

Standard Analog Video Cable75 Ohm Coax
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 Solid .023" Bare Copper or Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)**Polyethylene Insulation • Black or Colored PVC Jacket ***

UL AWM Style 1354 (30V 75°C)	8241	NEC: CM	100	30.5	4.4	2.0	23 AWG	.146	3.71	BC Braid 95% Shield Coverage	.240	6.09	75	66%	20.5	67.3	1	.6	2.0
VW-1		U-1000 ▲	U-304.8	38.0	17.2	BCCS			2.6Ω/M'								100	3.4	11.2
300V RMS (UL)		1000	304.8	40.0	18.1	49.0Ω/M'			8.5Ω/km								200	4.9	16.1
1700V RMS (non-UL)		2000	609.6	80.0	36.3	160.7Ω/km											400	7.0	23.0
		5000	1524.0	200.0	90.7												700	9.7	31.8

For Plenum versions of 8241, see 88241 or 82241.



*U-1000 ft. put-up also available in Red, Orange, Yellow, Green, Blue or White.

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

UL AWM Style 1354 (30V 75°C)	8241A	NEC: CMG	U-1000	U-304.8	40.0	18.1	23 AWG (solid)	.146	3.71	BC Braid 95% Shield Coverage	.242	6.15	75	66%	20.5	67.3	1	.6	2.0
300V RMS (UL)		CEC: CMG FT4	1000	304.8	42.0	19.0	.023"			2.6Ω/M'							50	2.4	7.9
							49.0Ω/M'			8.5Ω/km							100	3.4	11.2
							160.7Ω/km										200	4.9	16.1
																	400	7.0	23.0

Suitable for Indoor and Outdoor applications.



Suitable for Indoor and Outdoor applications.

Polyethylene Insulation • Black PVC Jacket

UL AWM Style 1354 (30V 80°C)	8241B	NEC: CM	U-1000	U-304.8	36.0	16.3	23 AWG (solid)	.146	3.71	BC Braid 95% Shield Coverage	.242	6.15	75	66%	20.5	67.3	1	.4	1.3
300V RMS (UL)		CEC: CM	1000	304.8	37.0	16.8	.023"			2.9Ω/M'							10	1.1	3.6
1700V RMS (non-UL)							BC			9.5Ω/km							50	2.4	7.9
							20.4Ω/M'										100	3.4	11.2
							66.9Ω/km										200	4.9	16.1

Suitable for Indoor and Outdoor applications.



Suitable for Indoor and Outdoor applications.

22 AWG Stranded (7x30) .030" Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)**Foam Polyethylene Insulation • PVC Jacket (Available in Matte Black, Red, Blue, Green, Yellow, White or Gray)**

High-Flex 60°C	8241F	—	1000	304.8	35.0	15.9	22 AWG (7x30)	.146	3.71	BC Braid 95% Shield Coverage	.242	6.15	75	78%	17.3	56.8	1	.3	1.0
300V RMS (non-UL)							.030"			BC							10	.9	3.0
							15.0Ω/M'			8.5Ω/km							50	2.1	6.9
							49.2Ω/km										100	3.0	9.8
																	200	4.5	14.8

Suitable for Indoor and Outdoor applications.

**23 AWG Solid .023" Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (97% Coverage)****Plenum • FEP Insulation • Black FEP Jacket**

200°C	88241	NEC: CMP	500	152.4	18.0	8.2	23 AWG (solid)	.132	3.35	BC Braid 97% Shield Coverage	.190	4.83	75	69.5%	19.5	64.0	1	.5	1.6
300V RMS (UL)		CEC: CMP FT6	1000	304.8	36.0	16.3	.023"			2.6Ω/M'							10	1.0	3.3
1700V RMS (non-UL)							49.0Ω/M'			8.5Ω/km							50	2.3	7.5
							160.7Ω/km										100	3.3	10.8
																	200	5.2	17.1

Suitable for Outdoor and Direct Burial applications.



Suitable for Outdoor and Direct Burial applications.

Plenum • FEP Insulation • Natural Flammarrest® Jacket

60°C	82241	NEC: CMP	U-500	U-152.4	18.5	8.4	23 AWG (solid)	.134	3.40	BC Braid 97% Shield Coverage	.190	4.83	75	69.5%	19.5	64.0	1	.5	1.6
300V RMS (UL)		CEC: CMP FT6	U-1000	U-304.8	36.0	16.3	.023"			2.6Ω/M'							10	1.0	3.3
1700V RMS 75°C (non-UL)			1000	304.8	34.0	15.4	49.0Ω/M'			8.5Ω/km							50	2.3	7.5
							160.7Ω/km										100	3.3	10.8
																	200	5.2	17.1

Suitable for Outdoor and Direct Burial applications.



BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance

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

Standard Analog Video Cable75 Ohm Coax
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 Solid Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (95% Coverage)**Polyethylene Insulation • Black PVC Jacket**

UL AWM	8263	NEC:	U-500	U-152.4	19.5	8.9	23 AWG	.146	3.71	BC Braid	.242	6.15	75	66%	20.5	67.3	1	.6	2.0
Style 1354		CMX:	U-1000	U-304.8	38.0	17.2	(solid)			95% Shield							10	1.1	3.6
(30V 60°C)		CEC:	1000	304.8	39.0	17.7	.023"			Coverage							50	2.4	7.9
VW-1		CMX:					BCCS			2.6Ω/M'							100	3.4	11.2
							49.0Ω/M'			8.5Ω/km							200	4.9	16.1
							160.7Ω/km										400	7.0	23.0
																	700	9.7	31.8
																	900	11.1	36.4
																	1000	12.0	39.4

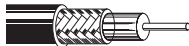


150V RMS (UL), 1700V RMS (non-UL)

Non-contaminating Black PVC Jacket. Suitable for Indoor and Outdoor applications.

22 AWG Solid Bare Copper-covered Steel Conductor • Bare Copper Braid Shield (85% Coverage)**Polyethylene Insulation • Black PVC Jacket**

UL AWM	9244	NEC:	U-500	U-152.4	18.0	8.2	22 AWG	.146	3.71	BC Braid	.242	6.15	75	66%	19.4	63.6	1	.6	2.0
Style 1354		CMX:	U-1000	U-304.8	35.0	15.9	(solid)			85% Shield							10	1.1	3.6
(30V 80°C)		CEC:	1000	304.8	36.0	16.4	.025"			Coverage							50	2.4	7.9
VW-1		CMX:	3280	1000.0	118.1	53.8	BCCS			4.5Ω/M'							100	3.4	11.2
							50.0Ω/M'			14.8Ω/km							200	4.9	16.1
							164.0Ω/km										400	7.0	23.0
																	700	9.7	31.8
																	900	11.1	36.4
																	1000	12.0	39.4

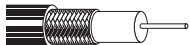


150V RMS (UL), 1700V RMS (non-UL)

Suitable for Indoor and Outdoor applications.

Foam Polyethylene Insulation • Black PVC Jacket

75°C	8221	—	U-500	U-152.4	18.5	8.4	22 AWG	.146	3.71	BC Braid	.242	6.15	80	78%	16.3	53.5	1	.4	1.4
300V RMS (non-UL)			500	152.4	17.0	7.7	(solid)			95% Shield							10	.9	3.0
			U-1000	U-304.8	36.0	16.3	.025"			Coverage							50	2.0	6.6
			1000	304.8	37.0	16.8	BCCS			2.6Ω/M'							100	2.9	9.5
							50.0Ω/M'			8.5Ω/km							200	4.1	13.4
							164.0Ω/km										400	5.9	19.4
																	700	7.8	25.6
																	900	8.8	28.9
																	1000	9.9	32.5



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			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/ 100 Ft.	dB/ 100m

22 AWG Stranded (7x30) .030" Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)**Foam Polyethylene Insulation • Black PVC Jacket**

UL AWM Style 1354 (30V 80°C) VW-1, FT-1	9659	NEC: CMX CEC: CMX	U-500 U-1000 1000	U-152.4 U-304.8 304.8	19.0 37.0 38.0	8.6 16.8 17.2	22 AWG (7x30) .030"	.146 3.71	3.71	BC Braid 95% Shield Coverage BC 2.6Ω/M' 8.5Ω/km	.242 6.15	6.15	75	78%	17.3 56.7	56.7	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 8.9 10.1 10.9	1.0 3.0 6.9 9.8 14.8 21.6 29.2 33.1 35.8
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Non-contaminating PVC Jacket. For CCTV, Indoor and Outdoor applications.

UL AWM Style 1354 (30V 80°C) 300V RMS (UL)	9259	NEC: CM CEC: CM	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.1 8.2 7.5 15.9 16.8	1.9 8.2 7.5 15.9 16.8	22 AWG (7x30) .030"	.146 3.71	3.71	BC Braid 95% Shield Coverage BC 2.6Ω/M' 8.5Ω/km	.241 6.12	6.12	75	78%	17.3 56.7	56.7	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 8.9 10.1 10.9	1.0 3.0 6.9 9.8 14.8 21.7 29.2 33.1 35.8
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For CCTV, Indoor and Outdoor applications.

Plenum • Foam FEP Insulation • Black FEP Jacket

200°C 300V RMS (UL)	89259	NEC: CMP CEC: CMP FT6	100 500 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.1 7.3 14.5	2.3 7.3 14.5	22 AWG (7x30) .030"	.135 3.43	3.43	BC Braid 95% Shield Coverage BC 2.6Ω/M' 8.5Ω/km	.193 4.90	4.90	75	78%	17.3 56.7	56.7	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 9.0 10.1 11.0	1.0 3.0 6.9 9.8 14.8 21.6 29.5 33.1 36.1
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Suitable for Outdoor and Direct Burial applications.

Plenum • Foam FEP Insulation • Natural Flamarrest® Jacket

75°C 300V RMS (UL)	82259	NEC: CMP CEC: CMP FT6	U-1000 1000	U-304.8 304.8	31.0 30.0	14.1 13.6	22 AWG (7x30) .030"	.135 3.43	3.43	BC Braid 95% Shield Coverage BC 2.6Ω/M' 8.5Ω/km	.193 4.90	4.90	75	78%	17.3 56.7	56.7	1 10 50 100 200 400 700 900 1000	.3 .9 2.1 3.0 4.5 6.6 9.0 10.1 11.0	1.0 3.0 6.9 9.8 14.8 21.6 29.5 33.1 36.1
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BC = Bare Copper • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene

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