


1506A Coax - Precision Video Cable for Analog and Digital

	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

20 AWG solid .032" bare copper conductor, foam FEP insulation, Duofoil® and a 95% tinned copper braid shield, Flamarrest® jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	59/U
AWG	20
Stranding	Solid
Conductor Diameter	.032 in.
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material Trade Name	Teflon®
Insulation Material	FFEP - Foam Fluorinated Ethylene Propylene
Insulation Diameter	.133 in.

OUTER SHIELD:

Outer Shield Material Trade Name	Duofoil®
Outer Shield Type	Tape/Braid

Outer Shield Material :

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

Outer Shield % Coverage	100 %
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OUTER JACKET:

Outer Jacket Material Trade Name	Flamarrest®
Outer Jacket Material	PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.196 in.
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MECHANICAL CHARACTERISTICS:

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)	2 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMP
CEC/C(UL) Specification	CMP

FLAME TEST:

UL Flame Test	NFPA 262
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SWEEP TEST:

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

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Suitability - Aerial	Yes - When supported by a messenger wire
Suitability - Burial	Yes

PLENUM/NON-PLENUM:

Plenum (Y/N)	Y
Non-Plenum Number	1505A

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	0.097 µH/ft
Nom. Capacitance Conductor to Shield	16.1 pF/ft
Nominal Velocity of Propagation	84 %
Nominal Delay	1.21 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	10.0 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	3.2 Ohms/1000 ft

Minimum Structural Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Structural Return Loss (dB)
		5	850	23
		851	3000	21

Nom. Attenuation :



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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			.29
	3.58			.62
	5			.70
	7			.82
	10			1.05
	67.5			2.20
	71.5			2.25
	100			2.70
	135			3.20
	143			3.25
	180			3.65
	270			4.55
	360			5.25
	540			6.4
	720			7.3
	750			7.5
	1000			9.4
	1500			12.8
	2250			17.5
	3000			21.9

Max. Operating Voltage - UL	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.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1506A 0011000	#20 FFEP SH FLMRST	1000	32	BROWN	C Z
1506A 0021000	#20 FFEP SH FLMRST	1000	32	RED	C Z
1506A 0031000	#20 FFEP SH FLMRST	1000	32	ORANGE	Z
1506A 0041000	#20 FFEP SH FLMRST	1000	32	YELLOW	Z
1506A 0061000	#20 FFEP SH FLMRST	1000	32	BLUE, LIGHT	C Z
1506A 0071000	#20 FFEP SH FLMRST	1000	32	VIOLET	C Z
1506A 0081000	#20 FFEP SH FLMRST	1000	32	GRAY	Z
1506A 0101000	#20 FFEP SH FLMRST	1000	32	BLACK	C
1506A 010500	#20 FFEP SH FLMRST	500	16.5	BLACK	C Z



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1506A 8771000	#20 FFEP SH FLMRST	1000	32	NATURAL	C
1506A 877500	#20 FFEP SH FLMRST	500	16.5	NATURAL	C Z
1506A N3U1000	#20 FFEP SH FLMRST	1000	32	GREEN, MIL	C Z

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.

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