Broadband Coax
Headend Cables

BROADBAND

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric) inch	Nominal Core OD (Dielectric) mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m

20 AWG • Solid 0.8 mm Silver-Plated Copper-Covered Steel • **Duobond Plus®** • 95 % Aluminum Braid

Gas-Injected Foam Polyethylene Insulation • PVC Jacket (available in Black, Grey, White, Red, Blue, Yellow, Brown, Orange, Green, Purple, Beige, Pink or Aqua)

80°C	**9167**	NEC: CATVR CMR CEC: CMG FT4	1000	305	27.1	12.3	0.81 mm 20 AWG Solid SPCCS 99.4 Ω/km* 84.6 Ω/km**	0.144	3.66	Duobond Plus® + 95 % AL Braid 14.8 Ω/km*** 4.3 mm	0.242	6.15	75	83 %	16.2	53.1	5	0.8	2.5
																	50	1.8	6.0
																	240	3.6	11.7
																	450	5.0	16.3
																	862	7.0	22.9
																	1000	7.7	25.2


Shorting Fold

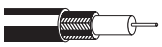
Return loss at 5-470 MHz: ≥ 20 dB; 470-862 MHz: ≥ 18 dB; 862-2150 MHz: ≥ 16 dB

Screening attenuation at 30-1000 MHz: ≥ 85 dB
Sweep tested. 5 MHz to 1 GHz.

23 AWG • Solid 0.6 mm Copper-Covered Steel • 95 % Bare Copper Braid

Polyethylene Insulation • Black PVC Jacket

70°C	**MRG5900**		328	100	10.1	4.6	0.58 mm Solid CCS 94.0 Ω/km* 79.0 Ω/km**	0.146	3.70	95 % BC Braid 15.0 Ω/km*** 4.3 mm	0.242	6.15	75	66 %	20.4	67.0	5	0.9	2.9
			B-328	B-100	10.1	4.6											50	2.4	8.0
			B-656	B-200	20.3	9.2											100	3.5	11.6
			1640	500	50.7	23.0											230	5.2	17.2
			3280	1000	101.4	46.0											400	7.6	25.0
																	800	11.5	37.8
																	862	12.0	39.2
																	1000	13.1	42.9
																	1350	15.2	50.0
																	1750	17.4	57.0
																	2150	19.2	63.0



Return loss at 5-470 MHz: ≥ 20 dB; 470-1000 MHz: ≥ 18 dB; 1000-2000 MHz: ≥ 16 dB; 2000-3000 MHz: ≥ 15 dB

Screening attenuation at 30-1000 MHz: ≥ 65 dB

23 AWG • Solid 0.6 mm Bare Copper • 92 % Double Tinned Copper Braid

Polyethylene Insulation • Black PVC Jacket

70°C	**H106T00**		B-328	B-100	12.6	5.7	0.58 mm Solid BC 97.5 Ω/km* 79.0 Ω/km**	0.146	3.70	92 % TC Braid + 92 % TC Braid 18.5 Ω/km*** 4.9 mm	0.236	6.00	75	66 %	20.4	67.0	5	0.7	2.4
			1640	500	62.8	28.5											50	2.4	8.0
																	100	3.5	11.6
																	230	5.6	18.3
																	400	7.6	25.0
																	800	11.5	37.8
																	862	12.0	39.2
																	1000	13.1	42.9

Return loss at 5-470 MHz: ≥ 20 dB; 470-1000 MHz: ≥ 18 dB

Screening attenuation at 30-1000 MHz: ≥ 75 dB

Polyethylene Insulation • Grey FRNC Jacket

70°C	**H106T01**	IEC 332-1	1640	500	63.9	29.0	0.58 mm Solid BC 97.5 Ω/km* 79.0 Ω/km**	0.146	3.70	92 % TC Braid + 92 % TC Braid 18.5 Ω/km*** 4.9 mm	0.236	6.00	75	66 %	20.4	67.0	see above		

Return loss at 5-470 MHz: ≥ 20 dB; 470-1000 MHz: ≥ 18 dB

Screening attenuation at 30-1000 MHz: ≥ 75 dB

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • BC = Bare Copper • TC = Tinned Copper • SPCCS = Silver-Plated Copper-Covered Steel • AL = Aluminum • CCS = Copper-Covered Steel

Duobond Plus® see technical information page 23.13.

Standard Analog Video Cables

75 Ohm Coax

BRILLIANCE®

Description	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/ 100 ft.	Nominal Attenuation dB/ 100 m

23 AWG • Solid 0.6 mm Copper-Covered Steel Conductor • 95 % Bare Copper Braid

Polyethylene Insulation • Black PVC Jacket

30V RMS	**8241**	NEC:	100	31	4.4	2.0	0.58 mm	0.146	3.71	95% BC	0.240	6.10	75	66%	20.5	67.3	1	0.6	2.0
75°C		CM	U-500	U-152	19.5	8.8	23 AWG			Braid							10	1.1	3.6
UL AWM Style 1354, VW1			500	152	18.5	8.4	Solid CCS			8.5 Ω/km***							50	2.4	7.9
			U-1000	U-305	38.0	17.2	169.2 Ω/km*										100	3.4	11.2
			1000	305	40.0	18.1	160.7 Ω/km**										200	4.9	16.1
			2000	610	80.0	36.3											400	7.0	23.0
			5000	1524	200.0	90.7											700	9.7	31.8
0.6/3.7																	900	11.1	36.4
RG-59/U Typ																	1000	12.0	39.4

U-305 m put-up also available in Red, Yellow, Green, Light Blue, White, Orange and Black.

Nominal Delay: 5.053 ns/m
Pulling Tension: 276 N

22 AWG • Stranded (7x30) 0.8 mm Bare Copper Conductor • 95 % Bare Copper Braid

Polyethylene Insulation • Black PVC Jacket

30V RMS	**9259**	NEC:	100	31	4.1	1.9	0.76 mm	0.146	3.71	95% BC	0.241	6.12	75	78%	17.3	56.7	1	0.3	1.0
80°C		CM	U-500	U-152	18.1	8.2	22 AWG			Braid							10	0.9	3.0
UL AWM Style 1354		CEC:	500	152	16.6	7.5	(7x30) BC			8.5 Ω/km***							50	2.1	6.9
		CM	U-1000	U-305	35.0	15.9	57.7 Ω/km*										100	3.0	9.8
			1000	305	37.0	16.8	49.2 Ω/km**										200	4.5	14.8
																	400	6.6	21.7
0.7/3.7																	700	8.9	29.2
																	900	10.1	33.1
For CCTV applications.																	1000	10.9	35.8

Nominal Delay: 5.053 ns/m
Pulling Tension: 275 N

20 AWG • Solid 0.8 mm Bare Copper • 98 % Tinned Copper Double Braid

Polyethylene Insulation • Polyethylene Jacket (Red, Yellow, Green, Light Blue, White, Orange and Black)

80°C	**8281**		500	152	37.5	17.0	0.81 mm	0.198	5.03	Double Braid	0.305	7.75	75	66%	21.0	68.9	1	0.3	1.0
			1000	305	74.0	33.6	20 AWG			98% TC							3.6	0.5	1.6
							Solid BC			3.6 Ω/km***							10	0.8	2.6
							36.1 Ω/km*										71.5	2.1	6.9
							32.5 Ω/km**										135	3.0	9.8
																	270	4.3	14.1
0.8/5.0																	360	5.1	16.7
RG-59/U Type																	540	6.3	20.7
																	720	7.4	24.3
152 m put-up not available in White.																	750	7.6	24.9
																	1000	9.2	30.2

Nominal Delay: 5.053 ns/m
Pulling Tension: 515 N

18 AWG • Solid 1.0 mm Bare Copper • **Duofoil®** • 60 % Tinned Copper Braid

Gas-Injected Foam HDPE Insulation • Black PVC Jacket

30V RMS	**9248**	NEC:	U-500	U-152	16.5	7.5	1.02 mm	0.180	4.57	Duofoil®	0.270	6.86	75	82%	16.2	53.1	1	0.3	1.0
80°C		CM	500	152	15.0	6.8	18 AWG			+ 60% TC							10	0.7	2.3
UL AWM Style 1354		CEC:	U-1000	U-305	32.0	14.5	Solid BC			Braid							50	1.5	4.9
		CM	1000	305	33.0	15.0	39.4 Ω/km*			18.4 Ω/km***							100	2.0	6.6
			1640	500	55.8	25.3	21.0 Ω/km**										200	2.8	9.2
			3280	1000	108.2	49.1											400	4.0	13.1
																	700	5.3	17.4
1.0/4.6																	900	6.1	20.0
RG-6																	1000	6.5	21.3
																	1500	8.3	27.2

Nominal Delay: 4.068 ns/m
Pulling Tension: 195 N

14 AWG • Solid 1.6 mm Bare Copper • **Duofoil®** • 60 % Tinned Copper Braid

Gas-Injected Foam HDPE Insulation • Black PVC Jacket

80°C	**9292**		1000	305	75.0	34.0	1.63 mm	0.280	7.11	Duofoil®	0.405	10.29	75	84%	16.1	52.8	1	0.2	0.6
							14 AWG			+ 60% TC							10	0.5	1.6
							Solid BC			Braid							50	0.9	3.0
							18.3 Ω/km*			9.8 Ω/km***							100	1.3	4.3
							8.5 Ω/km**										200	1.6	5.3
																	400	2.3	7.5
1.6/7.2																	700	3.3	10.8
RG-11																	900	4.0	13.1
																	1000	4.3	14.1

Nominal Delay: 3.937 ns/m
Pulling Tension: 435 N

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper • CCS = Copper-Covered Steel
Duofoil® see technical information page 23.13.

Low Loss HDTV/SDI Digital Coax

75 Ohm Coax

BRILLIANCE®

Description	Part No.	UL NEC/C(UL)CEC Type IEC	Standard Lengths ft.	Standard Lengths m	Standard Unit Weight lbs.	Standard Unit Weight kg	Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD inch	Nominal Insulation OD mm	Shielding Material Nom. DCR	Nominal OD inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance pF/ft.	Nominal Capacitance pF/m	Nominal Attenuation MHz	Nominal Attenuation dB/100 ft.	Nominal Attenuation dB/100 m
23 AWG • Solid 0.6 mm Bare Copper • 90% Tinned Copper Double Braid + 85% Tinned Copper Braid																			
Polyethylene Insulation • Cream PVC Jacket																			
SDI Digital Video 75°C	**BE43187**		328 1640	100 500	7.5 37.5	7.0 35.0	0.58 mm 23 AWG Solid BC	0.146	3.70	Double Braid 90% TC 85% TC	0.248	6.30	75	66%	20.7	68.0	1 10 135 270 360 540 750 1000	0.3 1.1 3.8 5.5 6.3 8.0 9.8 11.3	1.1 3.5 12.5 17.9 20.8 26.2 32.0 37.0
 0.6/3.7 RG-59/U Type																			
22 AWG • Stranded (7x29) 0.8 mm Bare Compacted Copper# • 98% Tinned Copper Double Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket (Matte Black, Red, Green, Blue, Yellow, White and Violet)																			
HDTV/SDI Digital Video 75°C	**1505F**	NEC: CM CEC: CM	1000	305	45.0	20.4	0.76 mm 22 AWG (7x29) BCC 47.8 Ω/km* 40.0 Ω/km**	0.145	3.68	Double Braid 98% TC Braid 7.8 Ω/km***	0.242	6.15	75	80%	17.0	55.7	1 3.6 5 7 10 71.5 100 135 270 360 540 720 750 1000 1500 2000 2250 3000	0.2 0.5 0.6 0.7 0.9 2.5 3.0 3.5 5.1 6.0 7.4 8.7 8.9 10.5 13.3 15.7 16.9 20.3	0.7 1.6 2.0 2.4 2.4 8.2 9.8 11.5 16.7 19.7 24.3 28.5 29.2 34.4 43.6 51.5 55.4 66.6
 0.8/3.7 RG-59/U Type																			
Return loss at 5-3000 MHz: ≥ 15 dB										Nominal Delay: 4.265 ns/m 100% Sweep tested. 5 Mhz to 3 GHz. Pulling Tension: 400 N									
20 AWG • Solid 0.8 mm Bare Copper • **Duofoil®** • 95% Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket (Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black)																			
HDTV/SDI Digital Video 75°C	**1505A**	NEC: CMR CEC: CMG FT4	500 1000 5000	152 305 1524	17.5 36.0 165.4	7.9 16.3 75.0	0.81 mm 20 AWG Solid BC 45.3 Ω/km* 32.8 Ω/km**	0.145	3.68	Duofoil® 95% TC Braid 12.5 Ω/km***	0.233	5.92	75	83%	16.3	53.5	1 3.6 5 7 10 71.5 100 135 270 360 540 720 750 1000 1500 2000 2250 3000 4500	0.3 0.5 0.6 0.7 0.9 2.1 2.3 2.7 3.8 4.4 5.5 6.4 6.5 7.6 9.3 9.3 11.6 13.4 16.4	1.0 1.8 2.1 2.4 2.9 6.9 7.6 8.9 12.5 14.4 18.0 21.0 21.3 24.9 30.5 30.5 38.0 44.0 53.8
 0.8/3.7 RG-59/U Type																			
Return loss at 5-1600 MHz: ≥ 23 dB 1601-4500 MHz: ≥ 21 dB										Nominal Delay: 4.003 ns/m 100% Sweep tested. 5 Mhz to 3 GHz. Pulling Tension: 209 N									
152 m put-up available in Black, Red or Blue only.										Also available in bundled versions. See page 19.32 and 19.34.									
Gas-Injected Foam HDPE • Black FRNC/LSNH Jacket																			
HDTV/SDI Digital Video 75°C	**1505ANH**	IEC 332-3C IEC 332-1 IEC 61034-1 IEC 60331-11 IEC 60754-1 IEC 60754-2	1000	305	36.0	15.5	0.81 mm 20 AWG Solid BC 45.2 Ω/km* 32.8 Ω/km**	0.145	3.68	Duofoil® 95% TC Braid 12.4 Ω/km***	0.233	5.92	75	83%	16.3	53.5			see above
 0.8/3.7 RG-59/U Type																			
Return loss at 5-1600 MHz: ≥ 23 dB 1601-4500 MHz: ≥ 21 dB										Nominal Delay: 4.003 ns/m 100% Sweep tested. 5 Mhz to 3 GHz. Pulling Tension: 209 N									

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper • BCC = Bare Compacted Copper
#Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductors.

Duofoil® see technical information page 23.13.