



Description:

RG-11/U type, 14 AWG solid .064" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	14	Solid	BC - Bare Copper	.064

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.280

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 Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.400 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 100 lbs/1000 ft.

Max. Recommended Pulling Tension: 145 lbs.

Min. Bend Radius (Install)/Minor Axis: 4 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

7731A Coax - Low Loss Serial Digital Coax

EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	11/U

Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only.
Suitability - Aerial:	Yes - Black only, when supported by a messenger wire

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	7732A

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/ft)

0.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.0

Nominal Velocity of Propagation:

VP (%)

85

Nominal Delay:

Delay (ns/ft)

1.21

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.5

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1	0.16
3.58	0.29
5	0.34
7	0.39
10	0.46
67.5	1.05
71.5	1.09
88.5	1.21
100	1.28
135	1.47
143	1.51
180	1.69
270	2.09
360	2.45

7731A Coax - Low Loss Serial Digital Coax

540	3.06
720	3.58
750	3.66
1000	4.30
1500	5.50
2000	6.40
2250	6.90
3000	8.20
4500	10.40

Max. Operating Voltage - UL:

Voltage
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.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	850	23
850	3000	21

Sweep Test

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7731A N3U1000	1,000 FT	95.000 LB	NATURAL & YELLOW W/BLUE TAPE	C	#14 PE/GIFHDLDP SH FRPVC
7731A N3U4000	4,000 FT	388.000 LB	NATURAL & YELLOW W/BLUE TAPE	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0011000	1,000 FT	95.000 LB	BROWN		#14 PE/GIFHDLDP SH FRPVC
7731A 0014000	4,000 FT	388.000 LB	BROWN	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0021000	1,000 FT	95.000 LB	RED	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0024000	4,000 FT	388.000 LB	RED	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0031000	1,000 FT	95.000 LB	ORANGE		#14 PE/GIFHDLDP SH FRPVC
7731A 0034000	4,000 FT	388.000 LB	ORANGE	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0041000	1,000 FT	95.000 LB	YELLOW		#14 PE/GIFHDLDP SH FRPVC
7731A 0044000	4,000 FT	388.000 LB	YELLOW	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0061000	1,000 FT	95.000 LB	BLUE, LIGHT		#14 PE/GIFHDLDP SH FRPVC
7731A 0064000	4,000 FT	388.000 LB	BLUE, LIGHT	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0071000	1,000 FT	95.000 LB	VIOLET	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0074000	4,000 FT	388.000 LB	VIOLET	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0081000	1,000 FT	95.000 LB	GRAY		#14 PE/GIFHDLDP SH FRPVC
7731A 0084000	4,000 FT	388.000 LB	GRAY	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0091000	1,000 FT	95.000 LB	WHITE		#14 PE/GIFHDLDP SH FRPVC
7731A 0094000	4,000 FT	388.000 LB	WHITE	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0101000	1,000 FT	95.000 LB	BLACK	C	#14 PE/GIFHDLDP SH FRPVC
7731A 0104000	4,000 FT	388.000 LB	BLACK	C	#14 PE/GIFHDLDP SH FRPVC
7731A 010500	500 FT	46.500 LB	BLACK	C	#14 PE/GIFHDLDP SH FRPVC

Notes:
C = CRATE REEL PUT-UP.

Precision Video Cable for Analog and Digital

RG-6/U and RG-11/U Type



Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m

RG-6/U Type • 18 AWG Solid .040" Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*

SDI/HDTV	1694A	NEC:	500 [▲]	152.4	20.5	9.3	18 AWG	.180	4.57	Duofoil + 95%	.275	6.99	75	82%	16.2	53.1	1	.2	.8
Digital Video		CMR	1000	304.8	45.0	20.5	(solid)			+ 95%							3.6	.5	1.5
75°C		CEC:	4500	1371.6	202.5	91.9	.040"			TC Braid							10	.7	2.4
		CMG FT4					BC			2.8Ω/M'							71.5	1.6	5.2
							6.4Ω/M'			9.2Ω/km							135	2.1	6.9
							21.0Ω/km										270	3.0	9.7
																	360	3.4	11.3
																	540	4.3	13.9
																	720	4.9	16.1
																	750	5.0	16.4
																	1000	5.9	19.3
																	1500	7.3	24.0
																	2250	9.1	30.0
																	3000	10.7	35.0

*500 ft. put-up available in Black only.

Gas-injected Foam HDPE Insulation • Black Low-Smoke, Zero-Halogen Jacket

SDI/HDTV	1694SB	NEC:	1000	304.8	46.0	20.9	18 AWG	.180	4.57	Duofoil + 95%	.274	6.96	75	82%	16.2	53.1	1	.2	.8
Digital Video		CMG-LS					(solid)			+ 95%							3.6	.5	1.5
75°C		CEC:					.040"			TC Braid							10	.7	2.4
		CMG-LS FT4					BC			2.8Ω/M'							71.5	1.6	5.2
		Limited Smoke					6.4Ω/M'			9.2Ω/km							135	2.1	6.9
							21.0Ω/km										270	3.0	9.7
																	360	3.4	11.3
																	540	4.3	13.9
																	720	4.9	16.1
																	750	5.0	16.4
																	1000	5.9	19.3
																	1500	7.3	24.0
																	2250	9.1	30.0
																	3000	10.7	35.0

Plenum • Foam FEP Insulation • Flam arrest® Jacket (Available in 10 colors)**

SDI/HDTV	1695A	NEC:	500 [†] *	152.4	20.5	9.3	18 AWG	.170	4.32	Duofoil + 95%	.234	5.94	75	82%	16.2	53.1	1	.2	.8
Digital Video		CMP	1000	304.8	45.0	20.5	(solid)			+ 95%							3.6	.5	1.5
75°C		CEC:					.040"			TC Braid							10	.8	2.5
		CMP FT6					BC			2.8Ω/M'							71.5	1.8	5.8
							6.4Ω/M'			9.2Ω/km							135	2.4	7.9
							21.0Ω/km										270	3.4	11.2
																	360	4.0	13.1
																	540	5.2	17.1
																	720	6.1	20.0
																	750	6.2	20.3
																	1000	7.3	24.0
																	1500	9.2	30.2
																	2250	11.6	38.0
																	3000	13.7	44.9

*500 ft. put-up available in Black or Natural only. Black jacket suitable for Indoor, Outdoor and Aerial applications.

RG-11/U Type • 14 AWG Solid .064" Bare Copper Conductor • Duofoil (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • PVC Jacket (Available in 10 colors)*

SDI/HDTV	7731A	NEC:	500 [▼]	152.4	46.5	21.1	14 AWG	.280	7.11	Duofoil + 95%	.405	10.3	75	85%	16.0	52.4	1	.2	.5
Digital Video		CMR	1000	304.8	95.0	43.1	(solid)			+ 95%							10	.5	1.5
75°C		CEC:	4000	1219.2	388.0	176.2	.064"			TC Braid							71.5	1.1	3.6
		CMG FT4					BC			1.5Ω/M'							135	1.5	4.8
							2.5Ω/M'			4.9Ω/km							270	2.1	6.9
							8.2Ω/km										360	2.5	8.0
																	540	3.1	10.0
																	720	3.6	11.7
																	750	3.7	12.0
																	1000	4.3	14.1
																	1500	5.5	18.0
																	2250	6.9	22.6
																	3000	8.2	26.9

*500 ft. put-up available in Red or Black only.

Plenum • Foam FEP Insulation • Fluorocopolymer Jacket (Available in 10 colors)**

SDI/HDTV	7732A	NEC:	500 [•]	152.4	45.0	20.5	14 AWG	.274	6.96	Duofoil + 95%	.348	8.84	75	83%	16.3	53.5	1	.2	.5
Digital Video		CMP	1000	304.8	90.0	40.9	(solid)			+ 95%							10	.4	1.3
150°C		CEC:	2000 ⁺	609.6	176.0	80.0	.064"			TC Braid							71.5	1.2	4.1
		CMG FT6					BC			1.6Ω/M'							135	1.8	5.8
							2.5Ω/M'			5.3Ω/km							270	2.6	8.5
							8.2Ω/km										360	3.1	10.2
																	540	3.9	12.8
																	720	4.6	15.0
																	750	4.7	15.4
																	1000	5.5	18.0
																	1500	6.9	22.7
																	2250	9.2	30.2
																	3000	10.2	33.5

*500 ft. put-up available in Black or Natural only.

**2000 ft. put-up available in Natural only.

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • HDPE = High-density Polyethylene • TC = Tinned Copper

* Non-Plenum Available in Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray or White.

** Plenum Available in Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray or Natural.

† Final put-up length may vary ±10% for spools or reels and ±5% for Unreel cartons from length shown.

