

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	1505A	NEC:	500 [▲]	152.4	15.5	7.0	20 AWG (solid)	.145	3.68	Duofoil + 95%	.233	5.92	75	83%	16.3	53.5	1	.3	1.0
Digital Video		CMR	1000 [◆]	304.8	35.0	15.9				TC Braid							3.6	.6	1.8
75°C		CEC:	5000 [◆]	1524.0	165.0	74.8	.032"			BC	3.8Ω/M'						10	.9	2.9
		CMG FT4						10.0Ω/M'			12.5Ω/km						71.5	2.1	6.9
							32.8Ω/km				For Plenum version of 1505A, see 1506A.						135	2.7	8.9
											Also available in bundled versions. See 7794A through 7798A.						270	3.8	12.5
											100% Sweep tested. 5 MHz to 3 GHz.						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	1506A	NEC:	500 [▼]	152.4	14.5	6.6	20 AWG (solid)	.133	3.38	Duofoil + 95%	.196	4.98	75	84%	16.1	52.8	1	.3	1.0
Digital Video		CMR	1000	304.8	29.0	13.2				TC Braid							3.6	.6	2.0
75°C		CEC:					.032"			BC	3.2Ω/M'						10	1.1	3.4
		CMPT FT6						10.0Ω/M'			10.5Ω/km						71.5	2.3	7.4
							32.8Ω/km				100% Sweep tested. 5 MHz to 3 GHz.						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	8281F	—	500 [▲]	152.4	34.5	15.7	22 AWG (7x29)	.198	4.90	TC Double Braid	.305	7.75	75	66%	21.0	68.9	1	.3	.9
60°C			1000	304.8	67.0	30.4	.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				100% Sweep tested. 5 MHz to 830 MHz.						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	1505F	NEC:	1000	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
SDI/HDTV		CM					.031"			95% Shield Coverage							3.6	.5	1.6
Video Patch		CEC:						BCC			2.4Ω/M'						10	.9	2.9
75°C		CM						12.2Ω/M'			7.8Ω/km						71.5	2.5	8.2
							40.0Ω/km				100% Sweep tested. 5 MHz to 3 GHz.						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
																	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																	
		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

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