


## Detailed Specifications & Technical Data



### 1695A Coax - Low Loss Serial Digital Coax

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

RG-6/U type, 18 AWG solid .040" bare copper conductor, plenum, foam FEP insulation, Duofoil® + tinned copper braid shield (95% coverage), Flamarrest® jacket.

#### PHYSICAL CHARACTERISTICS:

##### CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	6/U
AWG	18
Stranding	Solid
Conductor Diameter	.040 in.
Conductor Material	BC - Bare Copper

##### INSULATION:

Insulation Material Trade Name	Teflon®
Insulation Material	FFEP - Foam Fluorinated Ethylene Propylene
Insulation Diameter	.170 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	LS PVC - Low Smoke Polyvinyl Chloride

##### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.234 in.
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##### MECHANICAL CHARACTERISTICS:

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Operating Temperature Range	-20°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	33 lbs/1000 ft.
Max. Recommended Pulling Tension	92 lbs.
Min. Bend Radius (Install)	2.5 in.

#### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

##### APPLICABLE STANDARDS:

NEC/(UL) Specification	CMP
CEC/C(UL) Specification	CMP
EU CE Mark (Y/N)	No
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005

##### 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 - All colors
Suitability - Outdoor	No
Suggested Connectors	Amphenol 31-70000; Kings 2065-9-9; ADC BNC-1695D; Amp 1-221185-6

##### PLENUM/NON-PLENUM:

Plenum (Y/N)	Y
Non-Plenum Number	1694A

##### ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	0.103 $\mu$ H/ft
Nom. Capacitance Conductor to Shield	16.1 pF/ft
Nominal Velocity of Propagation	82 %
Nominal Delay	1.24 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	6.4 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg.C	2.8 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			0.24
	3.58			0.45
	5			0.55
	7			0.65
	10			0.75
	67.5			1.74
	71.5			1.78
	88.5			1.94
	100			2.1
	135			2.4
	143			2.5
	180			2.8
	270			3.4
	360			4.0
	540			5.2
	720			6.1
	750			6.2
	1000			7.3
	1500			9.2
	2000			10.9
	2250			11.6
	3000			13.7

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.

#### NOTES:

Notes	Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
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#### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1695A 0011000	#18 FFEP SH FLRST	1000	45	BROWN	C
1695A 0021000	#18 FFEP SH FLRST	1000	45	RED	C
1695A 0031000	#18 FFEP SH FLRST	1000	45	ORANGE	C
1695A 0041000	#18 FFEP SH FLRST	1000	45	YELLOW	C
1695A 0061000	#18 FFEP SH FLRST	1000	45	BLUE, LIGHT	C
1695A 0071000	#18 FFEP SH FLRST	1000	45	VIOLET	C

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1695A 0081000	#18 FFEP SH FLRST	1000	45	GRAY	C
1695A 0101000	#18 FFEP SH FLRST	1000	45	BLACK	C
1695A 010500	#18 FFEP SH FLRST	500	20.5	BLACK	C
1695A 8771000	#18 FFEP SH FLRST	1000	45	NATURAL	C
1695A 877500	#18 FFEP SH FLRST	500	20.5	NATURAL	Z
1695A N3U1000	#18 FFEP SH FLRST	1000	45	GREEN, MIL	C

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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