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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. (mm)
1	23	Solid	BCCS - Bare Copper Covered Steel	0.584

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PE - Polyethylene	3.7084

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: 6.096 mm

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: 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)

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

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/m)

0.429811

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

67.2605

Nominal Velocity of Propagation:

VP (%)

66

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:

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	305 MT	17.237 KG	RED		RG59/U TYPE COAX RED
8241 003U1000	305 MT	17.237 KG	ORANGE		RG59/U TYPE COAX ORG
8241 004U1000	305 MT	17.237 KG	YELLOW		RG59/U TYPE COAX YEL

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

8241 Coax - 75 Ohm Coax

8241 005U1000	305 MT	17.237 KG	GREEN, DARK		RG59/U TYPE COAX DGRN
8241 006U1000	305 MT	17.237 KG	BLUE, LIGHT		RG59/U TYPE COAX LBLU
8241 009U1000	305 MT	17.237 KG	WHITE		RG59/U TYPE COAX WHT
8241 010U1000	305 MT	17.237 KG	BLACK		RG59/U TYPE COAX BLK
8241 010U500	152 MT	8.845 KG	BLACK		RG59/U TYPE COAX BLK
8241 010100	30 MT	1.996 KG	BLACK		RG59/U TYPE COAX BLK
8241 0101000	305 MT	18.144 KG	BLACK	C	RG59/U TYPE COAX BLK
8241 0102000	610 MT	36.288 KG	BLACK	C	RG59/U TYPE COAX BLK
8241 010500	152 MT	9.072 KG	BLACK	C	RG59/U TYPE COAX BLK
8241 0105000	1,524 MT	90.719 KG	BLACK	C	RG59/U TYPE COAX BLK

Notes:

C = CRATE REEL PUT-UP.

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