

# Coax Cable Assemblies

## Video Cords

Part No.	Gender	Standard Lengths		Standard Unit Weight		Cond. AWG (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ( )	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation	
		ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/100 ft.

**Brilliance Assemblies • 1505F HDTV/SDI • BNC, RCA or F Connectors on both ends • Superflex 75 Ohm broadcast quality assembled colored cable with two strain relief boosts**

Digital video and HDTV run at higher frequencies and make better use of composite video for even greater picture clarity. To accommodate the need for higher frequency, and the ability to run more demanding applications such as high resolution VGA on large screens, HDTV, Hi-Res CAD, animation, editing and special effects, Belden uses the extremely popular 1505F which has the optimum design to meet these new high-end requirements. The Belden line includes high performance professional connectors with excellent connector pull strength and minimal signal loss. Perfect for patching, rack wiring, OB vans, satellite headends, CCTV, etc.


**Gas-injected Foam HDPE Insulation • PVC Jacket (Matte Black, Red, Green, Blue, Yellow, White, Violet, Orange)**

1.6	0.5	0.18	0.08	22 AWG	0.145	3.68	Double	0.242	6.15	75	80%	17.0	55.7	1	0.2	0.7
3.3	1.0	0.26	0.12	0.79 mm			95% TC							3.6	0.5	1.6
6.6	2.0	0.43	0.19	(7x29) BC			Braid							10	0.9	2.9
9.8	3.0	0.59	0.27	47.8 /km*			7.8 /km***							71.5	2.5	8.2
16.4	5.0	0.92	0.42	40.0 /km**										135	3.5	11.5
19.7	6.0	1.09	0.49											270	5.1	16.7
49.2	15.0	2.58	1.17											360	6.0	19.7
65.6	20.0	3.40	1.54											540	7.4	24.3
98.4	30.0	5.06	2.29											720	8.7	28.5
147.6	45.0	7.54	3.42											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

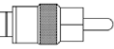


Return loss at 5-3000 MHz: 15 dB


**1505F BNC-BNC • for Analog & Digital Video, Patchcords, CCTV, Satellite Uplink/Downlink, Telecom**

	Length	Violet	Black	Red	Green	Blue	Yellow	White	Orange
<b>CA00100...</b> 	0.5	00C0D5	01C0D5	02C0D5	03C0D5	04C0D5	05C0D5	06C0D5	07C0D5
	1.0	00C1	01C1	02C1	03C1	04C1	05C1	06C1	07C1
	2.0	00C2	01C2	02C2	03C2	04C2	05C2	06C2	07C2
	3.0	00C3	01C3	02C3	03C3	04C3	05C3	06C3	07C3
	5.0	00C5	01C5	02C5	03C5	04C5	05C5	06C5	07C5
	6.0	00C6	01C6	02C6	03C6	04C6	05C6	06C6	07C6
	15.0	00C15	01C15	02C15	03C15	04C15	05C15	06C15	07C15
	20.0	00C20	01C20	02C20	03C20	04C20	05C20	06C20	07C20
	30.0	00C30	01C30	02C30	03C30	04C30	05C30	06C30	07C30
	45.0	00C45	01C45	02C45	03C45	04C45	05C45	06C45	07C45
	Example Part No. <b>CA00100</b> 00C0D5 = 1505F BNC-BNC, 0.5 m, violet								

**1505F RCA-RCA • for Audio or Video, Projectors, Digital Audio (S/PDIF) Subwoofer, Analog Audio and Composite Video**

	Length	Violet	Black	Red	Green	Blue	Yellow	White	Orange
<b>CA00101...</b> 	0.5	00C0D5	01C0D5	02C0D5	03C0D5	04C0D5	05C0D5	06C0D5	07C0D5
	1.0	00C1	01C1	02C1	03C1	04C1	05C1	06C1	07C1
	2.0	00C2	01C2	02C2	03C2	04C2	05C2	06C2	07C2
	3.0	00C3	01C3	02C3	03C3	04C3	05C3	06C3	07C3
	5.0	00C5	01C5	02C5	03C5	04C5	05C5	06C5	07C5
	6.0	00C6	01C6	02C6	03C6	04C6	05C6	06C6	07C6
	15.0	00C15	01C15	02C15	03C15	04C15	05C15	06C15	07C15
	20.0	00C20	01C20	02C20	03C20	04C20	05C20	06C20	07C20
	30.0	00C30	01C30	02C30	03C30	04C30	05C30	06C30	07C30
	45.0	00C45	01C45	02C45	03C45	04C45	05C45	06C45	07C45
	Example Part No. <b>CA00101</b> 00C0D5 = 1505F RCA-RCA, 0.5 m, violet								

**1505F F-F • for Cable TV, Satellite and Antenna. The Brilliance Assemblies RF Video Cords can be Specially Ordered.**

	Length	Violet	Black	Red	Green	Blue	Yellow	White	Orange
<b>CA00102...</b> 	0.5	00C0D5	01C0D5	02C0D5	03C0D5	04C0D5	05C0D5	06C0D5	07C0D5
	1.0	00C1	01C1	02C1	03C1	04C1	05C1	06C1	07C1
	2.0	00C2	01C2	02C2	03C2	04C2	05C2	06C2	07C2
	3.0	00C3	01C3	02C3	03C3	04C3	05C3	06C3	07C3
	5.0	00C5	01C5	02C5	03C5	04C5	05C5	06C5	07C5
	6.0	00C6	01C6	02C6	03C6	04C6	05C6	06C6	07C6
	15.0	00C15	01C15	02C15	03C15	04C15	05C15	06C15	07C15
	20.0	00C20	01C20	02C20	03C20	04C20	05C20	06C20	07C20
	30.0	00C30	01C30	02C30	03C30	04C30	05C30	06C30	07C30
	45.0	00C45	01C45	02C45	03C45	04C45	05C45	06C45	07C45
	Example Part No. <b>CA00102</b> 00C0D5 = 1505F F-F, 0.5 m, violet								

\* DC loop resistance • \*\* DC resistance inner conductor • \*\*\* DC resistance outer conductor • DCR = DC resistance • M = Male • F = Female • TC = Tinned Copper • BC = Bare Copper

To comfortably support today's broadcast technology, Brilliance Assemblies can be specially ordered:

- for mobile television broadcast trucks with 179DT BNC-BNC (CA00103)
- as an economical version with 1855A BNC-BNC (CA00106)
- for long runs with 1505A BNC-BNC (CA00109)
- for longer runs with 1694A BNC-BNC (CA00112)

All these Brilliance Assemblies are available in 10 colors (1505A with 8 colors).

If you require a specific connector, you can choose from the following brands: ADC, Neutrik, Damar+Hagen, Telegaertner.

**Recommended Color Schema:**

<b>Red + Black</b>	Analog audio
<b>RGB (Red, Green, Blue)</b>	Component video
<b>Orange</b>	Digital audio
<b>Yellow</b>	Composite video
<b>Violet</b>	Digital video/HDTV

## Coax Cable Assemblies

### RGB Patch Cables

Part No.	Gender	Standard Lengths		Standard Unit Weight		Cond. AWG (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ( )	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

#### Brilliance Assemblies • 1277R (3-Coax) and 1279R (5-Coax) HDTV/SDI • 3 or 5 BNC Connectors on both ends • Flexible 75 Ohm broadcast quality assembled RGB cable with strain relief boots

RGB cables are used for component video formatted applications that segment the video signal into Red, Green and Blue elements, identified through use of corresponding cable jacket colors (RGB cables). Synchronization (Sync) and Vertical Hold (Hold) signals can be embedded within one of the elemental video components or they can be transmitted separately utilizing the 4th and 5th coaxes. When present, the 4th coax has a yellow jacket; the 5th coax has a black jacket. The outer jacket of the Belden line is stripped back 150 mm from both ends. The unique design of these cables also makes them ideal for multiple runs of composite video signals such as SDI or HDTV (video snake cable). The Belden lines are ideal for high-resolution monitor and projection imaging in corporate boardrooms, command and control centers, multi-purpose auditoriums, home theaters, performance venues, etc.

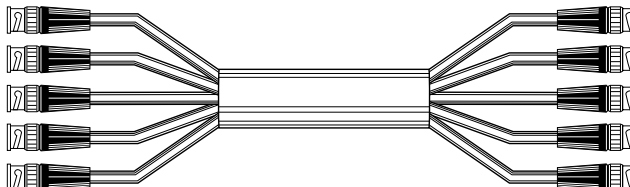
#### Foam HDPE Insulation • Matte Black PVC Jacket

CA00150 01C1	BNC-BNC	3.3	1.0	0.24	25 AWG	0.092	2.33	Duofoil®	0.320	8.13	75	80%	17.0	55.7	5	1.2	3.8
CA00150 01C2		6.6	2.0		0.45 mm		Coax OD:	95% TC	0.403	10.24					50	3.7	12.1
CA00150 01C3		9.8	3.0		(Solid) BC	0.114	2.90	Braid							100	4.9	16.1
CA00150 01C6		19.7	6.0												400	9.5	31.2
CA00150 01C15		49.2	15.0												750	13.4	44.0
CA00150 01C20		65.6	20.0												900	15.0	49.2
CA00150 01C30		98.4	30.0												1000	15.8	51.8
CA00150 01C45		147.6	45.0												3000	31.2	102.4



#### Foam HDPE Insulation • Matte Black PVC Jacket

CA00151 01C1	BNC-BNC	3.3	1.0		25 AWG	0.092	2.33	Duofoil®	0.320	8.13	75	80%	17.0	55.7	5	1.2	3.8
CA00151 01C2		6.6	2.0		0.45 mm		Coax OD:	95% TC	0.403	10.24					50	3.7	12.1
CA00151 01C3		9.8	3.0		(Solid) BC	0.114	2.90	Braid							100	4.9	16.1
CA00151 01C6		19.7	6.0												400	9.5	31.2
CA00151 01C15		49.2	15.0												750	13.4	44.0
CA00151 01C20		65.6	20.0												900	15.0	49.2
CA00151 01C30		98.4	30.0												1000	15.8	51.8
CA00151 01C45		147.6	45.0												3000	31.2	102.4



\* DC loop resistance • \*\* DC resistance inner conductor • \*\*\* DC resistance outer conductor • DCR = DC resistance • M = Male • F = Female • TC = Tinned Copper • BC = Bare Copper

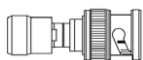
To comfortably support today's broadcast technology, Brilliance Assemblies can be specially ordered:

	3-Coax BNC-BNC	5-Coax BNC-BNC
1. same but Banana Peel® design	1281S3 (CA00152)	1281S5 (CA00153)
2. as an economical version with 1855A	7787A (CA00154)	7789A (CA00155)
3. for long runs with 1505A	7794A (CA00156)	7796A (CA00157)
4. for longer runs with 1694A	7710A (CA00158)	7712A (CA00159)

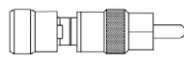
If you require a specific connector you can choose from the following brands: ADC, Neutrik, Damar+Hagen, Telegaertner.

#### Additional Accessories for 1277R-1279R and 1281S3-S5 One-Piece Connector

1B25A • 75-Ohm BNC (male)



1R25A • 75-Ohm RCA



#### Stripping and Compression Tool

HCST • Cable Prep Tool



HCCT • works with BNC, RCA and F Connectors



# Coax Cable Assemblies

## Triax Cables

Part No.	Gender	Standard Lengths		Standard Unit Weight		Cond. AWG (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ( )	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation	
		ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/100 ft.

**Brilliance Assemblies • 7783AF Triax 8 HDTV/SDI • ProAx™ Triax Camera Connectors: Global Format on both ends • Flexible 75 Ohm broadcast quality assembled Triax cable**

The Belden triax lines are assembled with ADC's ProAx™ triaxial camera connectors. This combination will undoubtedly change your views of triaxial assemblies. ADC's patented ProAx™ triaxial camera connector has a two-piece center conductor offering several options. Key benefits include the ability to swap gender parts from male to female and vice versa in only a few seconds and the way mates can be swapped equally quickly with Kings, Lemo, Fischer and Damar+Hagen parts. The Belden lines are ideal for field use, sporting/live events, mobile trucks, stadiums, fixed wiring, TV/Studio production.

**Foam Insulation • Red PVC Jacket**

CA00200 02C50	Male - Female	164	50	13.56	6.15	0.99 mm	0.178	4.52	90% SPC	0.331	8.40	75	83%	16.5	54.0	1	0.2	0.6
CA00200 02C100		328	100	26.01	11.80	20 AWG			Braid							10	0.7	2.2
CA00200 02C150		492	150	38.47	17.45	(19x0.36) SPC			+ 80% BC							20	1.0	3.2
CA00200 02C200		656	200	50.93	23.10	32.0 /km*			Braid							40	1.4	4.6
CA00200 02C250		820	250	63.38	28.75	22.0 /km**			10.0 /km***							50	1.6	5.1
									6.5 mm							60	1.7	5.6
																100	2.3	7.5
																300	4.2	13.8



Return loss at 1-100 MHz: 26 dB  
100-300 MHz: 23 dB

Screening attenuation at 30-1000 MHz: 75 dB  
Brilliance® Broadcast Assembly line can be specially ordered with mates for Kings, Lemo Redel F, Fischer SE & KE and Damar+Hagen.

**Brilliance Assemblies • 7784AF Triax 11 HDTV/SDI • ProAx™ Triax Camera Connectors: Global Format on both ends • Flexible 75 Ohm broadcast quality assembled Triax cable**

**Foam Insulation • Red PVC Jacket**

CA00201 02C50	Male - Female	164	50	20.17	9.15	1.4 mm	0.256	6.50	90% SPC	0.433	11.00	75	82%	16.5	54.0	1	0.2	0.5
CA00201 02C100		328	100	39.24	17.80	16 AWG			Braid							10	0.5	1.6
CA00201 02C150		492	150	58.31	26.45	(19x0.28) SPC			+ 80% BC							20	0.7	2.3
CA00201 02C200		656	200	77.38	35.10	26.0 /km*			Braid							40	1.0	3.3
CA00201 02C500		1640	500	191.80	87.00	18.0 /km**			8.0 /km***							50	1.1	3.7
									8.5 mm							60	1.3	4.1
																100	1.6	5.4
																300	3.1	10.3



Return loss at 1-100 MHz: 26 dB  
100-300 MHz: 23 dB

Screening attenuation at 30-1000 MHz: 75 dB  
Brilliance® Broadcast Assembly line can be specially ordered with mates for Kings, Lemo Redel F, Fischer SE & KE and Damar+Hagen.

**Brilliance Assemblies • 7785A Triax 14 HDTV/SDI • ProAx™ Triax Camera Connectors: Global Format on both ends • Flexible 75 Ohm broadcast quality assembled Triax cable**

**Foam Insulation • Red PVC Jacket**

CA00202 02C50	Male - Female	164	50	30.31	13.75	2.21 mm	0.382	9.70	90% SPC	0.551	14.00	75	82%	16.5	54.0	1	0.1	0.4
CA00202 02C100		328	100	59.52	27.00	12 AWG			Braid							10	0.3	1.1
CA00202 02C150		492	150	88.74	40.25	(7x0.75) SPC			+ 80% BC							20	0.5	1.6
CA00202 02C200		656	200	117.95	53.50	14.0 /km*			Braid							40	0.7	2.3
CA00202 02C500		1640	500	293.21	133.00	10.0 /km**			4.0 /km***							50	0.8	2.6
CA00202 02C1000		3280	1000	585.32	265.50				12.7 mm							60	0.9	2.8
																100	1.2	3.8
																300	2.3	7.7



Return loss at 5-850 MHz: 21 dB

Screening attenuation at 30-1000 MHz: 75 dB  
Brilliance® Broadcast Assembly line can be specially ordered with mates for Kings, Lemo Redel F, Fischer SE & KE and Damar+Hagen

\* DC loop resistance • \*\* DC resistance inner conductor • \*\*\* DC resistance outer conductor • DCR = DC resistance • M = Male • F = Female • BC = Bare Copper • SPC = Silver-Plated Copper  
ProAx™ is an ADC Krone trademark.