

HDTV/SDI












A DTV signal is a television signal provided in a digital form. Data bits, like in a computer, provide a dramatically better picture and better sound quality called High Definition TV (HDTV). HDTV is the highest quality of DTV and is only one of the available formats. In addition to enhanced picture quality, the DTV signal allows several program streams (multicasting) on one channel, providing more program potential, as well as interactive services.

Serial Digital Interface (SDI) is the standard for digital video transmission over coaxial cable. The SMPTE 295M standard provides maximum distances (300 meters; 140 meters for High Definition), typically at 270 Mbps with 540 Mbps possible over a coaxial cable.

Recommended Coax Cable Construction: Cable providing signal to and within the home/building will continue to be CCS construction (C5775, C5785). Cables with SBC conductors (395011, 495025) are recommended for the interconnect between the decoder box and other electronic devices (TV, DVD, DVR, CD, Bluray).

HDTV/SDI—Interconnect Cables RG 59, RG 6 and RG 11 Ratings

Coax Solution	Carol	Belden	Genesis	West Penn	Commscope
 RG 59 SBC/Foil/95% TC Braid CMR	395025	1505A	5361	819	5553
 RG 59 SBC/Miniature/Foil/95% TC Braid CMR - Single	395031	1855A	—	—	—
 RGB - Overall jacket containing 3 x 395031	395031X3	—	—	—	—
 RGB - Overall jacket containing 5 x 395031	395031X5	—	—	—	—
 RG 59 SBC/Foil/95% TC Braid CMP - Plenum	495023	1506A	—	—	—
 RG 6 SBC/Foil/95% TC Braid CMR	395011	1694A	—	—	5765
 RG 6 SBC/Foil/95% TC Braid CMP - Plenum	495025	1695A	—	—	—
 RG 11 SBC/Foil/95% TC Braid CMR	395029	7731A	—	—	—
 RG 11 SBC/Foil/95% TC Braid CMP - Plenum	495027	7732A	—	—	2286K


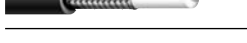







CCTV



Closed Circuit TV (CCTV) signals are typically lower-frequency analog signals. Attenuation increases as frequency increases, therefore lower baseband signals are able to travel longer distances on an RG 59 type coaxial cable than a higher-frequency television signal. This is why RG 59 is the most common coax for CCTV. It is becoming more common for Unshielded Twisted Pair (UTP) products, like Category 5e and 6 cables, to be used for Closed Circuit over Twisted Pair (CCTP) or Web-enabled cameras implemented over a Power over Ethernet network architecture; however, these solutions require the use of specialized equipment.

Recommended Coax Cable Construction: Solid bare copper (SBC) conductor and a bare copper (BC) braid shield with coverage of 90-95% to minimize signal loss of both the horizontal and vertical sync signals. Stranded conductors are recommended for pan, zoom, tilt (PZT) cameras.

CCTV RG 59 and RG 11 Ratings

Coax Solution	Carol	Belden	Genesis	West Penn	Commscope
 RG 59 SBC/95% BC Braid CM	C1142	543945	5001	—	—
 RG 59 Stranded (7/30) BC/95% BC Braid CM	C1103	9259	—	—	—
 RG 59 Stranded (7/30) BC/95% BC Braid + 22 AWG (7/30) Shielded Pair CM	C8025	9265	—	—	—
 RG 59 SBC/95% BC Braid + 18 AWG (7/26) Unshielded Pair CM	C8028	549945	—	—	—
 RG 59 SBC/95% BC Braid + 18 AWG (7/26) Unshielded Pair CMP - Plenum	C8030	649948	—	—	—
 RG 59 SBC/95% BC Braid CMP - Plenum	495028	643948	5351	25815	2037V
 RG 11 SBC/95% BC Braid CM	395058	513945	—	811	5905
 RG 11 SBC/95% BC Braid CMP - Plenum	495015	613948	—	—	2286K
 RG 6 BC/95% BC Braid CMP - Plenum	495035	—	—	—	2277V

*Abbreviation Key

AL - aluminum

SBC - solid bare copper

CCS - copper clad steel

BC - bare copper

TC - tinned copper

**CAROL
BRAND**

 **General Cable**

Command® Series Home Entertainment Cables



Command® Series Speaker Wire UL Listed (Wires, Misc)

Applications:	Catalog No.	Conductors	AWG (Stranding)	Length
Digital audio, stereo systems	C1356	2	24 (7 x 32)	500' Reels
	C1362	2	22 (7 x 30)	500' Reels
	C1360	2	20 (10 x 30)	500' Reels
	C1357	2	18 (16 x 30)	500' Reels
	C1358	2	16 (26 x 30)	500' Reels
	C1361	2	14 (41 x 30)	500' Reels
	C1363	2	12 (65 x 30)	500' Reels

Command® Series Twisted Pair Speaker Cable NEC Type CMR

Applications:	Catalog No.	Conductors	AWG (Stranding)	Length
Home theaters, home audio systems	C1000A	2	22 (7x30)	500' Reels
	C1001A	2	20 (7x28)	500' Reels
	C1002A	2	18 (7x26)	500' Reels
	C1003A	2	16 (19x29)	500' Reels
	C1004A	2	14 (42x30)	500' Reels
	C1005A	2	12 (65x30)	500' Reels

Commercial-Grade Speaker Cables NEC Type CMR

Applications:	Catalog No.	Conductors	AWG (Stranding)	Length
Movie theaters, commercial sound installations	E1042S	2	16 (19/.0117)	500' Reels
	E1044S	4	16 (19/.0117)	500' Reels
	E1052S	2	14 (19/.0147)	500' Reels
	E1054S	4	14 (19/.0147)	500' Reels
	E1062S	2	12 (19/.0185)	500' Reels
	E1064S	4	12 (19/.0185)	500' Reels

Rubber Jacketed Microphone Cable—High- and Low-Impedance

Applications:	Catalog No.	Conductors	AWG
Low- and high-impedance microphones, broadcast and studio use, communication and audio systems, shielded power supplies, control circuits, video and audio interconnecting cables, suggested voltage rating of 300	C1300	1	#20 (26 x 34)
	C1301	2	#18 (41 x 34)
	C1302	2	#20 (26 x 34)

RGB Cables for Home Theater and Video Interconnect NEC Type CMR

Applications:	Catalog No.	# of Coax	AWG	Insulation	Shielding
Home theater, video interconnect, boardroom installations	395031X3	3	23 Solid BC	Foam PE	Dual Foil + 95% TC Braid
	395031X5	5	23 Solid BC	Foam PE	Dual Foil + 95% TC Braid



Put-Ups and Color Codes

PUT-UP CODES

Put-Up Code	Packaging	Put-Up Code	Packaging
03	3 ft Coax w/ Connector HD	68	3500 ft Reel
06	6 ft Coax w/ Connector HD	69	Retail Spool Pac
11	50 ft Spool	70	Cord Hanked, coil w/cuff
12	100 ft Spool	73	Cord Set, long length
13	Clamshell	74	12' Clamshell w/ connectors
15	250 ft Spool	75	25' Clamshell w/ connectors
18	500 ft Spool	76	50' Clamshell w/ connectors
20	900 ft Spool	77	100' Clamshell w/ connectors
21	1000 ft Spool	78	15,000 ft Reel
24	2500 ft Spool	79	8,000 ft Reel
25	500 ft Pull Pac	80	Blister Pack w/ connectors
26	5000 ft Spool	85	250 ft Coil
27	500 ft Pull Pac	86	500' Shrinkwrap coil
30	1000 ft Pull Pac	88	12' Sleeve w/o connector
31	1000 ft Pull Pac	89	25' Sleeve w/o connector
32	150 ft Reel	90	50' Sleeve w/o connector
33	100 ft Reel	91	75' Sleeve w/o connector
34	200 ft Coil	92	100' Sleeve w/o connector
35	250 ft Reel	93	Bulk Reel
36	300 ft Reel	94	Display
38	500 ft Reel	96	Wiring Devise, Skin Pack
39	500 Meter = 1,640 ft	99	Factory Reel
40	Long Length Reel	XX	Various Lengths
41	1000 ft Reel		
42	1500 ft Reel	A1	250 ft Spool Pack
43	2000 ft Reel	A2	500 ft Spool Pack
44	2500 ft Reel	A3	1000 ft Spool Pack
45	4000 ft Reel	A4	2000 ft Spool Pack
46	5000 ft Reel	R5	250 ft Spool, Retail
47	7500 ft Reel	R8	500 ft Spool, Retail
48	10,000 ft Reel		
49	1600 ft Reel		
50	1000 Meter (3280')		
51	4500 ft Reel		
52	3000 ft Reel		
53	25 ft Cuff		
54	12 ft Clamshell		
55	25 ft Clamshell		
56	50 ft Clamshell		
57	100 ft Clamshell		
58	12 ft Sleeve w/connectors		
59	25 ft Sleeve w/connectors		
60	Cord Hanked, coil w/cuff		
61	Cord Set Box		
62	Cord Set Bag		
63	Cord Set Sleeve		
64	50 ft Sleeve w/connectors		
65	100 ft Sleeve w/connectors		
66	50 ft Cuff		
67	100 ft Cuff		

JACKET COLOR CODES

Put-Up Code	Packaging	Put-Up Code	Packaging
00	Uninsulated	69	Maple
01	Black	70	Walnut
02	White	71	Wrought Iron
03	Red	72	Copper
04	Orange	73	White/Black/Red
05	Yellow	74	White/Black/Orange
06	Green	75	White/Black/Yellow
07	Dark Blue	76	White/Black/Green
08	Brown	77	White/Black/Blue
09	Maroon	78	White/Black/Brown
10	Gray	79	White/Black/Violet
11	Antique Gold	80	White/Black/Gray
12	Ivory	81	Black/Red/White
13	Pink	82	Orange/Green/Black
14	Light Green	86	Natural
15	Clear Gold	88	Tan
16	Light Blue	90	Clear
17	Beige	91	Clear Brown
18	Light Brown	92	Clear Blue
19	Purple	93	Clear Red
20	Clear Silver	96	Twisted Cond. No Jkt
21	Light Purple	97	1 Stripe
22	Neon Green	98	2 Stripes
23	Mint Green	99	Assorted Colors
24	Raspberry		
25	Gold		
31	White/Black		
33	White/Red		
34	White/Orange		
35	White/Yellow		
36	White/Green		
37	White/Blue		
38	White/Brown		
39	White/Violet		
40	White/Gray		
41	Red/Green		
42	Green/White		
43	Blue/Red		
44	Blue/White		
45	Orange/Red		
46	Orange/Black		
47	Yellow/White		
48	Yellow/Black		
49	Blue/White		
50	Blue/Black		
56	Black w/White Trace		
62	Silver Gray (Lt Gray)		
66	Light Green		
67	Lime Green		
68	Birch		