

Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

BELDEN
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8232 Coax - RG-59/U Type



For more Information
please call

1-800-Belden1



Description:

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, bare copper braid shields (95% coverage), polyethylene jacket.

Physical Characteristics (Overall)

Conductor

AWG:

#	Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	Solid		BC - Bare Copper	0.8128

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	3.683

Inner Shield

Inner Shield Material:

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

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PE - Polyethylene	5.715

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	80

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PE - Polyethylene

Overall Cabling

Overall Nominal Diameter: 8.001 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-55°C To +80°C
Non-UL Temperature Rating:	80°C
Bulk Cable Weight:	81.851 Kg/Km
Max. Recommended Pulling Tension:	556.025 N
Min. Bend Radius (Install)/Minor Axis:	82.550 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU CE Mark:	No
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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

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes - when supported by a messenger wire
Suitability - Burial:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	88232

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (μ H/m)
0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.1522

Nominal Velocity of Propagation:

VP (%)
83

Nominal Delay:

Delay (ns/m)
4.00282

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
32.81

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)
8.2025

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
9.1868

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
3.6	1.9686
10	2.9529
71.5	6.8901
135	9.843
270	13.7802

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360	15.7488
540	19.3579
720	22.967
750	23.2951
1000	27.2323
1500	34.4505
2250	43.9654
3000	52.1679

Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5	850	21
851	3000	15

Sweep Test

Sweep Testing:

100% sweep tested 5 MHz to 3 GHz.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8232 0101000	305 MT	27.216 KG	BLACK	C	RG-59/U TYPE TRIAX
8232 0102000	610 MT	52.617 KG	BLACK	C	RG-59/U TYPE TRIAX
8232 010500	152 MT	14.061 KG	BLACK		RG-59/U TYPE TRIAX

Notes:

C = CRATE REEL PUT-UP.

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