

1505A Coax - RG-59/U Type

For more Information
please call

1-800-Belden1

**Description:**

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

Physical Characteristics (Overall)**Conductor****AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	Solid	BC - Bare Copper	.032

Insulation**Insulation Material:**

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.145

Outer Shield**Outer Shield Material:**

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

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.233 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 31 lbs/1000 ft.

Max. Recommended Pulling Tension: 47 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

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): 01/01/2005

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

EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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Suitability

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes - Black only
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Suitability - Aerial:	Yes - Black only, when supported by a messenger wire
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Plenum Number:	1506A
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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 (%)

83

Nominal Delay:

Delay (ns/ft)

1.22

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.8

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
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1.000	0.300
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3.600	0.600
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5.000	0.630
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6.000	0.690
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7.000	0.740
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10.000	0.900
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12.000	0.910
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25.000	1.300
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67.500	2.050
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71.500	2.100
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88.500	2.200
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100.000	2.300
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135.000	2.700
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143.000	2.800
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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
3000.000	13.400
2250.000	11.600
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.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1505A N3U1000	1,000 FT	35.000 LB	GREEN, MIL	C	#20 PE/GIFHDPE SH FR PVC
1505A N3U5000	5,000 FT	165.000 LB	GREEN, MIL	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0011000	1,000 FT	35.000 LB	BROWN	C	#20 PE/GIFHDPE SH FR PVC
1505A 0015000	5,000 FT	165.000 LB	BROWN	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0021000	1,000 FT	35.000 LB	RED	C	#20 PE/GIFHDPE SH FR PVC
1505A 002500	500 FT	15.500 LB	RED	C	#20 PE/GIFHDPE SH FR PVC
1505A 0025000	5,000 FT	165.000 LB	ORANGE	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0031000	1,000 FT	35.000 LB	ORANGE	C	#20 PE/GIFHDPE SH FR PVC
1505A 0035000	5,000 FT	165.000 LB	ORANGE	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0041000	1,000 FT	35.000 LB	YELLOW	C	#20 PE/GIFHDPE SH FR PVC
1505A 0045000	5,000 FT	165.000 LB	YELLOW	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0061000	1,000 FT	35.000 LB	BLUE, LIGHT	C	#20 PE/GIFHDPE SH FR PVC
1505A 006500	500 FT	15.500 LB	BLUE, LIGHT	C	#20 PE/GIFHDPE SH FR PVC
1505A 0065000	5,000 FT	165.000 LB	BLUE, LIGHT	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0071000	1,000 FT	35.000 LB	VIOLET	C	#20 PE/GIFHDPE SH FR PVC
1505A 0075000	5,000 FT	165.000 LB	VIOLET	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0081000	1,000 FT	35.000 LB	GRAY	C	#20 PE/GIFHDPE SH FR PVC
1505A 0085000	5,000 FT	165.000 LB	GRAY	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0091000	1,000 FT	35.000 LB	WHITE	C	#20 PE/GIFHDPE SH FR PVC
1505A 0095000	5,000 FT	165.000 LB	WHITE	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0101000	1,000 FT	35.000 LB	BLACK	C	#20 PE/GIFHDPE SH FR PVC

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1505A 010500	500 FT	17.500 LB	BLACK	C	#20 PE/GIFHDPE SH FR PVC
1505A 0105000	5,000 FT	165.000 LB	BLACK	C N	#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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