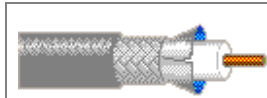


1506A Coax - RG-59/U Type



For more Information
please call

1-800-Belden1



Description

20 AWG solid .032" bare copper conductor, plenum, foam FEP insulation, Duofoil® + tinned copper braid shield (95% coverage), Flamarrest® 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 Trade Name	Ins Material	Dia. (in.)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	0.133

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 Trade Name	Outer Jacket Material
Flamarrest®	PVC - Polyvinyl Chloride

Overall Cabling:

Overall Nominal Diameter: .196 in.

Mechanical Characteristics (Overall):

Operating Temperature Range -20°C To +75°C

UL Temperature Rating 75°C

Bulk Cable Weight: 27 lbs/1000 ft.

Max. Recommended Pulling Tension: 52 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

NEC/(UL) Specification CMP

CEC/C(UL) Specification CMP

EU CE Mark (Y/N) Yes

EU RoHS Compliant (Y/N) Yes

EU RoHS Compliance Date (mm/dd/yyyy) 04/01/2005

RG Type 59/U

Flame Test:

UL Flame Test NFPA 262

Suitability:

1506A Coax - RG-59/U Type

Suitability - Indoor Yes

Suitability - Outdoor No

Plenum/Non-Plenum:

Plenum (Y/N) Y

Non-Plenum Number 1505A

Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
75.000

Nom. Inductance

Inductance (μH/ft)
0.097

Nom. Capacitance Conductor to Shield

Capacitance (pF/ft)
16.100

Nominal Velocity of Propagation

VP (%)
84

Nominal Delay

Delay (ns/ft)
1.210

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
10.000

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
3.200

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.290
	3.580			0.620
	5.000			0.700
	7.000			0.820
	10.000			1.050
	67.500			2.200
	71.500			2.250
	100.000			2.700
	135.000			3.200
	143.000			3.250
	180.000			3.650
	270.000			4.550
	360.000			5.250
	540.000			6.400
	720.000			7.300
	750.000			7.500
	1000.000			9.400
	1500.000			12.800
	2250.000			17.500
	3000.000			21.900

Max. Operating Voltage - UL

Voltage
300 V RMS

1506A Coax - RG-59/U Type

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 Structural Return Loss

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		5.000	850.000	23.000
		851.000	3000.000	21.000

Sweep Test:

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

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
1506A 0011000	1,000 FT	29.000 LB	BROWN	C Z	#20 FFEP SH FLMRST BRN
1506A 0021000	1,000 FT	29.000 LB	RED	C Z	#20 FFEP SH FLMRST RED
1506A 0031000	1,000 FT	29.000 LB	ORANGE	Z	#20 FFEP SH FLMRST ORG
1506A 0041000	1,000 FT	29.000 LB	YELLOW	Z	#20 FFEP SH FLMRST YEL
1506A 0061000	1,000 FT	29.000 LB	BLUE, LIGHT	C Z	#20 FFEP SH FLMRST BLULT
1506A 0071000	1,000 FT	29.000 LB	VIOLET	C Z	#20 FFEP SH FLMRST VIO
1506A 0081000	1,000 FT	29.000 LB	GRAY	Z	#20 FFEP SH FLMRST GRY
1506A 0101000	1,000 FT	29.000 LB	BLACK	C	#20 FFEP SH FLMRST BLK
1506A 010500	500 FT	14.500 LB	BLACK	C Z	#20 FFEP SH FLMRST BLK
1506A 8771000	1,000 FT	29.000 LB	NATURAL	C	#20 FFEP SH FLMRST NAT
1506A 877500	500 FT	14.500 LB	NATURAL	C Z	#20 FFEP SH FLMRST NAT
1506A N3U1000	1,000 FT	29.000 LB	GREEN, MIL	C Z	#20 FFEP SH FLMRST GRNML

Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 4 Revision Date: 05-14-2007

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