minor Axis:	63.500 mm

### **Applicable Specifications and Agency Compliance (Overall)**

	<b>Applicable</b>	<b>Standards</b>	&	<b>Environmental</b>	<b>Programs</b>
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NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 1354
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

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RG Type:	59/U
Flame Test	
UL Flame Test:	UL1685 UL Loading
Suitability	
Suitability - Indoor:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No
Plenum Number:	88241, 82241

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/m) 0.429811

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 67.2605

Nominal Velocity of Propagation:

**VP (%)** 

Nominal Delay:

Delay (ns/m) 5.05274

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 160.769

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 8.5306

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	1.9686
10	3.6091
50	7.8744
100	11.1554
200	16.0769
400	22.967
700	31.8257
900	36.4191
1000	39.372

### Nom. Power Rating:

Freq. (MHz)	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:

Voltage 1700 V RMS

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8241 002U1000	1,000 FT	38.000 LB	RED		RG59/U TYPE COAX RED
8241 003U1000	1,000 FT	38.000 LB	ORANGE		RG59/U TYPE COAX ORG
8241 004U1000	1,000 FT	38.000 LB	YELLOW		RG59/U TYPE COAX YEL

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### METRIC MEASUREMENT VERSION



### 8241 Coax - 75 Ohm Coax

8241 005U1000	1,000 FT	38.000 LB	GREEN, DARK		RG59/U TYPE COAX DGRN
8241 006U1000	1,000 FT	38.000 LB	BLUE, LIGHT		RG59/U TYPE COAX LBLU
8241 009U1000	1,000 FT	38.000 LB	WHITE		RG59/U TYPE COAX WHT
8241 010U1000	1,000 FT	38.000 LB	BLACK		RG59/U TYPE COAX BLK
8241 010U500	500 FT	19.500 LB	BLACK		RG59/U TYPE COAX BLK
8241 010100	100 FT	4.400 LB	BLACK		RG59/U TYPE COAX BLK
8241 0101000	1,000 FT	40.000 LB	BLACK	С	RG59/U TYPE COAX BLK
8241 0102000	2,000 FT	80.000 LB	BLACK	С	RG59/U TYPE COAX BLK
8241 010500	500 FT	20.000 LB	BLACK	С	RG59/U TYPE COAX BLK
8241 0105000	5,000 FT	200.000 LB	BLACK	С	RG59/U TYPE COAX BLK

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 08-27-2011

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