

Low Loss HDTV/SDI Digital Coax

75 Ohm Coax



De-scription	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material 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/100 m
28.5 AWG • Solid 0.3 mm Bare Copper Conductor • Duobond® foil • 95 % Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket (Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black)																			
DigiTruck HDTV/SDI Digital Video 70°C	179DT	NEC: CM CEC: CMG FT4	500 1000	152 305	5.0 8.0	2.3 3.6	0.31 mm 28.5 AWG Solid BC 379.2 Ω/km* 350.0 Ω/km**	0.056 1.42		Duobond® + 95% TC Braid 29.2 Ω/km***	0.100 2.54	75 77%	17.5 57.4		1 5 10 67.5 71.5 100 135 270 360 540 720 750 1000 1500 2000 2250 3000 4500	1.2 1.9 2.4 5.9 6.0 6.9 7.9 10.8 12.5 15.4 17.9 18.3 21.3 26.3 30.8 32.8 38.3 47.5	3.9 6.1 7.8 19.3 19.6 22.6 25.8 35.4 41.0 50.5 58.7 60.0 69.9 86.3 101.1 107.6 125.7 155.8		
0.3/1.4 RG-179				Return loss at 5-1600 MHz: ≥ 23 dB 1600-3000 MHz: ≥ 21 dB		Nominal Delay: 4.331 ns/m 100% Sweep tested. 5 Mhz to 3 GHz. Pulling Tension: 66 N													
25 AWG • Stranded (19x37) 0.5 mm Bare Copper • Duofoil® • 95 % Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket (Brown, Red, Orange, Yellow, Blue, Violet, Grey, White and Black)																			
HDTV/SDI Digital Video 75°C	1865A	NEC: CMR CEC: CMG FT4	1000	305	14.0	6.4	0.53 mm 25 AWG (19x37) BC 107.6 Ω/km* 89.9 Ω/km**	0.094 2.39		Duofoil® + 95% TC Braid 17.7 Ω/km***	0.150 3.81	75 82%	16.5 54.1		1 5 71.5 360 540 750 1000 1500 2250 3000	0.5 1.1 3.7 8.2 10.1 12.0 13.9 17.0 20.8 24.0	1.5 3.6 12.1 26.9 33.1 39.4 45.6 55.8 68.2 78.7		
0.5/2.4 RG-59/U Type				Nominal Delay: 4.068 ns/m 100% Sweep tested. 5 Mhz to 3 GHz.		Pulling Tension: 133 N													
23 AWG • Solid 0.6 mm Bare Copper Conductor • Duofoil® • 95 % Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • PVC Jacket																			
HDTV/SDI Digital Video 75°C	1855A	NEC: CMR CEC: CMG FT4	500 1000	152 305	9.0 16.0	4.1 7.3	0.58 mm 23 AWG Solid BC 90.8 Ω/km* 65.9 Ω/km**	0.102 2.59		Duofoil® + 95% TC Braid 24.9 Ω/km***	0.159 4.04	75 82%	16.3 53.5		1 3.6 10 71.5 135 270 360 540 720 750 1000 1500 2000 2250 3000 4500	0.4 0.8 1.2 3.1 3.8 5.4 6.2 7.7 9.5 9.6 10.5 13.0 15.1 16.0 18.5 22.8	1.3 2.6 3.9 10.0 12.5 17.7 20.3 25.3 31.1 31.5 34.4 42.6 49.5 52.5 60.7 74.8		
0.6/2.6 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: 160 N		152 m put-up available in Black only. Also available in multiples, bundled. See page 19.31 and 19.33.											
22 AWG • Solid 0.6 mm Tinned Copper • Duofoil® • 90 % Tinned Copper Braid																			
Gas-Injected Foam HDPE Insulation • Green with FRNC Jacket																			
HDTV/SDI Digital Video 75°C	1855ENH		328 1640	100 500	6.2 30.9	2.8 14.0	0.64 mm 22 AWG Solid TC 69.0 Ω/km* 52.0 Ω/km**	0.110 2.80		Duofoil® + 90% TC Braid 17.0 Ω/km***	0.175 4.45	75 84%	16.2 53.0		71.5 135 270 360 540 750 1500 3000	2.6 3.5 4.9 5.7 7.0 8.2 11.8 17.1	8.6 11.5 16.1 18.6 22.8 26.9 38.7 56.1		
0.6/2.8 RG-59/U Type																			

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper

Duofoil® and Duobond® see technical information page 23.13.


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De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material 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.

23 AWG • Solid 0.6 mm Bare Copper • 90% Tinned Copper Double Braid + 85% Tinned Copper Braid


Polyethylene Insulation • Cream PVC Jacket																				
SDI	BE43187		328	100	7.5	7.0	0.58 mm	0.146	3.70	Double Braid	0.248	6.30	75	66%	20.7	68.0	1	0.3	1.1	
Digital Video			1640	500	37.5	35.0	23 AWG			90% TC							10	1.1	3.5	
75°C							Solid BC			85% TC							135	3.8	12.5	
																	270	5.5	17.9	
																	360	6.3	20.8	
																	540	8.0	26.2	
																	750	9.8	32.0	
0.6/3.7																	1000	11.3	37.0	
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	1505F	NEC:	1000	305	45.0	20.4	0.76 mm	0.145	3.68	Double Braid	0.242	6.15	75	80%	17.0	55.7	1	0.2	0.7
Digital Video		CM					22 AWG			98% TC							3.6	0.5	1.6
75°C		CEC:					(7x29) BCC			Braid							5	0.6	2.0
		CM					47.8 Ω/km**			7.8 Ω/km***							7	0.7	2.4
							40.0 Ω/km**										10	0.9	2.4
																	71.5	2.5	8.2
																	100	3.0	9.8
																	135	3.5	11.5
0.8/3.7																	270	5.1	16.7
RG-59/U Type																	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	
																2000	15.7	51.5	
																2250	16.9	55.4	
																3000	20.3	66.6	

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	1505A	NEC:	500	152	17.5	7.9	0.81 mm	0.145	3.68	Duofoil®	0.233	5.92	75	83%	16.3	53.5	1	0.3	1.0
Digital Video		CMR	1000	305	36.0	16.3	20 AWG			95% TC							3.6	0.5	1.8
75°C		CEC:	5000	1524	165.4	75.0	Solid BC			Braid							5	0.6	2.1
		CMG FT4					45.3 Ω/km**			12.5 Ω/km***							7	0.7	2.4
							32.8 Ω/km**										10	0.9	2.9
																	71.5	2.1	6.9
																	100	2.3	7.6
																	135	2.7	8.9
0.8/3.7																	270	3.8	12.5
RG-59/U Type																	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	
																2000	9.3	30.5	
																2250	11.6	38.0	
																3000	13.4	44.0	
																4500	16.4	53.8	

Return loss at 5-1600 MHz: ≥ 23 dB Nominal Delay: 4.003 ns/m
 1601-4500 MHz: ≥ 21 dB 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	1505ANH	IEC 332-3C	1000	305	36.0	15.5	0.81 mm	0.145	3.68	Duofoil®	0.233	5.92	75	83%	16.3	53.5			
Digital Video		IEC 332-1					20 AWG			95% TC									
75°C		IEC 61034-1					Solid BC			Braid									
		IEC 60331-11					45.2 Ω/km*			12.4 Ω/km***									
		IEC 60754-1					32.8 Ω/km**												
		IEC 60754-2																	

Return loss at 5-1600 MHz: ≥ 23 dB Nominal Delay: 4.003 ns/m
 1601-4500 MHz: ≥ 21 dB 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.

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De-scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material 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/ 100 m

18 AWG • Solid 1.0 mm Bare Copper • Duofoil® • 95 % Tinned Copper Braid

Gas-Injected Foam HDPE • PVC Jacket (Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White and Black)

HDTV/SDI	1694A	NEC:	500	152	20.5	9.3	1.02 mm	0.180	4.57	Duofoil®	0.275	6.99	75	82%	16.2	53.1	1	0.2	0.8
Digital Video		CMR	1000	305	45.0	20.4	18 AWG			+ 95% TC							3.6	0.5	1.5
70°C		CEC:	4500	1372	202.5	91.9	Solid BC			Braid							10	0.7	2.4
		CMG FT4					30.2 Ω/km*			9.2 Ω/km***							71.5	1.6	5.2
							21.0 Ω/km**										135	2.1	6.9
																	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
																	4500	13.3	43.6



1.0/4.6
RG-6/U Type

Return loss at 5-1600 MHz: ≥ 23 dB
1601-4500 MHz: ≥ 21 dB

Nominal Delay: 4.068 ns/m
100% Sweep tested. 5 Mhz to 4.5 Ghz.

Pulling Tension: 306 N

152 m put-up available in Black only.

Also available in bundled versions, see page 19.32.

Gas-Injected Foam HDPE • Black FRNC Jacket

HDTV/SDI	1694ANH	IEC 332-3C	328	100	15.4	6.4	1.02 mm	0.180	4.57	Duofoil®	0.275	6.99	75	82%	16.2	53.1			
Digital Video		IEC 332-1	1000	305	46.2	19.6	18 AWG			+ 95% TC									
70°C		IEC 61034-1	1640	500	77.0	32.2	Solid BC			Braid									
		IEC 60331-11	4500	1372	207.7	88.2	30.2 Ω/km*			9.2 Ω/km***									
		IEC 60754-1					21.0 Ω/km**												
		IEC 60754-2																	



1.0/4.6
RG-6/U Type

Return loss at 5-1600 MHz: ≥ 23 dB
1601-4500 MHz: ≥ 21 dB

Nominal Delay: 4.068 ns/m
100% Sweep tested. 5 Mhz to 4.5 Ghz.

Pulling Tension: 306 N

305 m put-up available in Black only.

19 AWG • Stranded (7x27) 1.0 mm Bare Copper • 99 % Tinned Copper Double Braid

Gas-Injected Foam HDPE • PVC Jacket (Black, Red, Green, Blue, White, Orange, Yellow and Violet)

HDTV/SDI	1694F	NEC:	1000	305	54.0	24.5	1.016 mm	0.225	5.72	Double Braid	0.276	7.01	75	81%	16.2	53.1	1	0.2	0.8
Digital Video		CMR					19 AWG			+ 99% TC							3.6	0.5	1.5
75°C		CEC:					(7x27) BC			Braid							10	0.7	2.4
300V RMS		CMG					33.3 Ω/km*			5.5 Ω/km***							71.5	2.0	6.5
							27.8 Ω/km**										270	4.0	13.1
																	360	4.7	15.4
																	540	5.9	19.3
																	720	6.9	22.6
																	750	7.0	22.9
																	1000	8.2	26.9
																	1500	10.4	34.1
																	2250	13.2	43.3
																	3000	15.6	51.1
																	4500	19.8	64.9



1.0/4.6
RG-6/U Type

Return loss at 5-850 MHz: ≥ 20 dB
850-4500 MHz: ≥ 15 dB

Nominal Delay: 4.101 ns/m
100% Sweep tested. 5 Mhz to 4.5 Ghz.

Pulling Tension: 364 N

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper

Duofoil® see technical information page 23.13.

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De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material 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/ 100 m

14 AWG • Solid 1.6 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	7731A	NEC:	500	152	46.5	21.1	1.63 mm	0.280	7.11	Duofoil®	0.400	10.16	75	85%	16.0	52.5	1	0.2	0.5
Digital Video		CMR	1000	305	95.0	43.1	14 AWG			+ 95% TC							10	0.5	1.5
75°C		CEC:	4000	1219	388.0	176.0	Solid BC			Braid							71.5	1.1	3.6
		CMG FT4					13.1 Ω/km*			4.9 Ω/km***							135	1.5	4.8
							8.2 Ω/km**										270	2.1	6.9
																	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
																	4500	10.4	34.1



1.6/7.2
RG-11/U Type

Return loss at 5-1600 MHz: ≥ 23 dB
1601-4500 MHz: ≥ 21 dB

Nominal Delay: 3.97 ns/m
100% Sweep tested. 5 Mhz to 3 GHz.

152 m put-up available in Black only. Pulling Tension: 644 N

Gas-Injected Foam HDPE • Black FRNC Jacket

HDTV/SDI	7731ANH	IEC 332-3C	1000	305	100.0	40.4	1.63 mm	0.280	7.11	Duofoil®	0.400	10.16	75	85%	16.0	52.5			
Digital Video		IEC 332-1	1640	500	164.0	66.3	14 AWG			+ 95% TC									
70°C		IEC 61034-1	3280	1000	328.0	132.5	Solid BC			Braid									
		IEC 60331-11	4000	1219	400.0	161.5	13.1 Ω/km*			4.9 Ω/km***									
		IEC 60754-1					8.2 Ω/km**												
		IEC 60754-2																	



1.6/7.2
RG-11/U Type

Return loss at 5-1600 MHz: ≥ 23 dB
1601-4500 MHz: ≥ 21 dB

Nominal Delay: 3.97 ns/m
100% Sweep tested. 5 Mhz to 3 GHz.

Pulling Tension: 644 N

* DC loop resistance • ** DC resistance inner conductor • *** DC resistance outer conductor • DCR = DC resistance • TC = Tinned Copper • BC = Bare Copper

Duofoil® see technical information page 23.13.