

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

BELDEN
SENDING ALL THE RIGHT SIGNALS

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% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	23	Solid	BCCS - Bare Copper Covered Steel	0.023

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PE - Polyethylene	.146

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.240 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 75°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 37 lbs/1000 ft.

Max. Recommended Pulling Tension: 62 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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)
75

Nom. Inductance:

Inductance (μH/ft)
.131

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
20.5

Nominal Velocity of Propagation:

VP (%)
66

Nominal Delay:

Delay (ns/ft)
1.54

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
49.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.6

Nom. Attenuation:

Freq. (MHz)	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:

Freq. (MHz)	Rating (W)
50	470
100	310
300	160
500	115
1000	76

Max. Operating Voltage - UL:

Voltage
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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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	C	RG59/U TYPE COAX BLK
8241 0102000	2,000 FT	80.000 LB	BLACK	C	RG59/U TYPE COAX BLK
8241 010500	500 FT	20.000 LB	BLACK	C	RG59/U TYPE COAX BLK
8241 0105000	5,000 FT	200.000 LB	BLACK	C	RG59/U TYPE COAX BLK

Notes:

C = CRATE REEL PUT-UP.

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