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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Part Number: 5439W5

Surveillance CCTV, RG-59 #20 BC, Duobond+95% TC Braid, CM, Gel Fill

Product Description

Surveillance & CCTV Cable, RG59, Rated-CM, 20 AWG solid bare copper, foam polyolefin core, Duobond® + 95% tinned copper braid, CoreGuard® gel filled, PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	Low Voltage, Sunlight Resistant, Moisture Resistant, CCTV, Surveillance, CATV, MATV
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Physical Characteristics (Overall)

Conductor

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

Conductor Count:	1
Conductor Size:	20 AWG

Insulation

Layer	Material	Nominal Diameter
1	Gas-injected FPE - Foam Polyethylene	0.145 in

Inner Shield Material

Layer
1

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duobond®	100 %
Braid	2	TC - Tinned Copper		95 %

Note:	Coreguard®
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Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.236 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR
10 Ohm/1000ft	10 Ohm/1000ft		2.5 Ohm/1000ft

Capacitance

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield
1 pF/ft	16.3 pF/ft
1 pF/ft	

Shielding:	Foil + Braid(s)
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Inductance

Nominal Inductance

0.097 µH/ft

Impedance**Nominal Characteristic Impedance**

75 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.29 dB/100ft
5 MHz	0.63 dB/100ft
10 MHz	0.87 dB/100ft
50 MHz	1.7 dB/100ft
100 MHz	2.3 dB/100ft
200 MHz	3.4 dB/100ft
400 MHz	4.7 dB/100ft
700 MHz	6.3 dB/100ft
900 MHz	7.3 dB/100ft
1000 MHz	7.8 dB/100ft

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
83 ns/100m	1.21 ns/ft	83 %

High Freq

Frequency [MHz]
1 MHz
5 MHz
10 MHz
50 MHz
100 MHz
200 MHz
400 MHz
700 MHz
900 MHz
1000 MHz

Voltage**UL Voltage Rating**

300 V RMS

Temperature Range

Non-UL Temp Rating:	75°C
Operating Temp Range:	-40°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	30 lbs/1000ft
Max Recommended Pulling Tension:	57 lbs
Min Bend Radius/Minor Axis:	2.5 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
CPR Euroclass:	Eca
RG Type:	59/U Type
RG / Series Type:	59/U Type

Applicable Environmental and Other Programs

EU Directive Compliance:	Yes
EU CE Mark:	Yes

EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT1
UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Footnote
5439W5 0101000	Black	C
5439W5 010500	Black	
5439W5 010U1000	Black	

Footnote:	C - CRATE REEL PUT-UP.
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