


Coaxial & CCTV Cables



Honeywell's Genesis Series of broadband and digital coaxial cables are tested to the highest standards to assure the best performance in high-end home theater installations, incorporating HDTV and digital video. Honeywell also manufactures a wide variety of baseband coaxial cables for CCTV and other applications.

Features:

- Countdown or Sequential Footage Markings
- Room/Zone Markings on Legend
- Color Coded Boxes
- New Labeling System on Boxes
- 100% Guaranteed

Article 820:

Community Antenna Television and Video Surveillance Systems (Coaxial Cable).

The scope of this article covers coaxial cable distribution of radio frequency signals typically employed in community antenna television (CATV) systems.

NEC Energy Limitations (NEC Section 820-2):

The coaxial cable shall be permitted to deliver low energy power to equipment directly associated with the radio frequency distribution system if the voltage is not over 60 volts and if the current supply is from a transformer or other device having energy-limiting characteristics.

Conductor Material

Bare Copper (BC):

- Excellent signal strength for low frequency applications such as CCTV
- Recommended for satellite dishes to power Low Noise Blocks (LNB)

Copper Clad Steel (CCS):

- Better durability and strength than bare copper
- Common for broadband applications, including CATV/MATV and HDTV



Shielding

Shielding protects signal transmission from EMI and RFI interference. Braid shields block lower frequency interference, and foil shields block higher frequency interference.

Quad Shield:

- Two 100% Aluminum Foil Shields
- Two Aluminum Braid Shields
- Protects signal transmission from low and high frequency interference
- Ideal for high performance broadband applications

Dual Shield:

- 100% Aluminum Foil Shield
- 45-80% Aluminum Braid Shield or 100% Tinned Copper Braid Shield
- Protects signal transmission from low and high frequency interference
- Ideal for broadband applications

Braid Shield:

- 95% Bare Copper standard or 95% Copper Clad Aluminum for shorter economical runs
- Protects signal transmission from low frequency interference
- Ideal for CCTV or other low frequency applications

CCTV: Closed Circuit Television

CATV: Community Antenna Television

MATV: Master Antenna Television

HDTV: High Definition Television

EMI: Electromagnetic Interference (from electric motors, ballasts, and nearby high voltage currents)

RFI: Radio Frequency Interference (from cell phones, radio towers, wireless devices)

QUAD-Shielded Broadband Coaxial Cables

Construction:

	Non-Plenum	Plenum	Water Resistant
Conductors	Solid Bare Copper or Copper Covered Steel		
QUAD Shield	Two 100% Al Foil + Two Al Braids		
Jacket	PVC	Low-Smoke PVC	PE
Colors	Black, White	Natural	Black



Features:

- Sunlight Resistant (Except Plenum)
- Sweep Tested to 3 GHz

Popular Packaging:

- Pull Box 500', 1000'
- Reel 500', 1000'
- Reel-in-a-Box 500'
- Consult factory for other packaging options

STYLE	AWG	SHIELD	NOM. VP	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
GENERAL PURPOSE – CATV, CL2 LISTED							
RG6/U	18 BC	60%/40% Al	82	16	0.298	36	5027
RG6/U	18 CCS	60%/40% Al	82	16	0.298	35	5007
DUAL RG6/U	18 CCS	60%/40% Al	82	16	0.298 x 0.605	72	5008 c
RISER RATED – CATVR, CL2R, FT4 LISTED							
RG6/U	18 CCS	60%/40% Al	82	16.5	0.298	33	5307
PLENUM RATED – CATVP, CL2P, FT6 LISTED							
RG6/U	18 CCS	60%/40% Al	82	16	0.276	41	5356 c
WATER RESISTANT – CATV LISTED							
RG6/U	18 CCS	60%/40% Al	81	16	0.300	32	5106

C Reels only

DUAL-Shielded Broadband Coaxial Cables

Construction:

	Non-Plenum	Plenum	Water Resistant
Conductors	Solid Bare Copper or Copper Covered Steel		
DUAL Shield	100% Al Foil + Al or TC Braid		
Jacket	PVC	Low-Smoke PVC	Polyethylene
Colors	Black, White	Natural	Black



Features:

- Sunlight Resistant (Except Plenum)

Popular Packaging:

- Pull Box 500', 1000'
- Reel 500', 1000'
- Reel-in-a-Box 500'
- 5363: 500' Reel-in-a-Box Only
- 5361: 500', 100' Pull Box or 1000' Reel Only
- Consult factory for other packaging options

STYLE	AWG	SHIELD	SWEEP FREQ.	NOM. VP	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
GENERAL PURPOSE – CATV, CL2 LISTED								
RG11/U	14 CCS	60% Al	2.4 GHz	82	16	0.395	65	5018 c
RG6/U	18 BC	60% Al	3 GHz	82	16	0.275	31	5304
RG6/U	18 BC	95% TC	3 GHz	82	16.5	0.280	39	5361
RG6/U	18 BC	95% TC	3 GHz	81	16.5	0.280	33	5363
RG6/U	18 CCS	40% Al	2.4 GHz	82	16	0.275	31	5010
RG6/U	18 CCS	80% Al	2.4 GHz	82	16	0.275	35	5011 c
RG6/U	18 CCS	60% Al	3 GHz	82	16	0.275	31	5003
DUAL RG6/U	18 CCS	40% Al	3 GHz	82	16	0.275 x 0.565	69	5012 c
RG59/U	20 CCS	40% Al	2.4 GHz	82	16	0.244	25	5006
RISER RATED – CATVR, CL2R, FT4 LISTED								
RG6/U	18 CCS	60% Al	3 GHz	82	16.5	0.275	33	5303
PLENUM RATED – CATVP, CL2P, FT6 LISTED								
RG6/U	18 CCS	65% Al	3 GHz	82	16	0.242	36	5353
WATER RESISTANT – CATV LISTED								
RG6/U	18 CCS	60% Al	1 GHz	82	16	0.275	32	5105

C Reels only

CCTV Coaxial Cables

Construction:

	Non-Plenum	Plenum	Water Resistant
Conductors	Solid Bare Copper		
Shield	95% Bare Copper Braid		
Jacket	PVC	Low-Smoke PVC	PE
Colors	Black, White	Natural	Black

Mini Coax Colors: Black, Blue, Green, Red, Yellow, White

Features:

- Sunlight Resistant (Except Plenum)

Popular Packaging:

- Pull Box 500', 1000'
- Reel 500', 1000'
- Reel-in-a-Box 500'

- Consult factory for other packaging options



CCTV COAXIAL – RG6/U

STYLE	AWG	SHIELD	NOM. VP	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
GENERAL PURPOSE – CL2 LISTED							
RG6/U	18 BC	95% BC	78	18	0.275	42	5002
RISER RATED – CL2R, FT4 LISTED							
RG6/U	18 BC	95% BC	78	18	0.270	45	5302
PLENUM RATED – CL2P, FT6 LISTED							
RG6/U	18 BC	95% BC	82	16	0.230	47	5352

CCTV COAXIAL – RG59/U

STYLE	AWG	SHIELD	NOM. VP	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
GENERAL PURPOSE – CL2 LISTED							
RG59/U	20 BC	95% BC	78	18	0.242	36	5001
RISER RATED – CL2R, FT4 LISTED							
RG59/U	20 BC	95% BC	78	18	0.232	38	5301
PLENUM RATED – CL2P, FT6 LISTED							
RG59/U	20 BC	95% BC	82	16	0.200	39	5351
WATER RESISTANT							
RG59/U	20 BC	95% BC	82	18	0.248	36	5103 c

CCTV COAXIAL – 75 OHM MINI

STYLE	AWG	SHIELD	NOM. VP	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
GENERAL PURPOSE – CL2 LISTED							
75 OHM MINI	24 BC	95% BC	78	18	0.145	15	5020

C Reels only

CCTV Coaxial + Power Cables

Construction:

	Non-Plenum	Plenum	Water Resistant
Coax Conductors	Solid Bare Copper		
Power Wires	18/2 Stranded Bare Copper		
Shield	95% Bare Copper Braid		
Jacket	PVC	Low-Smoke PVC	PE
Colors	Black, White	Natural	Black

Mini Coax Colors: Black, Blue, Green, Red, Yellow, White



Features:

- Sunlight Resistant (Except Plenum)

Popular Packaging:

- Pull Box 500', 1000'
- Reel 500', 1000'
- Reel-in-a-Box 500'
- Consult factory for other packaging options

CCTV COAXIAL – RG6/U + POWER PAIR

STYLE	AWG	SHIELD	POWER	NOM. VP	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
GENERAL PURPOSE – CL2 LISTED								
RG6/U + 18/2 SIAMESE	18 BC	95% BC	18/2 STR	78	18	0.450 x 0.275	35	5119

CCTV COAXIAL – RG59/U + POWER PAIR

STYLE	AWG	SHIELD	POWER	NOM. VP	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
GENERAL PURPOSE – CL2 LISTED								
RG59/U + 18/2	20 BC	95% BC	18/2 STR	78	18	0.360 x 0.285	66	5009 CH
RG59/U + 18/2 SIAMESE	20 BC	95% BC	18/2 STR	78	18	0.421 x 0.245	60	5013 C
RG59/U + 18/2 SIAMESE	20 BC	95% CCA	18/2 STR BC	78	16.5	0.240 x 0.425		6508
PLENUM RATED – CL2P, FT6 LISTED								
RG59/U + 18/2 SIAMESE	20 BC	95% BC	18/2 STR	82	16	0.421 x 0.245	65	5355
WATER RESISTANT								
RG59/U + 18/2	20 BC	95% BC	18/2 STR	82	18	0.421 x 0.245	65	5104 C

CCTV COAXIAL – 75 OHM MINI + POWER PAIR

STYLE	AWG	SHIELD	POWER	NOM. VP	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
GENERAL PURPOSE – CL2 LISTED								
75 OHM MINI + 20/2 SIAMESE	24 BC	95% BC	20/2 STR	78	18	0.145 x 0.278	29	5022

C Reels only
H Composite (under one jacket)

UTP + Power

Construction:

- Cat 5e UTP + 16/2 Power
- Siamese Construction

Features:

- Sunlight Resistant (Except Plenum)
- Supports Pan/Tilt/Zoom, Video, Audio, Data
- Ripcord
- Tested to 200 MHz

Product Benefits:

- Superior EMI interference rejection compared to coaxial cable
- Less expensive than dedicated coax or fiber
- Supports Pan/Tilt/Zoom capabilities
- Allows for longer distance runs
- Physically smaller than coax alternatives
- Extremely easy to install and terminate



Packaging:

- Consult factory for packaging options

UTP	POWER	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
RISER RATED – CMR, CL2R, FT4 LISTED				
24/2pr Cat5e	16/2 STR	0.170 x 0.360	38	5281
PLENUM RATED – CMP, CL2P, FT6 LISTED				
24/2pr Cat5e	16/2 STR	0.170 x 0.360	41	5381

Refer to Networking Section for Cat 6 and Cat 5e Cables for Power over Ethernet (PoE) Devices.