



Part Number: 2232RW

Indoor/Outdoor Stadium Cable, RG-59/U Triax, 20 AWG solid, CMR

Product Description

RG-59/U Triax, 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.

Technical Specifications

Product Overview

Environmental Space:	Indoor/Outdoor
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
20	Solid	BC - Bare Copper	0.032 in	1

Insulation

Material	Nominal Diameter
Gas-injected FHDPE - Foam High Density Polyethylene	0.145 in

Inner Shield Material

Type	Material	Coverage [%]
Braid	BC - Bare Copper	95 %

Inner Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.225 in

Outer Shield Material

Type	Material	Coverage [%]
Braid	BC - Bare Copper	80 %

Outer Jacket Material

Material	Nominal Diameter
CPE - Chlorinated Polyethylene	0.340 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Inner Shield DCR	Nominal Outer Shield DCR
10 Ohm/1000ft	2.5 Ohm/1000ft	2.8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Shield
16.3 pF/ft

Inductance

Nominal Inductance
0.097 μ H/ft

Impedance

Nominal Characteristic Impedance

75 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 - 850 MHz	21 dB
850 - 4500 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1.0 MHz	0.3 dB/100ft
3.6 MHz	0.6 dB/100ft
10 MHz	0.9 dB/100ft
71.5 MHz	2.1 dB/100ft
135 MHz	3.0 dB/100ft
270 MHz	4.2 dB/100ft
360 MHz	4.8 dB/100ft
540 MHz	5.9 dB/100ft
720 MHz	7.0 dB/100ft
750 MHz	7.1 dB/100ft
1000 MHz	8.3 dB/100ft
1500 MHz	10.5 dB/100ft
2250 MHz	13.4 dB/100ft
3000 MHz	15.9 dB/100ft
4500 MHz	20 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.22 ns/ft	83 %

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

Non-UL Temp Rating:	75°C
UL Temp Rating:	75°C
Operating Temp Range:	-30°C To +75°C

Mechanical Characteristics

UV Resistance:	Yes - Black only
Bulk Cable Weight:	67 lbs/1000ft
Max Recommended Pulling Tension:	125 lbs
Min Bend Radius/Minor Axis:	3.4 in

Standards

NEC/(UL) Specification:	CMR
RG Type:	59/U Type

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2016-10-04
CA Prop 65 (CJ for Wire & Cable):	Yes

Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	UPC	Length	Footnote
2232RW 0101000	Black	612825387343	1,000 ft	
2232RW 0104000	Black	612825387350	4,000 ft	C Z

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

Product Notes

Notes:	Water blocking tape between outer jacket and outer braid. Print legend includes sequential footage marks.
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History

Update and Revision:	Revision Number: 0.103 Revision Date: 08-22-2019
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