Detailed Specifications & Technical Data



8241 Coax - 75 Ohm Coax

METRIC MEASUREMENT VERSION

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 1 23 Solid BCCS - Bare Copper Covered S	Dia. (mm) Steel 0.584
Total Number of Conductors:	1
Insulation Insulation Material:	
Insulation MaterialDia. (mm)PE - Polyethylene3.7084	
Outer Shield Outer Shield Material:	
TypeOuter Shield MaterialCoverage (%)BraidBC - Bare Copper95	
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 Com	pliance (Overall)
Applicable Standards & Environmental Program	
NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	СМ
AWM Specification:	UL Style 1354
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes

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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:

-	(B. B. L. L.)		(10 (10 0)
Frog	(MHZ)	Attenuation	(dR/100m)
TICQ.	(101112)	Attenuation	(ab/ room)

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

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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
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	С	RG59/U TYPE COAX BLK
8241 0102000	610 MT	36.288 KG	BLACK	С	RG59/U TYPE COAX BLK
8241 010500	152 MT	9.072 KG	BLACK	С	RG59/U TYPE COAX BLK
8241 0105000	1,524 MT	90.719 KG	BLACK	С	RG59/U TYPE COAX BLK

Notes:

C = CRATE REEL PUT-UP.

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