1694F Coax - Precision Video Cable for Analog and Digital

Metric Version

For more information please call

1-800-Belden1

See Put-ups and Colors

Description:

19 AWG stranded (7x27) bare copper conductor, gas-injected foam HDPE insulation, double tinned copper braid shield (99% coverage), PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	6/U
AWG	19
Stranding	7x27
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 Type	Braid/Braid

Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1		Braid	TC - Tinned Copper	93
2		Braid	TC - Tinned Copper	93

Outer Shield %Coverage	99 %

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	7.01 mm

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +75°C
UL Temperature Rating	75°C

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Bulk Cable Weight	74.41 Kg/Km
Max. Recommended Pulling Tension	364.752 N
Min. Bend Radius (Install)	69.85 mm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

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):	01/01/2004

FLAME TEST:

UL Flame Test	UL1666 Vertical Shaft

SWEEP TEST:

Sweep Testing	100% Sweep tested 5 MHz to 4.5 GHz.

SUITABILITY:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes - Black only
Suitability - Aerial	Yes - 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
Plenum Number	1695A

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	0.348 µH/m
Nom. Capacitance Conductor to Shield	53.152 pF/m
Nominal Velocity of Propagation	81 %
Nominal Delay	4.101 ns/m
Nom. Conductor DC Resistance @ 20 Deg. C	27.888 Ohms/km
Nominal Outer Shield DC Resistance @ 20°C	5.578 Ohms/km

Minimum Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
		5	850	20
		850	4500	15

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			2.034
	10			2.362
	67.5			6.234
	71.5			6.562
	88.5			7.218
	100			7.874
	135			9.187
	143			9.515
	180			10.827
	270			13.124
	360			15.421
	540			19.358
	720			22.639
	750			22.967
	1000			26.904
	1500			34.122
	2000			40.356
	2250			43.309
	3000			51.184
	4500			64.964

Max. Operating Voltage - UL	300 V RMS
Max. Operating Voltage - Non-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. 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.

PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
1694F B591000	#19 GIFHDLDPE DBLB FRPVC	304.8	24.516	BLACK, MATTE	C
1694F G7V1000	#19 GIFHDLDPE DBLB FRPVC	304.8	24.516	RED, MATTE	C
1694F G7W1000	#19 GIFHDLDPE DBLB FRPVC	304.8	24.516	GREEN, MATTE	C
1694F G7X1000	#19 GIFHDLDPE DBLB FRPVC	304.8	24.516	BLUE, MATTE	C
1694F G7Y1000	#19 GIFHDLDPE DBLB FRPVC	304.8	24.516	WHITE, MATTE	C
1694F G8L1000	#19 GIFHDLDPE DBLB FRPVC	304.8	24.516	ORANGE, MATTE	C
1694F G8M1000	#19 GIFHDLDPE DBLB FRPVC	304.8	24.516	YELLOW, MATTE	C

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1694F Z4B1000	#19 GIFHDLDPE DBLB FRPVC	304.8	24.516	VIO Z4B	C

C = CRATE REEL PUT-UP.

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Belden believes this product to be in compliance with the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs.(San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003);Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (Directive 2003/11/EC, 6-Feb-2003). The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.
Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.