

### ENGLISH MEASUREMENT VERSION

### 1505A Coax - RG-59/U Type



For more Information please call

1-800-Belden1



### **General Description:**

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

Phys	sical (	Chara	acteris	tics (Ove	rall)					
Con	ducto									
	NG:									
				g Conductor						
	1	20	Solid	BC - Bare (	opper	.032				
-	Total N	lumbe	r of Con	ductors:			1			
	lation sulatio		erial:							
	Insulati	ion Mat	terial			l	Dia. (in.)			
	Gas-inje	ected F	HDPE - F	oam High De	nsity Po	olyethylene	.145			
	e <mark>r Shie</mark> uter Sh		aterial:							
	Layer #	# Outer	Shield T	rade Name	Type C	Outer Shield	Material		Coverage (%)	
	1	Duofo	oil®		· ·		I-Polyester Tape-	Aluminum Foil		
	2			E	Braid T	C - Tinned C	Copper		95	
_		l Nomi	nal Dian				0.233 in.			
				eristics (C	)vera	ll)	20°C Ta 17	5.0		
_	-	-	-	ure Range:			-30°C To +7	50		
_		•	ure Rati	ng:			75°C	<i>C</i> L		
_	Bulk Ca		-	Dulling To			31 lbs/1000	π.		
-				Pulling Ter	ision:		47 lbs. 2.500 in.			
_										
		-			_	-	npliance (O	verall)		
			ndards ecificatio	& Environ	ment	ai Progra	ms CMR			
_			pecifica				CMG			
_		. ,	•	/EU (ROHS	II)·		Yes			
_	EU CE				,.		Yes			
_				/EC (ELV):			Yes			
_				/EC (RoHS)	:		Yes			
				, <b>.</b> ,						

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EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
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
UL Flame Test: CSA Flame Test:	UL1666 Vertical Shaft FT6
CSA Flame Test:	
CSA Flame Test: Suitability	FT6
CSA Flame Test: Suitability Suitability - Indoor:	FT6
CSA Flame Test: Suitability Suitability - Indoor: Plenum/Non-Plenum	FT6 Yes

### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm) 75

Nom. Inductance:

Inductance (µH/ft)

0.107

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.3

Nominal Velocity of Propagation:

**VP (%)** 82.000

Nominal Delay:

Delay (ns/ft)

1.240

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 10.0

0.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.8

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.300
3.600	0.600
5.000	0.630
6.000	0.690
7.000	0.740
10.000	0.900
12.000	0.910
25.000	1.300
67.500	2.050
71.500	2.100
88.500	2.200
100.000	2.300
135.000	2.700





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143.000	2.800
180.000	3.100
270.000	3.800
360.000	4.400
540.000	5.500
720.000	6.400
750.000	6.500
1000.000	7.600
1500.000	9.300
2000.000	10.900
2250.000	11.600
3000.000	13.400
4500.000	16.400

### Max. Operating Voltage - UL:

Voltage 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. 75 +/- 1.5 Ohms

**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:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	1600	23
1600	4500	21

#### **Sweep Test**

Sweep Testing:

100% Sweep tested 5 MHz to 4.5 GHz.

### Misc. Information (Overall)

#### **Notes (Overall)**

Notes: Also available in bundled versions. See 7794A through 7798A.

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1505A N3U1000	1,000 FT	35.000 LB	GREEN, MIL	С	#20 PE/GIFHDPE SH FR PVC
1505A N3U5000	5,000 FT	165.000 LB	GREEN, MIL	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0011000	1,000 FT	35.000 LB	BROWN	С	#20 PE/GIFHDPE SH FR PVC
1505A 0015000	5,000 FT	165.000 LB	BROWN	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0021000	1,000 FT	35.000 LB	RED	С	#20 PE/GIFHDPE SH FR PVC
1505A 002500	500 FT	17.500 LB	RED	С	#20 PE/GIFHDPE SH FR PVC
1505A 0025000	5,000 FT	165.000 LB	ORANGE	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0031000	1,000 FT	35.000 LB	ORANGE	С	#20 PE/GIFHDPE SH FR PVC
1505A 0035000	5,000 FT	165.000 LB	ORANGE	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0041000	1,000 FT	35.000 LB	YELLOW	С	#20 PE/GIFHDPE SH FR PVC
1505A 0045000	5,000 FT	165.000 LB	YELLOW	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0061000	1,000 FT	35.000 LB	BLUE, LIGHT	С	#20 PE/GIFHDPE SH FR PVC
1505A 006500	500 FT	17.500 LB	BLUE, LIGHT	С	#20 PE/GIFHDPE SH FR PVC
1505A 0065000	5,000 FT	165.000 LB	BLUE, LIGHT	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0071000	1,000 FT	35.000 LB	VIOLET	С	#20 PE/GIFHDPE SH FR PVC
1505A 0075000	5,000 FT	165.000 LB	VIOLET	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0081000	1,000 FT	35.000 LB	GRAY	С	#20 PE/GIFHDPE SH FR PVC
1505A 0085000	5,000 FT	165.000 LB	GRAY	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0091000	1,000 FT	35.000 LB	WHITE	С	#20 PE/GIFHDPE SH FR PVC
1505A 0095000	5,000 FT	165.000 LB	WHITE	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0101000	1,000 FT	35.000 LB	BLACK	С	#20 PE/GIFHDPE SH FR PVC
1505A 010500	500 FT	17.500 LB	BLACK	С	#20 PE/GIFHDPE SH FR PVC
1505A 0105000	5,000 FT	165.000 LB	BLACK	CN	#20 PE/GIFHDPE SH FR PVC





Notes:

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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