

Precision Video Cable for Analog and Digital

Sub-Miniature RG-59/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

25 AWG Stranded (19x37) .021" Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

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

75°C	1865A	NEC: CMR CEC: CMG FT4	1000	304.8	14.0	6.4	25 AWG (19x37) .021" BC 27.4Ω/M' 89.9Ω/km	.094	2.39	Duofoil + 95% TC Braid 5.4Ω/M' 17.7Ω/km	.150	3.81	75	82%	16.5	54.1	1	.5	1.5
																	3.6	1.0	3.1
																	10	1.6	5.2
																	71.5	3.7	12.1
																	135	5.0	16.4
																	270	7.1	23.3
																	360	8.2	26.9
																	540	10.1	33.1
																	720	11.8	38.7
																	750	12.0	39.4
																	1000	13.9	45.6
																	1500	17.0	55.8
																	2250	20.8	68.2
																	3000	24.0	78.7

100% Sweep tested. 5 MHz to 3 GHz.

23 AWG Solid .023" 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 Digital Video 75°C	1855A	NEC: CMR CEC: CMG FT4	500 [▲]	152.4	9.0	4.1	23 AWG (solid) .023" BC 20.1Ω/M' 65.9Ω/km	.102	2.59	Duofoil + 95% TC Braid 7.6Ω/M' 24.9Ω/km	.159	4.03	75	82%	16.3	53.5	1	.4	1.3
																	3.6	.8	2.6
																	10	1.2	3.9
																	71.5	3.1	10.0
																	135	3.8	12.5
																	270	5.4	17.7
																	360	6.2	20.3
																	540	7.7	25.3
																	720	9.5	31.1
																	750	9.6	31.5
																	1000	10.5	34.4
																	1500	13.0	42.6
																	2250	16.0	52.5
																	3000	18.5	60.7

Also available in multiples, bundled.

See 7787A through 7792A.

100% Sweep tested. 5 MHz to 3 GHz.

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

BC = Bare Copper • DCR = DC Resistance • HDPE = Foam High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

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

Precision Video Cable for Analog and Digital

RG-59/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

23 AWG Stranded (7x32) .023" Bare Compacted Copper* • Tinned Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black Polyethylene Jacket

80°C	8279	—	500	152.4	13.0	5.9	23 AWG (7x32)	.146	3.71	TC + 95% Shield	.220	5.59	75	66%	21.0	68.9	1	.4	1.1
			1000	304.8	29.0	13.2	.023" BCC			19.1Ω/M'							3.6	.6	2.0
							62.6Ω/km			4.5Ω/M'							10.0	1.2	3.9
										14.8Ω/km							71.5	3.3	10.8
																	135	4.7	15.4
																	270	6.8	22.3
																	360	8.0	26.2
																	540	9.9	32.5
																	720	11.6	38.0
																	750	11.9	39.0
																	1000	13.8	45.3



23 AWG Solid .022" Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black Polyethylene Jacket

80°C	9209	—	U-500	U-152.4	15.0	6.8	23 AWG (solid)	.146	3.71	Duofoil + 95% TC Braid	.220	5.59	75	66%	21.0	68.9	1	.4	1.2
			U-1000	U-304.8	29.0	13.2	.022" BC			20.4Ω/M'							3.6	.5	1.8
							66.9Ω/km			4.5Ω/M'							10.0	1.2	3.8
										14.8Ω/km							71.5	2.9	9.5
																	135	4.0	13.0
																	270	5.6	18.4
																	360	6.6	21.5
																	540	8.3	27.2
																	720	9.7	31.7
																	750	9.9	32.5
																	1000	11.6	38.0



Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket

UL AWM Style 1354 (30V 75°C)	9209A	NEC: CMR CEC: CMG FT4	U-1000	U-304.8	35.0	15.9	23 AWG (solid)	.146	3.71	Duofoil + 95% TC Braid	.220	5.59	75	66%	20.5	67.2	1	.4	1.2
							.022" BC			20.4Ω/M'							3.6	.5	1.8
							66.9Ω/km			4.5Ω/M'							10.0	1.2	3.8
										14.8Ω/km							71.5	2.9	9.5
																	135	4.0	13.0
																	270	5.6	18.4
																	360	6.6	21.5
																	540	8.6	28.3
																	720	10.1	33.2
																	750	10.4	34.1
																	1000	12.8	41.9



BC = Bare Copper • BCC = Bare Compacted Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

Precision Video Cable for Analog and Digital

RG-59/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

20 AWG Solid .032" 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	1505A	NEC:	500 [▲]	152.4	17.0	8.0	20 AWG	.145	3.68	Duofoil	.233	5.92	75	83%	16.3	53.5	1	.3	1.0
Digital Video		CMR	1000	304.8	35.0	16.4	(solid)			+ 95%							3.6	.6	1.8
75°C		CEC:	5000 [▼]	1524.0	165.0	74.8	.032"			TC Braid							10	.9	2.9
		CMG FT4					BC			3.8Ω/M'							71.5	2.1	6.9
						10.0Ω/M'			12.5Ω/km								135	2.7	8.9
						32.8Ω/km											270	3.8	12.5
																	360	4.4	14.4
																	540	5.5	18.0
																	720	6.4	21.0
																	750	6.5	21.3
																	1000	7.6	24.9
																	1500	9.3	30.5
																	2250	11.6	38.0
																	3000	13.4	44.0

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

▼5000 ft. put-up may vary in length by -0 to +10%.

▲1000 ft. and 5000 ft. put-ups available in all ten colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray or White.

22 AWG Stranded (7x29) .031" Bare Compacted Copper Conductor* • Tinned Copper/Bare Copper Double Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • PVC Jacket (Matte Black, Red, Green, Blue, Yellow, Orange, White or Purple)

High-Flex	1505F	NEC:	1000	304.8	45.0	20.4	22 AWG	.145	3.68	TC Double	.242	6.15	75	80%	17.0	55.7	1	.2	.7
SDI/HDTV		CM					(7x29)			Braid							3.6	.5	1.6
Video Patch		CEC:					.031"			95% Shield							10	.9	2.9
75°C		CM					BCC			Coverage							71.5	2.5	8.2
						12.2Ω/M'			2.4Ω/M'								135	3.5	11.5
						40.0Ω/km			7.8Ω/km								270	5.1	16.7
																	360	6.0	19.7
																	540	7.4	24.3
																	720	8.7	28.5
																	750	8.9	29.2
																	1000	10.5	34.4
																	1500	13.3	43.6
																	2250	16.9	55.4
																	3000	20.3	66.6

*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

20 AWG Solid .032" Bare Copper Conductor • Duofoil (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

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

SDI/HDTV	1506A	NEC:	500 ^{†*}	152.4	14.5	6.6	20 AWG	.133	3.38	Duofoil	.196	4.93	75	84%	16.1	52.8	1	.3	1.0
Digital Video		CMP	1000 ^{†*}	304.8	29.0	13.2	(solid)			+ 95%							3.6	.6	2.0
75°C		CEC:					.032"			TC Braid							10	1.1	3.4
		CMF FT6					BC			3.8Ω/M'							71.5	2.3	7.4
						10.0Ω/M'			10.5Ω/km								135	3.2	10.5
						32.8Ω/km											270	4.6	14.9
																	360	5.3	17.2
																	540	6.4	21.0
																	720	7.3	23.9
																	750	7.5	24.6
																	1000	9.4	30.8
																	1500	12.8	42.0
																	2250	17.5	57.4
																	3000	21.9	71.8

Suitable for Outdoor and Direct Burial applications.

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

*1000 ft. put-up available in all ten colors: Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray or Natural.

20 AWG Solid .031" Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)

Polyethylene Insulation • Gray PVC Jacket

60°C	9231	NEC:	500	152.4	39.0	17.7	20 AWG	.198	5.03	TC Double	.305	7.75	75	66%	21.0	68.9	1	.3	1.0
VW-1		CMH	1000	304.8	76.0	34.5	(solid)			Braid							3.6	.5	1.6
		CEC:					.031"			98% Shield							10.0	.8	2.6
		CMH FT1					BC			Coverage							71.5	2.0	6.6
						9.9Ω/M'			1.1Ω/M'								135	3.5	11.5
						32.5Ω/km			3.6Ω/km								270	4.3	14.1
																	360	5.0	16.4
																	540	6.2	20.3
																	720	7.2	23.6
																	750	7.4	24.3
																	1000	9.1	29.8

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

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.

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


Precision Video Cable for Analog and Digital

RG-59/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

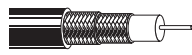
20 AWG Solid .031" Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage) (continued)

Polyethylene Insulation • Clear Polyethylene Jacket																			
Indoor Use 80°C	9141	—	1000	304.8	73.0	33.2	20 AWG (solid)	.200	5.06	TC Double Braid	.305	7.75	75	66%	20.0	65.6	1	.3	1.0
							.031"			98% Shield Coverage							3.6	.5	1.6
							BC										10.0	.8	2.6
							9.9Ω/M'										71.5	2.0	6.6
							32.5Ω/km										135	3.5	11.5
																	270	4.3	14.1
																	360	5.0	16.4
																	540	6.2	20.3
																	720	7.2	23.6
																	750	7.4	24.3
																	1000	9.1	29.8

20 AWG Solid .031" Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)


Polyethylene Insulation • Polyethylene Jacket (Available in Red, Yellow, Green, Blue, White, Orange or Black)																			
80°C	8281	—	500 [▲]	152.4	37.5	17.8	20 AWG (solid)	.198	5.03	TC Double Braid	.305	7.75	75	66%	21.0	68.9	1	.3	.8
			1000	304.8	74.0	33.6	.031"			98% Shield Coverage							3.6	.5	1.8
							BC										10.0	.8	2.6
							9.9Ω/M'										71.5	2.1	6.9
							32.5Ω/km										135	3.0	9.8
																	270	4.3	14.1
																	360	5.1	16.6
																	540	6.3	20.7
																	720	7.4	24.3
																	750	7.6	24.9
																	1000	9.2	30.2

*500 ft. put-up not available in White.

Flame-retardant Semi-foam Polyethylene Insulation • PVC Jacket (Available in 9 colors)*																			
UL AWM Style 1354 (30V 80°C)	8281B	NEC: CMR CEC: CMG FT4	1000	304.8	84.0	38.1	20 AWG (solid)	.198	5.03	TC Double Braid	.305	7.75	75	66%	21.0	68.9	1	.3	.8
							.031"			98% Shield Coverage							3.6	.5	1.8
							BC										10.0	.8	2.6
							9.9Ω/M'										71.5	2.1	6.9
							32.5Ω/km										135	3.0	9.8
																	270	4.4	14.4
																	360	5.1	16.6
																	540	6.6	21.5
																	720	7.8	25.4
																	750	8.0	26.2
																	1000	10.2	33.5


*8281B available in Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black.

22 AWG Stranded (7x29) .031" Bare Compacted Copper Conductor* • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)

Polyethylene Insulation • PVC Jacket (Matte Red, Blue, Green, Gray or Black)																			
High-Flex 60°C	8281F	—	500 [▲]	152.4	34.5	15.7	22 AWG (7x29)	.193	4.90	TC Double Braid	.305	7.75	75	66%	21.0	68.9	1	.3	.9
			1000	304.8	67.0	30.4	.031"			98% Shield Coverage							3.6	.5	1.7
							BCC										10.0	.9	2.9
							12.2Ω/M'										71.5	2.5	8.0
							40.0Ω/km										135	3.6	11.6
																	270	5.1	16.7
																	360	6.0	19.7
																	540	7.4	24.3
																	720	8.7	28.5
																	750	8.9	29.2
																	1000	10.5	34.4

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

20 AWG Solid .032" Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)

Plenum • FEP Insulation • Black Fluorocopolymer Jacket																			
150°C	88281	NEC: CMP CEC: CMP FT6	500	152.4	44.5	20.2	20 AWG (solid)	.185	4.70	TC Double Braid	.271	6.88	75	71%	19.0	62.4	1	.2	.7
			1000	304.8	86.0	39.1	.032"			98% Shield Coverage							3.6	.5	1.6
							BC										10.0	.8	2.6
							9.9Ω/M'										71.5	2.3	7.5
							32.5Ω/km										135	3.3	10.8
																	270	5.1	16.7
																	360	6.1	20.0
																	540	8.0	26.2
																	720	9.7	31.8
																	750	10.0	32.8
																	1000	12.3	40.3

Suitable for Outdoor and Direct Burial applications.

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

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.

*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

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	.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	.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 • Flammarrest® Jacket (Available in 10 colors)**

SDI/HDTV	1695A	NEC:	500 [†] *	152.4	20.5	9.3	18 AWG	.170	4.32	Duofoil	.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
		CMG 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	.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	.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

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG-U cables not listed.

* 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.



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

Precision Video Cable for Analog and Digital

Overview



Analog Video

Belden® precision video cables are used in critical analog and digital video circuits and high quality applications such as live broadcast in network studios and pre- or post-production facilities. They should be used where superior signal integrity is required.

Precision video cables usually have solid center conductors and dual shields. The dielectrics can either be foamed or solid. Tighter impedance and attenuation tolerances, superior Return Loss (RL) specifications, and improved shielding give precision video cables their no-compromise performance.

The frequency response loss curves of the solid dielectric cables, such as 8281, are different from those with foam dielectric, like 1505A. Therefore, different equalization equipment is necessary and commercially available. Avoid mixing 8281 and 1505A for this reason.

Digital Video

Precision video cables are also recommended for the latest digital video applications. Since its inception in the early '80s, digital broadcast is quickly becoming the preferred video format. The advantages of the digital format are many. Digital is very stable, minimizing equipment adjustments. Copies or reproductions retain the quality of the original. Signal degradation is virtually eliminated, and noise immunity is greatly improved. Digital video is transmitted over a cable in either a Parallel or Serial format.

Parallel Digital Video (D₁, D₂ & D₃)

The Parallel format transmits each bit of an 8 or 10 bit digital word simultaneously or parallel down a separate signal path at a frequency of 27 Mb/s. This type of transmission requires the use of a 100 to 120 ohm 12-1/2 pair data cable (Belden part nos. 8142 or 8112 page 19.56). These cables are limited to a transmission distance of less than 30 meters.

Serial Digital Video (SDI)

The Society of Motion Picture and Television Engineers (SMPTE) has developed two different standards for serial digital transmissions (SDI). A third format that transmits at 540 Mb/s is under development. There is also a European standards body known as ITU (formerly CCIR) that developed the specifications for Europe known as PAL. Each of these specifications differs in frequency and transmission technology, i.e., composite or component.

- **SMPTE 259M** — Covers digital video transmissions of composite NTSC 143 Mb/s (Level A) and PAL 177 Mb/s (Level B). It also covers 525/625 component transmissions of 270 Mb/s (Level C) and 360 Mb/s (Level D).
- **SMPTE 292M** — Covers the newest format for HDTV transmissions at 1.458 Gb/s.
- **SMPTE 344M** — Covers component widescreen transmissions of 540 Mb/s.
- **ITU-R BT.601** — International standard covers component PAL transmissions of 177 Mb/s.

Precision Video Cable for Analog and Digital

Sub-Miniature RG-59/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

28.5 AWG Solid .012" Bare Copper Conductor • Duobond® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

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

DigiTruck®	179DT	NEC:	500 [▲]	152.4	5.0	2.3	28.5 AWG	.056	1.42	Duobond	.100	2.54	75	77%	17.4	57.4	1	1.2	3.9
SDI/HDTV	new	CMR	1000	304.8	8.0	3.6	(solid)			(100%)							5	1.9	6.1
Digital Video		CEC:					.012"			+ TC Braid							10	2.4	7.8
75°C		CMG FT4					BC			(95% Cov.)							67.5	5.9	19.3
							108Ω/M'			8.9Ω/M'							71.5	6.0	19.6
							350Ω/km			29.2Ω/km							100	6.9	22.6
																	135	7.9	25.8
																	270	10.8	35.4
																	360	12.5	41.0
																	540	15.4	50.5
																	720	17.9	58.7
																	750	18.3	60.0
																	1000	21.3	69.9
																	1500	26.3	86.3
																	2000	30.8	101.1
																	2250	32.8	107.6
																	3000	38.3	125.7

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

25 AWG Stranded (19x37) .021" 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	1865A	NEC:	1000	304.8	14.0	6.4	25 AWG	.094	2.39	Duofoil	.150	3.81	75	82%	16.5	54.1	1	.5	1.5
Digital Video		CMR					(19x37)			(100%)							3.6	1.0	3.1
75°C		CEC:					.021"			+ TC Braid							10	1.6	5.2
		CMG FT4					BC			(95% Cov.)							71.5	3.7	12.1
							27.4Ω/M'			5.4Ω/M'							135	5.0	16.4
							89.9Ω/km			17.7Ω/km							270	7.1	23.3
																	360	8.2	26.9
																	540	10.1	33.1
																	720	11.8	38.7
																	750	12.0	39.4
																	1000	13.9	45.6
																	1500	17.0	55.8
																	2250	20.8	68.2
																	3000	24.0	78.7

23 AWG Solid .023" 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	1855A	NEC:	500 [▲]	152.4	9.0	4.1	23 AWG	.102	2.59	Duofoil	.159	4.03	75	82%	16.3	53.5	1	.4	1.3
Digital Video		CMR	1000	304.8	16.0	7.3	(solid)			(100%)							3.6	.8	2.6
75°C		CEC:					.023"			+ TC Braid							10	1.2	3.9
		CMG FT4					BC			(95% Cov.)							71.5	3.1	10.0
							20.1Ω/M'			7.6Ω/M'							135	3.8	12.5
							65.9Ω/km			24.9Ω/km							270	5.4	17.7
																	360	6.2	20.3
																	540	7.7	25.3
																	720	9.5	31.1
																	750	9.6	31.5
																	1000	10.5	34.4
																	1500	13.0	42.6
																	2250	16.0	52.5
																	3000	18.5	60.7

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

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

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

Precision Video Cable for Analog and Digital

Miniature RG-59/U Type



Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Insulation Diameter		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

23 AWG Stranded (7x32) .023" Bare Compacted Copper Conductor* • Tinned Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black Polyethylene Jacket

80°C	8279	—	500	152.4	13.0	5.9	23 AWG (7x32)	.146	3.71	TC + 95% Shield	.220	5.59	75	66%	21.0	68.9	1	.4	1.1
			1000	304.8	29.0	13.2	.023" BCC			4.5Ω/M'							3.6	.6	2.0
							19.1Ω/M'			14.8Ω/km							10.0	1.2	3.9
							62.6Ω/km										71.5	3.3	10.8
																	135	4.7	15.4
																	270	6.8	22.3
																	360	8.0	26.2
																	540	9.9	32.5
																	720	11.6	38.0
																	750	11.9	39.0
																	1000	13.8	45.3



23 AWG Solid .022" Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Polyethylene Insulation • Black Polyethylene Jacket

80°C	9209	—	U-500	U-152.4	15.0	6.8	23 AWG (solid)	.146	3.71	Duofoil + 95% TC Braid	.220	5.59	75	66%	21.0	68.9	1	.4	1.2
			U-1000	U-304.8	29.0	13.2	.022" BC			4.5Ω/M'							3.6	.5	1.8
							20.4Ω/M'			14.8Ω/km							10.0	1.2	3.8
							66.9Ω/km										71.5	2.9	9.5
																	135	4.0	13.0
																	270	5.6	18.4
																	360	6.6	21.5
																	540	8.3	27.2
																	720	9.7	31.7
																	750	9.9	32.5
																	1000	11.6	38.0



Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket

UL AWM Style 1354 (30V 75°C)	9209A	NEC: CMR CEC: CMG FT4	U-1000	U-304.8	35.0	15.9	23 AWG (solid)	.146	3.71	Duofoil + 95% TC Braid	.220	5.59	75	66%	21.0	68.9	1	.4	1.2
							.022" BC			4.5Ω/M'							3.6	.5	1.8
							20.4Ω/M'			14.8Ω/km							10.0	1.2	3.8
							66.9Ω/km										71.5	2.9	9.5
																	135	4.0	13.0
																	270	5.6	18.4
																	360	6.6	21.5
																	540	8.6	28.3
																	720	10.1	33.2
																	750	10.4	34.1
																	1000	12.8	41.9



BC = Bare Copper • BCC = Bare Compacted Copper • DCR = DC Resistance • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

Precision Video Cable for Analog and Digital

RG-59/U Type and Double Braided RG-59/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

20 AWG Solid .032" 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 Digital Video 75°C	1505A	NEC: 500 [▲] CMR 1000 [◆] CEC: 5000 [◆] CMG FT4	152.4	15.5	7.0	20 AWG (solid)	.145	3.68	Duofoil + 95% TC Braid	.233	5.92	75	83%	16.3	53.5	1	.3	1.0
			304.8	35.0	15.9	.032"			3.8Ω/M'							3.6	.6	1.8
			1524.0	165.0	74.8	10.0Ω/M'			12.5Ω/km							10	.9	2.9
						32.8Ω/km										71.5	2.1	6.9
																135	2.7	8.9
																270	3.8	12.5
																360	4.4	14.4
																540	5.5	18.0
																720	6.4	21.0
																750	6.5	21.3
																1000	7.6	24.9
																1500	9.3	30.5
																2250	11.6	38.0
																3000	13.4	44.0

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

◆1000 ft. and 5000 ft. put-ups available in all ten colors: Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black.

Plenum • Foam FEP Teflon® Insulation • Flamarrest® Jacket (Available in 10 colors)*

SDI/HDTV Digital Video 75°C	1506A	NEC: 500 [▼] CMP 1000 CEC: 5000 CMPT FT6	152.4	14.5	6.6	20 AWG (solid)	.133	3.38	Duofoil + 95% TC Braid	.196	4.98	75	84%	16.1	52.8	1	.3	1.0
			304.8	29.0	13.2	.032"			3.2Ω/M'							3.6	.6	2.0
						10.0Ω/M'			10.5Ω/km							10	1.1	3.4
						32.8Ω/km										71.5	2.3	7.4
																135	3.2	10.5
																270	4.6	14.9
																360	5.3	17.2
																540	6.4	21.0
																720	7.3	23.9
																750	7.5	24.6
																1000	9.4	30.8
																1500	12.8	42.0
																2250	17.5	57.4
																3000	21.9	71.8

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

◆1000 ft. put-up available in all ten colors: Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, Natural or Black.

22 AWG Stranded (7x29) .031" Bare Compacted Copper Conductor* • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)

Polyethylene Insulation • PVC Jacket (Matte Red, Blue, Green, Gray or Black)

High-Flex 60°C	8281F	—	500 [▲] 1000	152.4 304.8	34.5 67.0	15.7 30.4	22 AWG (7x29)	.198	4.90	TC Double Braid	.305	7.75	75	66%	21.0	68.9	1	.3	.9
							.031"			98% Shield Coverage							3.6	.5	1.7
							BCC			1.7Ω/M'							10.0	.9	2.9
							12.2Ω/M'			5.6Ω/km							71.5	2.5	8.0
							40.0Ω/km										135	3.6	11.6
																	270	5.1	16.7
																	360	6.0	19.7
																	540	7.4	24.3
																	720	8.7	28.5
																	750	8.9	29.2
																	1000	10.5	34.4

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

22 AWG Stranded (7x29) .031" Bare Compacted Copper Conductor* • Tinned Copper/Bare Copper Double Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • PVC Jacket (Matte Black, Red, Green, Blue, Yellow, White, Orange or Purple)

High-Flex 75°C	1505F	NEC: 1000 CM CEC: 5000 CM	304.8	45.0	20.4	22 AWG (7x29)	.145	3.68	TC Double Braid	.242	6.15	75	80%	17.0	55.7	1	.2	.7	
						.031"			95% Shield Coverage								3.6	.5	1.6
						BCC			2.4Ω/M'								10	.9	2.9
						12.2Ω/M'			7.8Ω/km								71.5	2.5	8.2
						40.0Ω/km											135	3.5	11.5
																	270	5.1	16.7
																	360	6.0	19.7
																	540	7.4	24.3
																	720	8.7	28.5
																	750	8.9	29.2
																	1000	10.5	34.4
																	1500	13.3	43.6
																	2250	16.9	55.4
																	3000	20.3	66.6

*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

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

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG/U cables not listed.

Teflon is a DuPont trademark.



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

Precision Video Cable for Analog and Digital

Double Braided RG-59/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

20 AWG Solid .031" Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)

Polyethylene Insulation • Gray PVC Jacket †

60°C	9231	NEC:	500	152.4	39.0	17.7	20 AWG (solid) .031"	.198	5.03	TC Double Braid	.305	7.75	75	66%	21.0	68.9	1	.3	1.0
VW-1		CMH	1000	304.8	76.0	34.5											3.6	.5	1.6
		CEC:															10.0	.8	2.6
		CMH FT1															71.5	2.0	6.6
																	135	3.5	11.5
																	270	4.3	14.1
																	360	5.0	16.4
																	540	6.2	20.3
																	720	7.2	23.6
																	750	7.4	24.3
																	1000	9.1	29.8

†Non-contaminating PVC jacket

Polyethylene Insulation • Clear Polyethylene Jacket

Indoor Use 80°C	9141	—	1000	304.8	73.0	33.2	20 AWG (solid) .031"	.200	5.06	TC Double Braid	.305	7.75	75	66%	20.0	65.6	1	.3	1.0
																	3.6	.5	1.6
																	10.0	.8	2.6
																	71.5	2.0	6.6
																	135	3.5	11.5
																	270	4.3	14.1
																	360	5.0	16.4
																	540	6.2	20.3
																	720	7.2	23.6
																	750	7.4	24.3
																	1000	9.1	29.8

20 AWG Solid .031" Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)

Polyethylene Insulation • Polyethylene Jacket (Available in Red, Yellow, Green, Blue, White, Orange or Black)

80°C	8281	—	500 [▲]	152.4	37.5	17.0	20 AWG (solid) .031"	.198	5.03	TC Double Braid	.305	7.75	75	66%	21.0	68.9	1	.3	.8
				1000	304.8	74.0											33.6	3.6	.5
																	10.0	.8	2.6
																	71.5	2.1	6.9
																	135	3.0	9.8
																	270	4.3	14.1
																	360	5.1	16.6
																	540	6.3	20.7
																	720	7.4	24.3
																	750	7.6	24.9
																	1000	9.2	30.2

[▲]500 ft. put-up not available in White.

Flame-retardant Semi-Foam Polyethylene Insulation • PVC Jacket (Available in 9 colors)*

UL AWM Style 1354 (30V 80°C)	8281B	NEC:	1000	304.8	84.0	38.1	20 AWG (solid) .031"	.198	5.03	TC Double Braid	.305	7.75	75	66%	21.0	68.9	1	.3	.8
		CMR															3.6	.5	1.8
		CEC:															10.0	.8	2.6
		CMG FT4															71.5	2.1	6.9
																	135	3.0	9.8
																	270	4.4	14.4
																	360	5.1	16.6
																	540	6.6	21.5
																	720	7.8	25.4
																	750	8.0	26.2
																	1000	10.2	33.5

*8281B available in Red, Orange, Yellow, Green, Blue, Purple, Gray, White or Black.

20 AWG Solid .031" Bare Copper Conductor • Tinned Copper/Bare Copper Double Braid Shield (98% Coverage)

Plenum • FEP Insulation • Black Fluorocopolymer Jacket

150°C	88281	NEC:	500	152.4	44.5	20.2	20 AWG (solid) .031"	.185	4.70	TC Double Braid	.271	6.88	75	70%	19.0	62.4	1	.2	.7
		CMP	1000	304.8	86.0	39.1											3.6	.5	1.6
		CEC:															10.0	.8	2.6
		CMP FT6															71.5	2.3	7.5
																	135	3.3	10.8
																	270	5.1	16.7
																	360	6.1	20.0
																	540	8.0	26.2
																	720	9.7	31.8
																	750	10.0	32.8
																	1000	12.3	40.3

Suitable for Outdoor and Direct Burial applications.

BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. **1-800-BELDEN-1**. Request quotations of RG/U cables not listed.

*Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

Precision Video Cable for Analog and Digital

Low Loss Serial Digital Coax 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	.274	6.96	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								2.8Ω/M'	For Plenum version of 1694A, see 1695A.						71.5	1.6	5.2
							BC		9.2Ω/km								135	2.1	6.9
							6.4Ω/M'										270	3.0	9.7
							21.0Ω/km										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	.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								2.8Ω/M'							71.5	1.6	5.2
		Limited Smoke					BC		9.2Ω/km								135	2.1	6.9
							6.4Ω/M'										270	3.0	9.7
							21.0Ω/km										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

Black jacket suitable for Indoor, Outdoor and Aerial applications.

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

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	.400	10.2	75	85%	16.0	52.4	1	.2	.5
Digital Video		CMR	1000	304.8	95.0	43.1	(solid)			+ 95%							3.6	.3	1.0
75°C		CEC:	4000	1219.2	388.0	176.0	.064"			TC Braid							10	.5	1.5
		CMG FT4								1.5Ω/M'							71.5	1.1	3.6
							BC		4.9Ω/km								135	1.5	4.8
							2.5Ω/M'										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 Teflon Insulation • Fluorocopolymer Jacket (Available in 10 colors)**

SDI/HDTV	7732A	NEC:	500 [•]	152.4	45.0	20.5	14 AWG	.274	6.96	Duofoil	.348	8.84	75	83%	16.3	53.5	1	.2	.5
Digital Video		CMR	1000	304.8	90.0	40.8	(solid)			+ 95%							3.6	.3	.9
150°C		CEC:	2000 [▼]	609.6	176.0	80.0	.064"			TC Braid							10	.4	1.3
		CMG FT6								1.6Ω/M'							71.5	1.2	4.1
							BC		5.3Ω/km								135	1.8	5.8
							2.5Ω/M'										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

Teflon is a DuPont trademark.

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of RG-U cables not listed.

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

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



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

VideoFLEX® Snake Cable for Precision Digital and Analog

Bundled Miniature and RG-59/U Type



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	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.

Miniature • 23 AWG Solid .023" Bare Copper Conductors • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below)

SDI/HDTV Digital Video 75°C/60°C (UL) (1855A Bundled)	7787A	NEC: CMR CEC: CMG FT4	3	500 1000	152.4 304.8	47.5 94.0	21.6 42.7	23 AWG (solid) .023"	.102 .159	2.55 4.03	Duofoil + 95% TC Braid 7.6Ω/M' 24.9Ω/km	.432	10.97	75	83%	16.5	54.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2500 3000	.4 .8 1.2 3.1 3.8 5.4 6.2 7.7 9.1 9.5 10.5 13.0 16.9 18.5	1.3 2.6 3.9 10.0 12.5 17.7 20.3 25.3 29.8 31.2 34.4 42.6 55.4 60.7
	7788A	NEC: CMR CEC: CMG FT4	4	1000	304.8	110.0	49.9	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.481	12.22					750 1000 1500 2500 3000	9.5 10.5 13.0 16.9 18.5	31.2 34.4 42.6 55.4 60.7
	7789A	NEC: CMR CEC: CMG FT4	5	500 1000	152.4 304.8	73.0 142.0	33.1 64.4	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.539	13.69							
	7790A	NEC: CMR CEC: CMG FT4	6	500 1000	152.4 304.8	88.5 176.0	40.2 79.8	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.597	15.16							
	7791A	NEC: CMR CEC: CMG FT4	10	500 1000	152.4 304.8	155.5 304.0	70.5 137.9	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.796	20.22							
	7792A	NEC: CMR CEC: CMG FT4	12	500 1000	152.4 304.8	178.5 367.0	81.0 166.5	same as above	.102 Coax OD: .159	2.55 4.03	same as above	.825	20.96							

Sweep tested 5 MHz to 3 GHz.

RG-59/U Type • 20 AWG Solid .032" Bare Copper Conductors • Duofoil (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below)

SDI/HDTV Digital Video 75°C/60°C (UL) (1505A Bundled)	7794A	NEC: CMR CEC: CMG FT4	3	500 1000	152.4 304.8	94.5 187.0	43.0 84.8	20 AWG (solid) .032"	.145 .235	3.68 5.97	Duofoil + 95% TC Braid 3.8Ω/M' 12.5Ω/km	.631	16.03	75	83%	16.2	53.1	1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2500 3000	.3 .6 .9 2.1 2.7 3.8 4.4 5.5 6.4 6.5 7.6 9.4 12.4 13.8	1.0 1.8 2.9 6.9 8.9 12.5 14.4 18.0 21.0 21.3 24.9 30.8 40.7 45.3
	7795A	NEC: CMR CEC: CMG FT4	4	500 1000	152.4 304.8	116.5 237.0	53.0 107.7	same as above	.145 Coax OD: .235	3.68 5.97	same as above	.706	17.93							
	7796A	NEC: CMR CEC: CMG FT4	5	500 1000	152.4 304.8	153.0 299.0	69.4 135.6	same as above	.145 Coax OD: .235	3.68 5.97	same as above	.790	20.07							
	7798A	NEC: CMR CEC: CMG FT4	10	500 1000	152.4 304.8	319.5 625.0	145.2 284.1	same as above	.145 Coax OD: .235	3.68 5.97	same as above	1.166	29.62							

Sweep tested 5 MHz to 3 GHz.

BC = Bare Copper • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

See Connector Reference Guide at www.belden.com for connector recommendations.

Color Code Chart

Cond.	Color	Cond.	Color	Cond.	Color
1	Red	5	Yellow	9	Purple
2	Green	6	Brown	10	Black
3	Blue	7	Orange	11	Pink
4	White	8	Gray	12	Tan



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr

VideoFLEX® Snake Cable for Precision Digital and Analog

RG-59/U and RG-6/U Types



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter	Nominal Core OD		Shielding Materials	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-59/U • 20 AWG Solid .032" Bare Copper Conductors • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (95% Coverage)

Plenum • Foam FEP Insulation • Plenum-Grade PVC Jackets (Color Code: See chart below) • **Center Spine • No Overall Jacket**

	300V RMS	1283S3 <small>new</small>	NEC: 3 CMP: 500 CEC: 1000 CMP	250 500 1000	76.2 152.4 304.8	26.3 54.0 103.0	11.9 24.5 46.7	20 AWG (solid) .032" BC 10.0Ω/M' 32.8Ω/km	.133	3.38	Duofoil (95%) + TC Braid 3.8Ω/M' 12.5Ω/km	.422	10.72	75	83%	16.2	53.1	1	.3	1.0	
																		3.6	.6	2.0	
																			10	.9	2.9
																			71.5	2.1	6.9
																			135	2.7	8.9
																			270	3.8	12.5
																			360	4.4	14.4
																			540	5.5	18.0
																			720	6.4	21.0
																			750	6.5	21.3
																		1000	7.6	24.9	
																		1500	9.4	30.8	
																		2500	12.4	40.7	
																		3000	13.8	45.3	

Sweep tested. 5 MHz to 3 GHz.

Suitable for Indoor and Outdoor applications.

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

Gas-injected Foam HDPE Insulation • Overall Matte Black PVC Jacket (Color Code: See chart below)

	SDI/HDTV Digital Video 75°C/60°C (UL) (1694A Bundled)	7710A	NEC: 3 CMR: 500 CEC: 1000 CMG FT4	500 1000	152.4 304.8	137.5 285.0	62.4 129.3	18 AWG (solid) .040" BC 6.4Ω/M' 21.0Ω/km	.180	4.57	Duofoil + 95% TC Braid Coax OD: .275 6.99 3.0Ω/M' 9.9Ω/km	.770	19.56	75	82%	16.2	53.1	1	.24	.8	
																			3.58	.45	1.5
																			5	.54	1.8
																			7	.63	2.1
																			10	.72	2.4
																			67.5	1.57	5.2
																			71.5	1.60	5.3
																			88.5	1.75	5.7
																			100	1.84	6.0
																			135	2.10	6.9
																		143	2.16	7.1	
																		180	2.42	7.9	
																		270	2.97	9.8	
																		360	3.43	11.3	
																		540	4.25	13.9	
																		720	4.95	16.2	
																		750	5.00	16.4	
																		1000	5.89	19.3	
																		1500	7.33	24.1	
																		2000	8.57	28.1	
																		2250	9.14	30.0	
																		3000	10.67	35.0	

Sweep tested 5 MHz to 3 GHz.

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

Contact the Belden Customer Service Department for a Comprehensive Connector Cross Reference. 1-800-BELDEN-1. Request quotations of cables not listed. See Connector Reference Guide at www.belden.com for connector recommendations.

Color Code Chart

Cond.	Color	Cond.	Color
1	Red	6	Brown
2	Green	7	Orange
3	Blue	8	Gray
4	White	9	Purple
5	Yellow	10	Black



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

Belden114@CableCon.kr / 0707-434-7704 / Fax. 02-744-0909 / www.CableCon.co.kr