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please call

1-800-Belden1



### General Description:

RG-59/U Type, 20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, bare copper braid shields (95% and 80% coverage), water blocking tape, CPE jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

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

Total Number of Conductors: 1

#### 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)
PVC - Polyvinyl Chloride	5.715

#### Outer Shield

Outer Shield Material:

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

Outer Shield Separator Material: Water blocking tape (between outer braid and outer jacket)

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
CPE

#### Overall Cable

Overall Nominal Diameter: 8.636 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 75C

Bulk Cable Weight: 99.709 Kg/Km

Max. Recommended Pulling Tension: 556.025 N

Min. Bend Radius/Minor Axis: 86.360 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
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):	10/04/2016
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:	UL1666 Vertical Shaft
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### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only.
Suitability - Aerial:	Yes - Black only, when supported by messenger wire.
Sunlight Resistance:	Yes - Black only.

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance (µH/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)

## 2232RW Triax - RG-59 Indoor/Outdoor Stadium Cable

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
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 - UL:

Voltage
300 V RMS

### Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5.000	850.000	21.000
850.000	4500.000	15.000

### Sweep Test

**Sweep Testing:** Return loss tested 5 MHz to 4.5 GHz.

### Notes (Overall)

**Notes:** Suitable for below grade applications.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
2232RW 0101000	1,000 FT	72.000 LB	BLACK	C	RG-59/U TRIAX INDOOR/OUTDOOR
2232RW 0104000	4,000 FT	284.000 LB	BLACK	C Z	RG-59/U TRIAX INDOOR/OUTDOOR

**Notes:**

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 0    Revision Date: 06-07-2017

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