



For more Information
please call

1-800-Belden1



General Description:

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

Usage (Overall)

Suitable Applications: Low Voltage, Sunlight Resistant, Moisture Resistant, CCTV, Surveillance, CATV, MATV

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 FPE - Foam Polyethylene	3.683

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duobond®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Outer Shield Flooding Grease: Coreguard®

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 5.994 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 44.646 Kg/Km

Max. Recommended Pulling Tension: 253.547 N

Min. Bend Radius/Minor Axis: 63.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

NEC Articles: 800

CEC/C(UL) Specification: CM

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): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

METRIC MEASUREMENT VERSION

5439W5 Coax - CCTV, CATV and MATV Applications

EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
RG Type:	59/U

Flame Test

UL Flame Test:	UL1685 UL Loading
C(UL) Flame Test:	FT1

Suitability

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

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.4803

Nominal Velocity of Propagation:

VP (%)

83

Nominal Delay:

Delay (ns/m)

3.97001

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

32.81

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

8.2025

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.95149
5	2.06703
10	2.85447
50	5.5777
100	7.5463
200	11.1554
400	15.4207
700	20.6703
900	23.9513
1000	25.5918

Max. Operating Voltage - UL:

Voltage

300 V RMS

Notes (Overall)

Notes: Can be used for MATV applications. Recommend 1545A or 1546A for CATV applications.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5439W5 010U1000	1,000 FT	34.000 LB	BLACK		#20 PE/GIFHD SH PVC
5439W5 010I1000	1,000 FT	34.000 LB	BLACK	C	#20 PE/GIFHD SH PVC
5439W5 010500	500 FT	17.500 LB	BLACK		#20 PE/GIFHD SH PVC

METRIC MEASUREMENT VERSION

5439W5 Coax - CCTV, CATV and MATV Applications

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 03-11-2013

© 2017 Belden, Inc.
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).