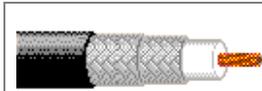


**1505F Coax - RG-59/U Type**



For more Information  
 please call  
 1-800-Belden1



**Description**

22 AWG stranded (7x29) .031" bare compacted copper conductor, gas-injected foam HDPE insulation, tinned copper/bare copper double braid shield (95% coverage), PVC jacket.

**Physical Characteristics (Overall):**

**Conductor:**

AWG

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	7x29	BCC - Bare Compacted Copper	0.031

**Insulation:**

Insulation Material

Ins Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	0.145

**Outer Shield:**

Outer Shield Material

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	% Coverage (%)	Dia. (in.)	Description
1		Braid	TC - Tinned Copper	94	0.167	Layer 1
2		Braid	TC - Tinned Copper	94	0.189	Layer 2

**Outer Jacket:**

Outer Jacket Material

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cabling:**

Overall Nominal Diameter: .242 in.

**Mechanical Characteristics (Overall):**

Operating Temperature Range -35°C To +75°C

UL Temperature Rating 75°C

Bulk Cable Weight: 40 lbs/1000 ft.

Max. Recommended Pulling Tension: 90 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.400 in.

**Applicable Specifications and Agency Compliance (Overall):**

**Applicable Standards:**

NEC/(UL) Specification CM

CEC/C(UL) Specification CM

EU CE Mark (Y/N) Yes

EU RoHS Compliant (Y/N) Yes

EU RoHS Compliance Date (mm/dd/yyyy) 01/01/2005

RG Type 59/U

**Flame Test:**

UL Flame Test UL1685 UL Loading

**Suitability:**

**1505F Coax - RG-59/U Type**

Suitability - Indoor	Yes
Suitability - Outdoor	Yes - Black Only
Suitability - Aerial	Yes - Black only, when supported by a messenger wire
<b>Plenum/Non-Plenum:</b>	
Plenum (Y/N)	N

**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

<b>Impedance (Ohm)</b>
75.000

Nom. Inductance

<b>Inductance (µH/ft)</b>
0.094

Nom. Capacitance Conductor to Shield

<b>Capacitance (pF/ft)</b>
17.000

Nominal Velocity of Propagation

<b>VP (%)</b>
80

Nominal Delay

<b>Delay (ns/ft)</b>
1.300

Nom. Conductor DC Resistance

<b>DCR @ 20°C (Ohm/1000 ft)</b>
12.200

Nominal Outer Shield DC Resistance

<b>DCR @ 20°C (Ohm/1000 ft)</b>
2.400

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.200
	3.600			0.500
	5.000			0.600
	7.000			0.730
	10.000			0.900
	67.500			2.400
	71.500			2.500
	88.500			2.800
	100.000			3.000
	135.000			3.500
	143.000			3.600
	180.000			4.100
	270.000			5.100
	360.000			6.000
	540.000			7.400
	720.000			8.700
	750.000			8.900
	1000.000			10.500
	1500.000			13.300
	2000.000			15.700
	2250.000			16.900
	3000.000			20.300

Max. Operating Voltage - UL

<b>Voltage</b>
----------------

**1505F Coax - RG-59/U Type**

300 V RMS

Other Electrical Characteristic 1 Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.

Other Electrical Characteristic 2 Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
		5.000	3000.000	15.000

**Sweep Test:**

Sweep Testing 100% Sweep tested 5 MHz to 3 GHz.

**Notes (Overall):**

Notes Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

**PUT UPS AND COLORS:**

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
1505F 0041000	1,000 FT	45.000 LB	YELLOW	C	#21 GIFHDLDPPE DBLB PVC YEL
1505F B591000	1,000 FT	45.000 LB	BLACK, MATTE	C	#21 GIFHDLDPPE DBLB PVC BLKMTT
1505F G7V1000	1,000 FT	45.000 LB	RED, MATTE	C	#21 GIFHDLDPPE DBLB PVC REDMTT
1505F G7W1000	1,000 FT	45.000 LB	GREEN, MATTE	C	#21 GIFHDLDPPE DBLB PVC GRNMTT
1505F G7X1000	1,000 FT	45.000 LB	BLUE, MATTE	C	#21 GIFHDLDPPE DBLB PVC BLUMTT
1505F G7Y1000	1,000 FT	45.000 LB	WHITE, MATTE	C	#21 GIFHDLDPPE DBLB PVC WHTMTT
1505F G8L1000	1,000 FT	45.000 LB	ORANGE, MATTE	C	#21 GIFHDLDPPE DBLB PVC ORGMTT
1505F Z4B1000	1,000 FT	45.000 LB	VIO Z4B		#21 GIFHDLDPPE DBLB PVC VIOZ4B

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 7 Revision Date: 05-14-2007

© 2007 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 the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs. (San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory; and China Ministry of Information Industry order#39 (China RoHS). EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); EU BFR (Directive 2003/11/EC, 6-Feb-2003). 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 the 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 73/23/EEC), as amended by directive 93/68/EEC.