

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	0.032

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 (%)
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 Cabling:

Overall Nominal Diameter: .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:

NEC/(UL) Specification CMR

CEC/C(UL) Specification CMG

EU CE Mark (Y/N) Yes

EU RoHS Compliant (Y/N) Yes

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

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Flame Test:

UL Flame Test UL1666 Vertical Shaft

Suitability:

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Suitability - Indoor	Yes
Suitability - Outdoor	Yes - Black only
Suitability - Aerial	Yes - Black only, when supported by a messenger wire
Plenum/Non-Plenum:	
Plenum (Y/N)	N
Plenum Number	1506A

Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
75.000

Nom. Inductance

Inductance (µH/ft)
0.107

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
16.300

Nominal Velocity of Propagation

VP (%)
83

Nominal Delay

Delay (ns/ft)
1.220

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
10.000

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
3.800

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.300
	3.600			0.600
	5.000			0.630
	7.000			0.740
	10.000			0.900
	67.500			2.050
	71.500			2.100
	88.500			2.200
	100.000			2.300
	135.000			2.700
	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

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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

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
		5.000	1600.000	23.000
		1600.000	4500.000	21.000

Sweep Test:

Sweep Testing

100% Sweep tested 5 MHz to 4.5 GHz.

Notes (Overall):

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

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
1505A 0011000	1,000 FT	35.000 LB	BROWN	C	#20 PE/GIFHDPE SH FR PVC BRN
1505A 0015000	5,000 FT	165.000 LB	BROWN	C N	#20 PE/GIFHDPE SH FR PVC BRN
1505A 0021000	1,000 FT	35.000 LB	RED	C	#20 PE/GIFHDPE SH FR PVC RED
1505A 002500	500 FT	15.500 LB	RED	C	#20 PE/GIFHDPE SH FR PVC RED
1505A 0025000	5,000 FT	165.000 LB	ORANGE	C N	#20 PE/GIFHDPE SH FR PVC RED
1505A 0031000	1,000 FT	35.000 LB	ORANGE	C	#20 PE/GIFHDPE SH FR PVC ORG
1505A 0035000	5,000 FT	165.000 LB	ORANGE	C N	#20 PE/GIFHDPE SH FR PVC ORG
1505A 0041000	1,000 FT	35.000 LB	YELLOW	C	#20 PE/GIFHDPE SH FR PVC YEL
1505A 0045000	5,000 FT	165.000 LB	YELLOW	C N	#20 PE/GIFHDPE SH FR PVC YEL
1505A 0061000	1,000 FT	35.000 LB	BLUE, LIGHT	C	#20 PE/GIFHDPE SH FR PVC BLULT
1505A 006500	500 FT	15.500 LB	BLUE, LIGHT	C	#20 PE/GIFHDPE SH FR PVC BLULT
1505A 0065000	5,000 FT	165.000 LB	BLUE, LIGHT	C N	#20 PE/GIFHDPE SH FR PVC BLULT
1505A 0071000	1,000 FT	35.000 LB	VIOLET	C	#20 PE/GIFHDPE SH FR PVC VIO
1505A 0075000	5,000 FT	165.000 LB	VIOLET	C N	#20 PE/GIFHDPE SH FR PVC VIO
1505A 0081000	1,000 FT	35.000 LB	GRAY	C	#20 PE/GIFHDPE SH FR PVC GRY
1505A 0085000	5,000 FT	165.000 LB	GRAY	C N	#20 PE/GIFHDPE SH FR PVC GRY
1505A 0091000	1,000 FT	35.000 LB	WHITE	C	#20 PE/GIFHDPE SH FR PVC WHT
1505A 0095000	5,000 FT	165.000 LB	WHITE	C N	#20 PE/GIFHDPE SH FR PVC WHT
1505A 0101000	1,000 FT	35.000 LB	BLACK	C	#20 PE/GIFHDPE SH FR PVC BLK
1505A 010500	500 FT	15.500 LB	BLACK	C	#20 PE/GIFHDPE SH FR PVC BLK
1505A 0105000	5,000 FT	165.000 LB	BLACK	C N	#20 PE/GIFHDPE SH FR PVC BLK
1505A N3U1000	1,000 FT	35.000 LB	GREEN, MIL	C	#20 PE/GIFHDPE SH FR PVC GRNML
1505A N3U5000	5,000 FT	165.000 LB	GREEN, MIL	C N	#20 PE/GIFHDPE SH FR PVC GRNML

Notes:

C = CRATE REEL PUT-UP.

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

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