

## 1694A Coax - Precision Video Cable for Analog and Digital



For more information please  
call

**1-800-Belden1**

See Put-ups and Colors

### Description:

18 AWG .040" solid bare copper conductor, gas-injected foam HDPE insulation, Duofoil® and a 95% tinned copper braid shield, PVC jacket.

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	6/U
AWG	18
Stranding	Solid
Conductor Diameter	1.016 mm
Conductor Material	BC - Bare Copper

#### INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	4.572 mm

#### 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	PVC - Polyvinyl Chloride
Outer Jacket Nominal Wall Thickness	0.838 mm

#### OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	6.96 mm
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#### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +75°C
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UL Temperature Rating	75°C
Bulk Cable Weight	59.528 Kg/Km
Max. Recommended Pulling Tension	306.926 N
Min. Bend Radius (Install)	6.985 cm

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMG

**FLAME TEST:**

UL Flame Test	UL1666 Vertical Shaft
CSA Flame Test	FT4

**SUITABILITY:**

Suitability - Indoor	All colors
Suitability - Outdoor	Black only
Suitability - Aerial	Black only, when supported by a messenger wire
Suggested Connectors	AMP 221185-1 Dual Crimp Gold Pin BNC (75 Ohms); Amphenol 31-70000 Dual Crimp Gold Pin BNC (75 Ohms); Kings 2065-10-9 Dual Crimp Gold Pin (75 Ohms); Trompeter UPL220-20 Dual Crimp Gold Pin BNC (75 Ohm); ADC BNC-1694D Dual Crimp Gold Pin BNC (75 Ohm)

**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
Non-Plenum Number	1695A

**ELECTRICAL CHARACTERISTICS:**

Nom. Characteristic Impedance	75 +/- 1.5 Ohms
Nom. Inductance	0.348 µH/m
Nom. Capacitance Conductor to Shield	53.152 pF/m
Nominal Velocity of Propagation	82 %
Nominal Delay	4.068 ns/m
Nom. Conductor DC Resistance @ 20 Deg. C	20.998 Ohms/km
Nominal Outer Shield DC Resistance @ 20°C	9.187 Ohms/km

**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/100m)
	1			0.787
	3.58			1.476
	5			1.772
	7			2.067
	10			2.362
	67.5			5.151
	71.5			5.25
	88.5			5.742
	100			6.037
	135			6.89
	143			7.087
	180			7.94
	270			9.745
	360			11.254
	540			13.944
	720			16.241
	750			16.405
	1000			19.325
	1500			24.05
	2000			28.118
	2250			29.988
	3000			35.008

Max. Operating Voltage - UL 300 V RMS

**NOTES:**

Notes

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination. 100% Sweep tested 5 MHz to 3 GHz. Also available in bundled versions. See 7710A through 7713A.

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
1694A 0011000	#18 PE/GIFHDPE SH FR PVC	304.8	20.43	BROWN	C
1694A 0014500	#18 PE/GIFHDPE SH FR PVC	1371.6	91.935	BROWN	C
1694A 0021000	#18 PE/GIFHDPE SH FR PVC	304.8	20.43	RED	C
1694A 0024500	#18 PE/GIFHDPE SH FR PVC	1371.6	91.935	RED	C
1694A 0031000	#18 PE/GIFHDPE SH FR PVC	304.8	20.43	ORANGE	C
1694A 0034500	#18 PE/GIFHDPE SH FR PVC	1371.6	91.935	ORANGE	C
1694A 0041000	#18 PE/GIFHDPE SH FR PVC	304.8	20.43	YELLOW	C



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1694A 0044500	#18 PE/GIFHDPE SH FR PVC	1371.6	91.935	YELLOW	C
1694A 0061000	#18 PE/GIFHDPE SH FR PVC	304.8	20.43	BLUE, LIGHT	C
1694A 0064500	#18 PE/GIFHDPE SH FR PVC	1371.6	91.935	BLUE, LIGHT	C
1694A 0071000	#18 PE/GIFHDPE SH FR PVC	304.8	20.43	VIOLET	C
1694A 0074500	#18 PE/GIFHDPE SH FR PVC	1371.6	91.935	VIOLET	C
1694A 0081000	#18 PE/GIFHDPE SH FR PVC	304.8	20.43	GRAY	C
1694A 0084500	#18 PE/GIFHDPE SH FR PVC	1371.6	91.935	GRAY	C
1694A 0091000	#18 PE/GIFHDPE SH FR PVC	304.8	20.43	WHITE	C
1694A 0094500	#18 PE/GIFHDPE SH FR PVC	1371.6	91.935	WHITE	C
1694A 0101000	#18 PE/GIFHDPE SH FR PVC	304.8	20.43	BLACK	C
1694A 0104500	#18 PE/GIFHDPE SH FR PVC	1371.6	91.935	BLACK	C
1694A 010500	#18 PE/GIFHDPE SH FR PVC	152.4	10.215	BLACK	C
1694A N3U1000	#18 PE/GIFHDPE SH FR PVC	304.8	20.43	GREEN, MIL	C
1694A N3U4500	#18 PE/GIFHDPE SH FR PVC	1371.6	91.935	GREEN, MIL	C

C = CRATE REEL PUT-UP.

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