Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

8237 Coax - RG-8/U Type

For more Information
please call

1-800-Belden1

General Description:

RG-8/U type, 13 AWG stranded (7x21) .085" bare copper conductor, polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	13	7x21	BC - Bare Copper	2.159

Total Number of Conductors:	1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PE - Polyethylene	7.239

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:	10.236 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	157.749 Kg/Km
Max. Recommended Pulling Tension:	845.158 N
Min. Bend Radius/Minor Axis:	107.950 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMH
CEC/C(UL) Specification:	CMH
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
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
Military Specification:	JAN-C-17A
RG Type:	8/U

Flame Test

CSA Flame Test:	FT1

Suitability

Suitability - Indoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
52

Nom. Inductance:

Inductance (µH/m)
0.259199

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
93.5085

Nominal Velocity of Propagation:

VP (%)
66

Nominal Delay:

Delay (ns/m)
5.05274

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
6.2339

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
3.9372

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.6562
10	1.9686
50	4.2653
100	6.2339
200	9.1868
400	13.7802
700	19.3579
900	22.6389
1000	24.2794
4000	76.1192

Nom. Power Rating:

Freq. (MHz)	Rating (W)
50	1200
100	800

400	320
1000	180

Max. Operating Voltage - Non-UL:

Voltage
3700 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8237 010100	100 FT	13.200 LB	BLACK	C	RG-8/U JAN-C-17A COAX
8237 0101000	1,000 FT	111.000 LB	BLACK	C	RG-8/U JAN-C-17A COAX
8237 010500	500 FT	56.000 LB	BLACK	C	RG-8/U JAN-C-17A COAX

Notes:
C = CRATE REEL PUT-UP.

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