

50 Ohm Transmission and Computer Cable

RG-8X and RG-8/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-8X Type • 16 AWG Stranded (19x29) .058" Bare Copper Conductor • Bare Copper Braid Shield (95% Coverage)

Gas-injected FPE Insulation • Black PVC Jacket

UL AWM	9258	NEC:	U-500	U-152.4	20.0	9.1	16 AWG	.155	3.94	BC Braid	.242	6.15	50	82%	24.8	75.6	1	.3	1.0
Style 1354		CM	500	152.4	18.5	8.4	(19x29)			95% Shield							10	.9	3.0
(30V 80°C)		CEC:	U-1000	U-304.8	39.0	17.7	.058"			Coverage							50	2.1	6.9
		CM	1000	304.8	40.0	18.2	BC			3.3Ω/M'							100	3.1	10.2
							4.3Ω/M'			10.8Ω/km							200	4.5	14.8
						14.1Ω/km										400	6.6	21.7	
																700	9.1	29.9	
																900	10.7	35.1	
																1000	11.2	36.7	

*1000 ft. put-up also available in White.
Suitable for Outdoor and Aerial applications.

RG-8/U Type • 13 AWG Stranded (7x21) .085" Bare Copper Conductor • Bare Copper Braid Shield (97% Coverage)

Polyethylene Insulation • Black PVC Jacket

75°C	8237	NEC:	100	30.5	13.6	6.2	13 AWG	.285	7.24	BC Braid	.405	10.29	52	66%	28.5	93.5	1	.2	.5
		CMH	500	152.4	58.0	26.3	(7x21)			97% Shield							10	.6	1.8
		CEC:	1000	304.8	114.0	51.7	.085"			Coverage							50	1.3	4.3
		CMH FT1					BC			1.2Ω/M'							100	1.9	6.2
							1.9Ω/M'			3.9Ω/km							200	2.8	9.2
						6.2Ω/km										400	4.2	13.8	
																700	5.9	19.4	
																900	6.9	22.6	
																1000	7.4	24.3	
																4000	23.2	76.1	

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Suitable for Outdoor and Aerial applications.

Polyethylene Insulation • Black Non-contaminating PVC Jacket

UL AWM	9251	NEC:	500	152.4	58.0	26.3	13 AWG	.285	7.24	BC Braid	.405	10.29	52	66%	28.5	93.5	1	.2	.5
Style 1354		CMX	1000	304.8	115.0	52.3	(7x21)			97% Shield							10	.6	1.8
(30V 60°C)		CEC:					.085"			Coverage							50	1.3	4.3
		CMX					BC			1.2Ω/M'							100	1.9	6.2
							1.9Ω/M'			3.9Ω/km							200	2.8	9.2
						6.2Ω/km										400	4.2	13.8	
																700	5.9	19.4	
																900	6.9	22.6	
																1000	7.4	24.3	
																4000	23.2	76.1	

MIL-C-17D

RG-8/U Type • 11 AWG Stranded (7x19) .108" Bare Copper Conductor • Bare Copper Braid Shield (97% Coverage)

Foam Polyethylene Insulation • Black PVC Jacket

UL AWM	8214	NEC:	100	30.5	14.2	6.5	11 AWG	.285	7.24	BC Braid	.403	10.24	50	78%	26	85.3	1	.1	.5
Style 1354		CM	500	152.4	61.0	27.7	(7x19)			97% Shield							10	.5	1.7
(30V 80°C)		CEC:	1000	304.8	121.0	55.0	.108"			Coverage							50	1.2	3.9
		CM					BC			1.1Ω/M'							100	1.7	5.6
							1.2Ω/M'			3.6Ω/km							200	2.6	8.5
						3.9Ω/km										400	3.9	12.8	
																700	5.6	18.4	
																900	6.5	21.3	
																1000	7.0	23.0	
																4000	21.5	70.5	

Suitable for Outdoor and Aerial applications.

BC = Bare Copper • DCR = DC Resistance • FPE = Foam Polyethylene • 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.


50 Ohm Transmission and Computer Cable

RG-8/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

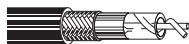
RG-8/U Type • 10 AWG Solid .108" Bare Copper Conductor • Duobond® II + Tinned Copper Braid Shield (90% Coverage)

Semi-solid Polyethylene Insulation • Black PVC Jacket

Low Loss 80°C	9913	—	100	30.5	14.2	6.4	10 AWG	.286	7.26	Duobond II* + 90% TC Braid	.405	10.29	50	84%	24.6	80.7	1	.3	1.0
			250	76.2	31.8	14.4	(solid)		10								.5	1.7	
			500	152.4	57.0	25.9	.108"			1.8Ω/M' 5.9Ω/km							50	1.0	3.3
			100	1.4	4.6														
			200	1.8	6.0														
			400	2.6	8.5														
			700	3.6	11.8														
			900	4.1	13.5														
1000	4.4	14.4																	
4000	9.5	31.1																	


Suitable for Outdoor and Aerial applications.

Plenum • Semi-solid FEP Insulation • Black Fluorocopolymer Jacket

150°C	89913	NEC: CMP	500†	152.4	63.0	28.6	10 AWG	.295	7.49	Duobond II* + 90% TC Braid	.364	9.25	50	83%	25.0	82.0	1	.1	.3
			1000†	304.8	128.0	58.2	(solid)		10								.4	1.3	
		CEC: CMP FT6	500	152.4	52.5	23.8	.108"			1.8Ω/M' 5.9Ω/km							50	1.0	3.3
			100	1.6	5.2														
			200	2.3	7.5														
			400	3.4	11.1														
			700	5.0	16.4														
			900	6.0	19.7														
1000	6.9	22.6																	
4000	17.0	55.8																	

RG-8/U Type • 10 AWG Stranded (7x19) .108" Bare Copper Conductor • Duobond II + Tinned Copper Braid Shield (95% Coverage)


Gas-injected Foam HDPE Insulation • Matte Black Belflex® Jacket

Low Loss High-Flex 80°C	9913F7	—	100	30.5	12.5	5.7	10 AWG	.285	7.24	Duobond II* + 95% TC Braid	.405	10.29	52	85%	22.5	80.7	1	.4	1.3
			250	76.2	27.8	12.6	(7x19)		10								.6	2.0	
			500	152.4	52.5	23.8	.108"			1.8Ω/M' 5.9Ω/km							50	1.1	3.6
			100	1.5	4.9														
			200	2.0	6.6														
			400	3.0	9.8														
			700	4.0	13.1														
			900	4.7	15.4														
1000	5.0	16.4																	
4000	12.1	39.7																	

Suitable for Outdoor and Aerial applications.

RG-8/U Type • 10 AWG Solid .103" Bare Copper Conductor • Duobond II + Tinned Copper Braid Shield (95% Coverage)

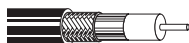
Gas-injected Foam HDPE Insulation • Black PVC Jacket

Low Loss UL AWM Style 1354 (30V 80°C)	9914	NEC: CMG	500	152.4	56.0	25.4	10 AWG	.285	7.24	Duobond II* + 95% TC Braid	.403	10.24	50	82%	24.8	81.4	1	.4	1.3
			1000	304.8	114.0	51.7	(solid)		10								.5	1.7	
		CEC: CMG FT4	500	152.4	52.5	23.8	.103"			1.8Ω/M' 3.9Ω/km							50	1.0	3.3
			100	1.4	4.6														
			200	1.8	6.0														
			400	2.6	8.5														
			700	3.6	11.8														
			900	4.1	13.5														
1000	4.4	14.4																	
4000	9.9	32.5																	

Suitable for Outdoor and Aerial applications.

RG-8/U Type • 10 AWG Solid .108" Bare Copper Conductor • Duofoil® (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)

Plenum • Foam FEP Insulation • Black Fluorocopolymer Jacket

Low Loss 125°C	7733A	NEC: CMP	500	152.4	53.5	24.3	10 AWG	.280	7.11	Duofoil + 90% TC Braid	.355	9.01	50	84%	24.2	79.4	1	.1	.3
			1000	304.8	105.0	47.7	(solid)		10								.4	1.3	
		CEC: CMP FT6	500	152.4	52.5	23.8	.108"			1.8Ω/M' 5.9Ω/km							50	1.1	3.6
			100	1.5	4.9														
			200	2.1	6.9														
			400	3.2	10.5														
			700	4.5	14.8														
			900	5.7	18.7														
1000	5.9	19.4																	
4000	14.1	46.3																	

Suitable for Outdoor and Aerial applications.

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

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*Duobond II = Bonded Duofoil (100% coverage) + aluminum braid (67% coverage).

†Spools are one piece, but length may vary ±10% from length shown.