Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

8241 Coax - 75 Ohm Coax



For more Information
please call

1-800-Belden1

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

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 Cabling

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 (Install)/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 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

Related Documents:

No related documents are available for this product

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	C	RG59/U TYPE COAX BLK
8241 0102000	610 MT	36.288 KG	BLACK	C	RG59/U TYPE COAX BLK
8241 010500	152 MT	8.391 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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