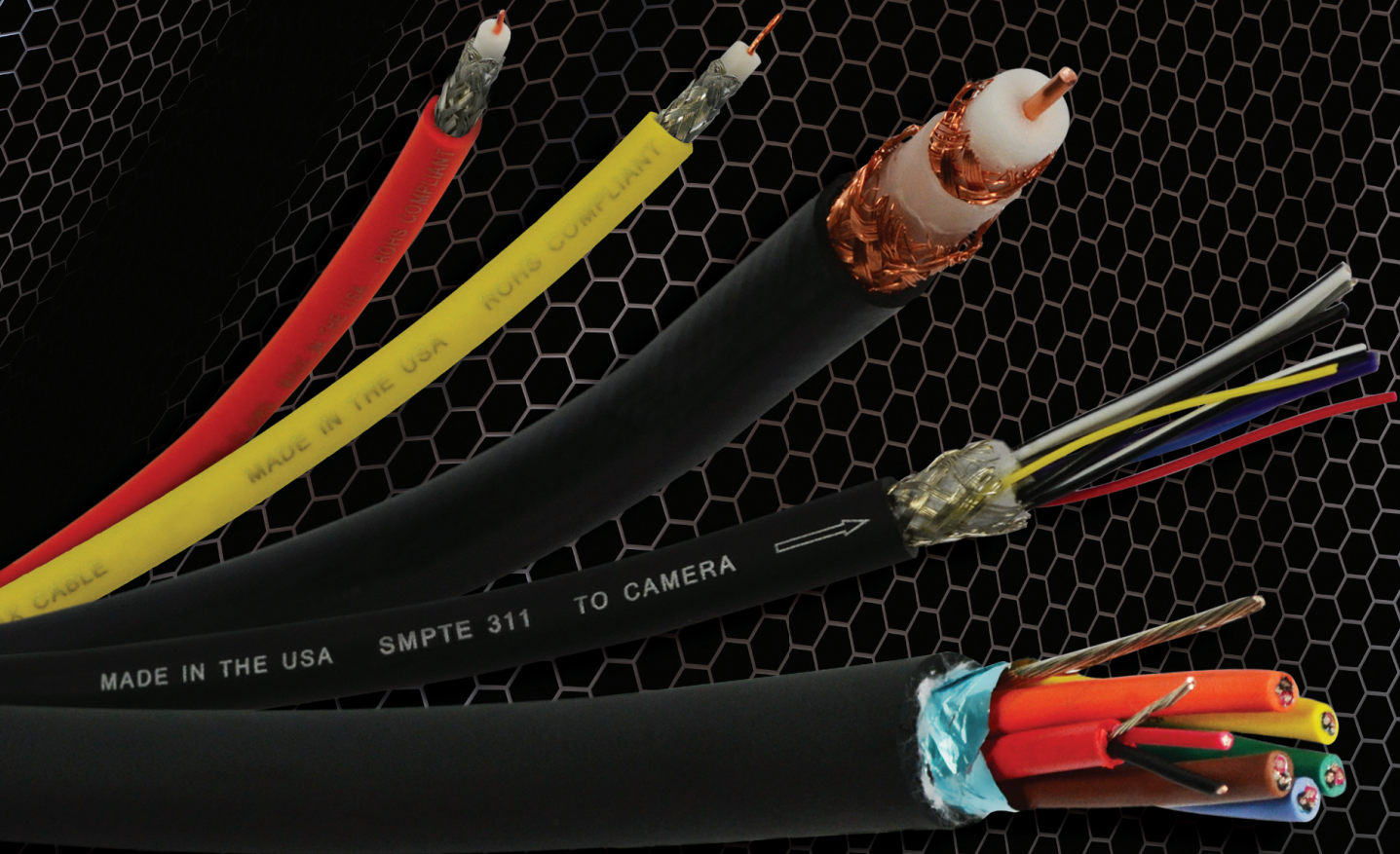


**YOUR WHOLE BROADCAST IS ON THE LINE.
TRUST ONE NAME ON THE CABLE.**



LAKECABLE
When Delivery Matters...

WE NEVER INTERRUPT THIS BROADCAST.

A strong reputation can be built in four generations. Yet, at Lake Cable, we still measure success one second at a time. Because we know that the sudden loss of a broadcast signal to a televised concert, news program or commercial can mean a great loss of revenue. It's a good thing we're the most well-positioned manufacturer to produce a line of broadcast cable that performs brilliantly in so many technical applications and settings.

After all, Lake Cable has been making cable since before WWII. This vast experience has enabled us to accumulate a level of understanding that brings together better engineering talent, resources and processes — which, in turn, helps us continually deliver the highest quality cable.

Add to this that we feature the shortest minimum runs, the fastest lead times in the industry and amazing customer service response to back every component we make.

If you demand a signal of high integrity and strong consistency, you'll find it at Lake Cable. Everywhere you look.





PRO AUDIO



SINGLE-CHANNEL VIDEO



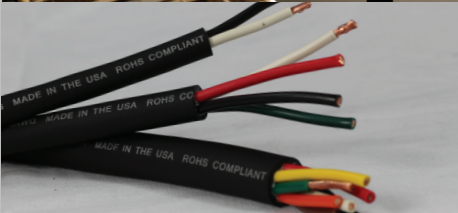
MULTI-CHANNEL VIDEO



CAMERA



MICROPHONE/MUSICAL INSTRUMENT



PORTABLE SPEAKER



CONTROL



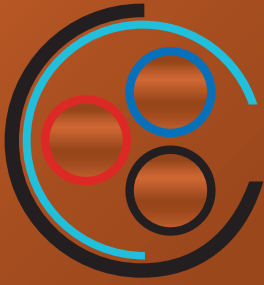
BULK AUDIO



SYSTEM-SPECIFIC



CATV/CCTV



***THE BROADCAST INDUSTRY HOLDS
ITSELF TO A HIGHER STANDARD.
OUR WIRE WAS MADE TO EXCEED IT.***

There's a reason why the broadcast field has come to depend on only a very select number of manufacturers. It's a specialized industry that demands nothing less than the most consistent level of technical excellence. So beyond securing the finest raw materials, we put our entire broadcast line at Lake Cable through a rigorous level of quality control testing and verification.

The result is a standard that's even higher than the one Society of Motion Picture and Television Engineers (SMPTE) sets for wire performance. When the greatest expectations come from within your own walls, that's how superior performance is delivered.

BETTER. SMARTER. FASTER.



All Lake Cable products are proudly made in the USA.



DELIVERING ON CUSTOMIZATION

How does Lake Cable stay ahead of the curve when it comes to solutions for Ultra High Definition Coaxial, Triaxial and Fiber Optic cable? Simple: Collaboration and customization. Working closely with specialized distributors and installers, Lake Cable develops custom products and designs that evolve for the audio/video marketplace.

Yet that's hardly the only way we customize. Since one size doesn't fit all in the broadcast industry, we stock our most popular items in bulk. By cutting cable to length, we can meet a wide variety of specifications.

One more thing — there's no such thing as "out of stock" in broadcast cable. If we don't inventory it, we'll make it.



DELIVERING ON 100% ACCOUNTABILITY

Our cell manufacturing environment and processing system enables you to have full traceability of every piece of raw material associated with your order in real time. Insulating, cabling, jacketing and packaging are all grouped together in "mini-factories." That means with every order associated with your broadcast cable you can know precisely:

- The compound used
- The type of copper
- The shipping date
- The materials shipped with the order
- The supplier of the raw materials

Plus, since our people are cross-trained to work as a team within each of these cells, we're remarkably equipped to deliver in a manner that's faster and more flexible than any broadcast cable manufacturer in the marketplace.



DELIVERING FOR SMALLER STAGES TOO

Strong audio and video output isn't only reserved for large settings such as stadiums, concert venues and network studios. It's just as important to smaller locations as well. It's in these applications that Lake Cable's versatile line of broadcast cable continues to shine:

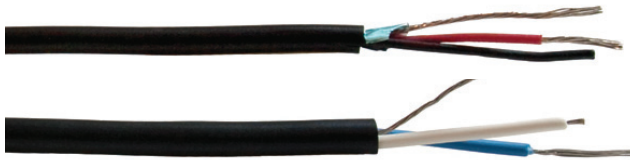
- School Auditoriums and Local Stage Productions
- Home Theater
- Houses of Worship
- Recording Studios
- Broadcast Studios — Post and Pre-Production



PRO AUDIO

ANALOG AND DIGITAL AUDIO CABLE

Single and Dual Channel



Single and dual channel analog and digital audio cables are designed for line-level balanced audio runs, racks and permanent installations.

FEATURES & BENEFITS

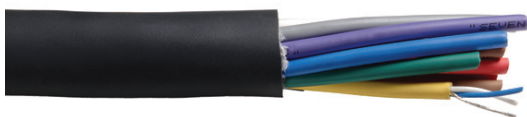
- Single channel and dual channel siamese constructed cable
 - Shielded pair with bonded aluminum polyester foil
 - Easy-to-strip jacket
 - Each pair features a drain wire located under the foil
 - Overall cable 100% shield with stranded drain wire
 - C(UL)US CMR
 - Meets or exceeds requirements of FT-4 flame test
 - Also available in plenum
- Call your Lake Cable representative for more information*

SPECIFICATIONS

Part Number	AWG (Stranding)	Cond. or Pair	Shield	Nom. Overall Diameter	Capacitance pF/ft - pF/m	Wt/1,000'
AVB221A	22 AWG (7/30 TC)	1 Pair	100% bonded foil w. drain	.147"	26 pF/ft (85 pF/m)	15
AVB241A	24 AWG (7/32 TC)	1 Pair	100% bonded foil w. drain	.131"	23 pF/ft (75 pF/m)	14
AVB241D	24 AWG (7/32 TC)	1 Pair	100% bonded foil w. drain	.176"	AES/EBU - 110Ω 12 pF/ft (39 pF/m)	15
AVB222AZ	22 AWG (7/30 TC)	2 Pair/Siamese	100% bonded foil w. drain	.147" x .289"	26 pF/ft (85 pF/m)	33

Conductor color code - Analog: black and red | Conductor color code - Digital: blue and white.

DIGITAL 110 OHM AES/EBU 24 AWG Snake Cable



Multi-pair digital audio snake cable offers extended bandwidth for digital audio, studio interconnects, portable snake or permanent installation and multi-pin assembly applications.

FEATURES & BENEFITS

- AES/EBU 4.096 MHz to 24.5 MHz bandwidth, 32 KHz to 192 KHz sampling rates
- Each pair shielded with a bonded aluminum polyester foil
- Easy-to-strip jacket
- Each pair includes a drain wire located under the foil
- Pairs are all jacketed and identified by color and alphanumeric print
- Multiple pairs are cabled and offer extreme flexibility
- Overall cable 100% shield with stranded drain wire
- Black matte TPE for extra-flexible and durable jacket
- C(UL)US CMG
- Meets or exceeds requirements of FT-4 flame test

SPECIFICATIONS

Part Number	AWG (Stranding)	Cond. or Pair	Nom. Overall Diameter	Capacitance pF/ft - pF/m	Wt/1,000'
AVB244DSC	24 AWG (7/32 TC)	4 Pair	.504"	12 pF/ft (39 pF/m)	101
AVB248DSC	24 AWG (7/32 TC)	8 Pair	.650"	12 pF/ft (39 pF/m)	166
AVB2412DSC	24 AWG (7/32 TC)	12 Pair	.786"	12 pF/ft (39 pF/m)	231
AVB2416DSC	24 AWG (7/32 TC)	16 Pair	.885"	12 pF/ft (39 pF/m)	312
AVB2424DSC	24 AWG (7/32 TC)	24 Pair	1.052"	12 pF/ft (39 pF/m)	432

Conductor color code white and blue | Pair jacket color - see fold-out on last page.

Also available with 26 AWG conductors for reduced diameter.

ANALOG 22 and 24 AWG SNAKE CABLE

Multi-Channel Pro Audio Cable



Multi-pair analog audio snake cable is designed for use in balanced line-level audio, microphone, studio interconnect, portable snake or permanent installation. Can also be used for patch bay and multi-pin assembly applications.

FEATURES & BENEFITS

- Shielded pairs with bonded foil
- Each pair features a drain wire located under the foil
- Easy-to-strip jacket
- Pairs are all jacketed and identified by color and alphanumeric print
- Multiple pairs are cabled and offer extreme flexibility
- Overall cable 100% shield with stranded drain wire
- Black matte TPE for extra-flexible and durable jacket
- C(UL)US CMR
- Meets or exceeds requirements of FT-4 flame test

SPECIFICATIONS

Part Number	AWG (Stranding)	Cond. or Pair	Nom. Overall Diameter	Capacitance pF/ft - pF/m	Wt/1,000'
AVB224ASC	22 AWG (7/30 TC)	4 Pair	.467"	26 pF/ft (85 pF/m)	105
AVB228ASC	22 AWG (7/30 TC)	8 Pair	.601"	26 pF/ft (85 pF/m)	191
AVB2212ASC	22 AWG (7/30 TC)	12 Pair	.671"	26 pF/ft (85 pF/m)	224
AVB2216ASC	22 AWG (7/30 TC)	16 Pair	.730"	26 pF/ft (85 pF/m)	280
AVB2220ASC	22 AWG (7/30 TC)	20 Pair	.800"	26 pF/ft (85 pF/m)	337
AVB2224ASC	22 AWG (7/30 TC)	24 Pair	.865"	26 pF/ft (85 pF/m)	394
AVB2228ASC	22 AWG (7/30 TC)	28 Pair	.925"	26 pF/ft (85 pF/m)	449
AVB2232ASC	22 AWG (7/30 TC)	32 Pair	.980"	26 pF/ft (85 pF/m)	505

Conductor color code black and red | Pair jacket color - see fold-out on last page.

SPECIFICATIONS

Part Number	AWG (Stranding)	Cond. or Pair	Nom. Overall Diameter	Capacitance pF/ft - pF/m	Wt/1,000'
AVB242ASC	24 AWG (7/32 TC)	2 Pair	.406"	23 pF/ft (75 pF/m)	71
AVB244ASC	24 AWG (7/32 TC)	4 Pair	.461"	23 pF/ft (75 pF/m)	103
AVB246ASC	24 AWG (7/32 TC)	6 Pair	.515"	23 pF/ft (75 pF/m)	123
AVB248ASC	24 AWG (7/32 TC)	8 Pair	.558"	23 pF/ft (75 pF/m)	152
AVB2412ASC	24 AWG (7/32 TC)	12 Pair	.617"	23 pF/ft (75 pF/m)	217
AVB2416ASC	24 AWG (7/32 TC)	16 Pair	.670"	23 pF/ft (75 pF/m)	272
AVB2420ASC	24 AWG (7/32 TC)	20 Pair	.734"	23 pF/ft (75 pF/m)	329
AVB2424ASC	24 AWG (7/32 TC)	24 Pair	.792"	23 pF/ft (75 pF/m)	384
AVB2426ASC	24 AWG (7/32 TC)	26 Pair	.819"	23 pF/ft (75 pF/m)	412
AVB2432ASC	24 AWG (7/32 TC)	32 Pair	.896"	23 pF/ft (75 pF/m)	494
AVB2448ASC*	24 AWG (7/32 TC)	48 Pair	1.068"	23 pF/ft (75 pF/m)	708
AVB2456ASC*	24 AWG (7/32 TC)	56 Pair	1.143"	23 pF/ft (75 pF/m)	814

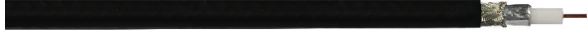
Conductor color code black and red | Pair jacket color - see fold-out on last page.

* Non-UL

SINGLE-CHANNEL HD VIDEO

HD-SDI 75Ω VIDEO CABLE

Serial Digital Interface Cable for
HD Video, Digital and Analog Signals



Designed to ensure the highest integrity of video broadcast signals.
Meets and/or exceeds industry and SMPTE standards.

FEATURES & BENEFITS

- High-grade copper conductors
- Gas-injected foam PE or foam FEP dielectric
- 100% AMA shield with a 95% tinned copper braid
- Flexible PVC jacket
- C(UL)US CMR or CMP
- Meets or exceeds requirements of FT-4 or FT-6 flame test

SPECIFICATIONS

Part Number	AWG/Cond. (Stranding)	Type	Dielectric Diameter/TYPE	Shield	Nom. Overall Diameter	Approvals	Wt/1,000'
AVB23HDTV	23 AWG (Solid BC)	Sub-Mini - RG59	.100" / GIFPE	Foil + 95% TC Braid	.164"	(UL) CMR	18
AVBRG59HDTV	20 AWG (Solid BC)	RG59	.146" / GIFPE	Foil + 95% TC Braid	.242"	(UL) CMR	35
AVPRG59HDTV	20 AWG (Solid BC)	RG59 (Plenum)	.134" / GIFFEP	Foil + 95% TC Braid	.202"	(UL) CMP	32
AVBRG6HDTV	18 AWG (Solid BC)	RG6	.180" / GIFPE	Foil + 95% TC Braid	.272"	(UL) CMR	42
AVPRG6HDTV	18 AWG (Solid BC)	RG6 (Plenum)	.170" / GIFFEP	Foil + 95% TC Braid	.237"	(UL) CMP	38
AVBRG7HDTV	16 AWG (Solid BC)	RG7	.225" / GIFPE	Foil + 95% TC Braid	.320"	(UL) CMR	60
AVBRG11HDTV	14 AWG (Solid BC)	RG11	.285" / GIFPE	Foil + 95% TC Braid	.405"	(UL) CMR	100
AVPRG11HDTV	14 AWG (Solid BC)	RG11 (Plenum)	.280" / GIFFEP	Foil + 95% TC Braid	.348"	(UL) CMP	91

Available jacket colors for non-plenum *AVBRG59HDTV* and *AVBRG6HDTV*: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray and White.

Available jacket colors for *AVBRG7HDTV* and *AVBRG11HDTV* are Black (plenum version is Natural/White).

AMA foil used on all cables.

Other jacket colors available upon request.

VELOCITY OF PROPAGATION: Non-Plenum 83% (Plenum 84%)

NOMINAL CAPACITANCE: 16.2 pF/ft (53 pF/m)

NOMINAL IMPEDANCE: 75 Ω

TYPICAL RETURN LOSS TEST RESULTS:

AVB23HDTV: 5MHz - 850MHz > 23dB // 850MHz - 3GHz > 21dB

For All Other Part Numbers: 5MHz - 1.5GHz > 23dB | 1.5GHz - 4.5GHz > 21dB

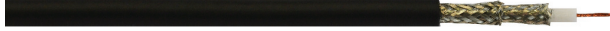
NOMINAL ATTENUATION (dB per 100 ft.)

Part Number	1MHz	3.6 MHz	10MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	540 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
AVB23HDTV	0.39	0.78	1.2	3.06	3.81	5.4	6.2	7.7	9.4	10.5	13	16	18.5	22.9
AVBRG59HDTV	0.29	0.58	0.88	2.1	2.7	3.8	4.4	5.5	6.4	7.6	9.3	11.6	13.4	16.4
AVPRG59HDTV	0.29	0.59	0.92	2.18	3	4.35	5.15	6.4	7.28	9.3	12.4	16.5	20.9	26.1
AVBRG6HDTV	0.23	0.44	0.71	1.64	2.16	3.1	3.59	4.6	5.08	5.95	7.6	9.71	10.98	14.98
AVPRG6HDTV	0.23	0.45	0.74	1.75	2.36	3.38	4	5.2	6.1	7.3	9.17	11.6	13.7	17.9
AVBRG7HDTV	0.16	0.34	0.54	1.28	1.7	2.4	2.8	3.6	4.05	4.8	5.89	7.25	8.4	10.9
AVBRG11HDTV	0.15	0.29	0.44	1.05	1.45	2.05	2.35	3.06	3.48	4	5.18	6.2	7.3	9.4
AVPRG11HDTV	0.15	0.26	0.4	1.15	1.75	2.4	3.15	3.89	4.37	5.3	6.88	7.5	10.2	13.5

SINGLE-CHANNEL HD VIDEO

HD-SDI 75Ω VIDEO PATCH CABLE

Serial Digital Interface Cable for
HD Video, Digital and Analog Signals



Designed to ensure the highest integrity of video broadcast signal.

FEATURES & BENEFITS

- High-grade copper conductors
- Gas-injected foam PE dielectric
- Double 95% tinned copper braid
- Flexible PVC jacket

SPECIFICATIONS

Part Number	AWG/Cond. (Stranding)	Type	Dielectric Diameter/TYPE	Shield	Nom. Overall Diameter	Wt/1,000'
AVBRG59DBHD	21 AWG (19 STR BC)	RG59	.057" / GIFFPE	Double Braid 95% TC	.242"	33
AVBRG6DBHD	19 AWG (19 STR BC)	RG6	.070" / GIFFEP	Double Braid 95% TC	.275"	45

Available jacket colors for non-plenum AVBRG59DBHD and AVBRG6DBHD: Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray and White.

AMA foil used on all cables.

Other jacket colors available upon request.

VELOCITY OF PROPAGATION: Non-Plenum 78%

NOMINAL CAPACITANCE: 17 pF/ft (56 pF/m)

NOMINAL IMPEDANCE: 75 Ω

TYPICAL RETURN LOSS TEST RESULTS:

AVBRG59DBHD and AVBRG6DBHD: 5MHz - 1GHz > 20dB // 1GHz - 3GHz > 15dB

NOMINAL ATTENUATION (dB per 100 ft.)

Part Number	1MHz	3.6 MHz	10MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz
AVBRG59DBHD	0.25	0.52	0.91	2.51	3.5	5.05	5.92	8.6	10.35	13.05	16.5	19.6
AVBRG6DBHD	0.22	0.5	0.73	2.04	2.81	4.05	4.76	7	8.28	10.47	13.22	15.63

MULTI-CHANNEL VIDEO

75Ω 23 AWG VIDEO CABLE Sub-Miniature Video Snake Cable



Designed for high-definition video for use in component or multi-channel HD video portable applications. Constructed to ensure the highest integrity of video broadcast signals. Also for digital or analog component systems that include video, infrared, line-level audio and data. Meets and/or exceeds SMPTE standards for HD video.

FEATURES & BENEFITS

- High-grade copper conductors
- Insulated with gas-injected foam PE dielectric
- 100% AMA shield with a 95% tinned copper braid
- Each coax contains a color-coded flexible PVC jacket
- Overall black matte TPE for extra-flexible and durable jacket
- C(UL)US CMR
- Meets or exceeds requirements of FT-4 flame test

SPECIFICATIONS

Part Number	AWG/Cond. (Stranding)	Type	Dielectric Diameter/TYPE	Cond. of Pair	Nom. O/A Diameter	Wt/1,000'
AVB23HD3C	23 AWG (Solid BC)	Miniature Video Snake SDI/HD	.100"/GIFPE	3C	.450"	124
AVB23HD5C	23 AWG (Solid BC)	Miniature Video Snake SDI/HD	.100"/GIFPE	5C	.568"	177
AVB23HD6C	23 AWG (Solid BC)	Miniature Video Snake SDI/HD	.100"/GIFPE	6C	.616"	209
AVB23HD10C*	23 AWG (Solid BC)	Miniature Video Snake SDI/HD	.100"/GIFPE	10C	.770"	340
AVB23HD12C*	23 AWG (Solid BC)	Miniature Video Snake SDI/HD	.100"/GIFPE	12C	.830"	369

VELOCITY OF PROPAGATION: Non-Plenum 83%

NOMINAL CAPACITANCE: 16.2 pF/ft (53 pF/m)

NOMINAL IMPEDANCE: 75 Ω

TYPICAL RETURN LOSS TEST RESULTS:

5MHz - 1.5GHz = 23dB | 1.5GHz - 3GHz = 21dB

NOMINAL ATTENUATION (dB per 100 ft.)

3.6 MHz	10MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	1 GHz	2.25 GHz	3 GHz
0.78	1.2	3.06	3.81	5.4	6.2	10.5	16	18.5

* Non-UL

MULTI-CHANNEL VIDEO

75Ω RGB MINI VIDEO CABLE

Multi-Channel Video Cable



Designed for high-definition video applications. Constructed to ensure the highest integrity of video broadcast signals. For digital or analog component systems that include video, infrared, line-level audio and data.

FEATURES & BENEFITS

- High-grade copper conductors
- Insulated with gas-injected foam PE dielectric
- 100% AMA shield with a 95% tinned copper braid
- Each coax contains a color-coded flexible PVC jacket
- Overall black matte TPE for extra-flexible and durable jacket
- Also available with PVC jacket which meets C(UL)US CMR and meets or exceeds requirements of FT-4 flame test

SPECIFICATIONS

Part Number	AWG (Stranding)	Type	Dielectric Diameter/Type	Cond. or Pair	Nom. O/A Diameter	Wt/1,000'
AVB3RGB	25 AWG (Solid BC)	Sub-Mini RG59 RGB	.085"/GIFPE	3c	.327"	60
AVB5RGB	25 AWG (Solid BC)	Sub-Mini RG59 RGBHV	.085"/GIFPE	5C	.445"	90
AVB6RGB	25 AWG (Solid BC)	Sub-Mini RG59 - RGBHVC	.085"/GIFPE	6c	.490"	130
AVB6RGB5E2	25 AWG (BC) (2) Cat 5E	Sub-Mini RG59 + (2) 4pr Data RGBHVC + (2) 4pr Data	.085"/GIFPE n/a	6C	.540"	145
VELOCITY OF PROPAGATION: Non-Plenum 83%		NOMINAL CAPACITANCE: 16.2 pF/ft (53 pF/m)		NOMINAL IMPEDANCE: 75 Ω		
TYPICAL RETURN LOSS TEST RESULTS: 5MHz - 1.5GHz > 23dB 1.5MHz - 3GHz > 21dB						

NOMINAL ATTENUATION (dB per 100 ft.)

3.6 MHz	10MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	1 GHz	2.25 GHz	3 GHz
1.2	1.8	4.6	5.68	7.74	9.13	15.55	20.2	27.58



UL APPROVED PRODUCT
CONTAINS A PVC JACKET



MULTI-CHANNEL VIDEO

75Ω RG59 VIDEO SNAKE CABLE

Multi-Channel Low Loss Video Cable



Designed for high-definition video applications. Constructed to ensure the highest integrity of video broadcast signals. For digital or analog component systems that include video, infrared, line-level audio and data.

FEATURES & BENEFITS

- High-grade copper conductors
- Insulated with gas-injected foam PE dielectric
- 100% AMA shield with a 95% tinned copper braid
- Each coax contains a color-coded flexible PVC jacket
- Overall black matte TPE for extra-flexible and durable jacket
- All cables meet or exceed the requirements of SMPTE standards
- Also available with PVC jacket which meets C(UL)US CMR and meets or exceeds requirements of FT-4 flame test

SPECIFICATIONS

Part Number	AWG (Stranding)	Type	Dielectric Diameter/Type	Cond. or Pair	Nom. Overall Diameter	Wt/1,000'
AVB3RG59HDTV	20 AWG (Solid BC)	RG59 Video Snake SDI/HD	.146"/GIFPE	3C	.631"	193
AVB5RG59HDTV	20 AWG (Solid BC)	RG59 Video Snake SDI/HD	.146"/GIFPE	5C	.746"	262
AVB6RG59HDTV	20 AWG (Solid BC)	RG59 Video Snake SDI/HD	.146"/GIFPE	6C	.842"	350
AVB10RG59HDTV	20 AWG (Solid BC)	RG59 Video Snake SDI/HD	.146"/GIFPE	10C	1.11"	522

VELOCITY OF PROPAGATION: Non-Plenum 83%

NOMINAL CAPACITANCE: 16.2 pF/ft (53 pF/m)

NOMINAL IMPEDANCE: 75 Ω

TYPICAL RETURN LOSS TEST RESULTS:

5MHz - 1.5 3GHz > 23dB | 1.5MHz - 3GHz > 21dB

NOMINAL ATTENUATION (dB per 100 ft.)

3.6 MHz	10MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	2.25 GHz	3 GHz
0.54	0.87	2.12	2.72	3.82	4.42	6.43	7.59	11.58	13.29



UL APPROVED PRODUCT
CONTAINS PVC JACKET



MULTI-CHANNEL VIDEO

75Ω RG6 VIDEO SNAKE CABLE Multi-Channel Low Loss Video Cable



Designed for high-definition video applications. Constructed to ensure the highest integrity of video broadcast signals. For digital or analog component systems that include video, infrared, line-level audio and data.

FEATURES & BENEFITS

- High-grade copper conductors
- Insulated with gas-injected foam PE dielectric
- 100% AMA shield with a 95% tinned copper braid
- Each coax contains a color-coded flexible PVC jacket
- Overall black matte TPE for extra-flexible and durable jacket
- All cables meet or exceed the requirements of SMPTE standards
- Also available with PVC jacket which meets C(UL)US CMR and meets or exceeds requirements of FT-4 flame test

SPECIFICATIONS

Part Number	AWG (Stranding)	Type	Dielectric Diameter/Type	Cond. or Pair	Nom. Overall Diameter	Wt/1,000'
AVB3RG6HDTV	18 AWG (Solid BC)	RG6 Video Snake SDI/HD	.180"/GIFPE	3C	.733"	180
AVB5RG6HDTV	18 AWG (Solid BC)	RG6 Video Snake SDI/HD	.180"/GIFPE	5C	.840"	290
AVB6RG6HDTV	18 AWG (Solid BC)	RG6 Video Snake SDI/HD	.180"/GIFPE	6C	.940"	408
AVB10RG6HDTV	18 AWG (Solid BC)	RG6 Video Snake SDI/HD	.180"/GIFPE	10C	1.20"	599

VELOCITY OF PROPAGATION: Non-Plenum 83%

NOMINAL CAPACITANCE: 16.2 pF/ft (53 pF/m)

NOMINAL IMPEDANCE: 75 Ω

TYPICAL RETURN LOSS TEST RESULTS:

5MHz - 1.5 3GHz > 23dB | 1.5MHz - 3GHz > 21dB

NOMINAL ATTENUATION (dB per 100 ft.)

3.6 MHz	10MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	2.25 GHz	3 GHz
0.44	0.69	1.64	2.11	2.99	3.42	4.99	5.88	9.14	10.68



UL APPROVED PRODUCT
CONTAINS PVC JACKET

TRIAXIAL 75Ω VIDEO CAMERA CABLE

Studio, Remote and Permanent Installation Camera Cable



Designed for studio, remote and permanent installation environments. 75Ω triaxial camera cables offer exceptional digital and analog signals from camera to the CCU unit.

FEATURES & BENEFITS

- Low attenuation
- 3 GHz bandwidth
- Crush-resistant gas-injected foam PE or foam FEP dielectric
- Inner BC braid, with solid PVC, PE or PVDF belt and outer BC braid
- Overall black TPE all-weather, PVC or PVDF jacket

SPECIFICATIONS

Part Number	AWG (Stranding)	Dielectric Diameter/Type	Inner Shield	Inner Jacket Diameter/Type	Outer Shield	Outer Jacket Diameter/Type
STUDIO AND REMOTE 75Ω TRIAXIAL CAMERA CABLE						
AVBRG11TRX	15 AWG (19X27) BC	.312" GIFPE	95% BC Braid	.392" TPE	95% BC Braid	.515" TPE
AVBRG59TRX	21 AWG (19X34) Compact BC	.146" GIFPE	95% BC Braid	.216" TPE	95% BC Braid	.360" TPE
AVBRG59TRX1F	20 AWG(Solid BC)	.146" GIFPE	95% BC Braid	.216" TPE	95% BC Braid	.360" TPE
PERMANENT INSTALLATION 75Ω TRIAXIAL CAMERA CABLE						
AVBRG11TRX1*	14 AWG (Solid BC)	.285" GIFPE	90% BC Braid	.365" TPE	90% BC Braid	.475" PVC
AVPRG11TRX1	14 AWG (Solid BC)	.285" GIFFEP	90% BC Braid	.350" PVDF	90% BC Braid	.413" PVDF
AVBRG59TRX1*	20 AWG (Solid BC)	.146" GIFPE	95% BC Braid	.216" TPE	95% BC Braid	.360" PVC

VELOCITY OF PROPAGATION:

RG11 Solid Non-Plenum: 83% | RG11 Stranded Non-Plenum: 78% | RG11 Plenum: 84% | RG59 Compact Strand: 78% | RG59 Solid Non-Plenum: 83%

NOMINAL CAPACITANCE:

RG11 Solid Non-Plenum: 16.2 pF/ft | RG11 Stranded Non-Plenum: 17.5 pF/ft | RG11 Solid Plenum: 16.2 pF/ft
 RG59 Stranded Non-Plenum: 17pF/ft | RG59 Solid Non-Plenum: 16.2pF/ft

NOMINAL IMPEDANCE: 75 Ω

TYPICAL RETURN LOSS TEST RESULTS:

100kHz - 1GHz > 21dB | 1GHz - 3GHz > 15dB

* Indicates part is (UL) Rated CMR C (UL) US

NOMINAL ATTENUATION (dB per 100 ft.)

Part Number	1MHz	3.6 MHz	10MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz
STUDIO AND REMOTE 75Ω TRIAXIAL CAMERA CABLE												
AVBRG11TRX	0.14	0.29	0.44	1.2	1.8	2.6	3.12	4.7	5.7	7.9	9.8	13.1
AVBRG59TRX	0.3	0.57	0.89	2.23	3.12	4.49	5.4	8.14	10.1	13.22	16.85	20.5
AVBRG59TRX1F	0.29	0.55	0.86	2.16	3.03	4.2	4.8	7	8.29	10.5	13.4	15.9
PERMANENT INSTALLATION 75Ω TRIAXIAL CAMERA CABLE												
AVBRG11TRX1	0.15	0.29	0.43	1.09	1.5	2.3	2.68	4.05	5	6.28	8	10.6
AVPRG11TRX1	0.15	0.25	0.4	1.22	1.82	2.86	3.35	5.3	6.58	8.9	11.95	14.88
AVBRG59TRX1	0.29	0.55	0.86	2.16	3.03	4.2	4.8	7	8.29	10.5	13.4	15.9

CAMERA

SMPTE 311 CAMERA CONTROL CABLE

Studio and Remote Environments



For use in conjunction with SMPTE 311 fiber cable. Designed to provide power and control to cameras where signal is transmitted via single mode fiber.

FEATURES & BENEFITS

- Compliant with SMPTE 311 electrical specifications
- Ideal for studio and field camera applications
- Extra-flexible, durable jacket

SPECIFICATIONS

Part Number	AWG (Stranding)	Cond. or Pair	Shield	Nom. Overall Diameter	SMPTE Standard	Wt/1000'
AVB16/22BRD	16 AWG (65/34 BC) 22 AWG (19/34 BC)	2C	O/A 90% TC Braid	.314"	Compliant with electrical specifications for SMPTE 311	78
AVP16/22BRD (Plenum)	16 AWG (65/34 BC) 22 AWG (19/34 BC)	2C	O/A 90% TC Braid	.208"	Compliant with electrical specifications for SMPTE 311	60

SMPTE 311 CAMERA CABLE

HD Camera to CCU



Designed for interconnect from Camera to CCU. Available in permanent install, portable use remote environment and Studio. Permanent install is UL-rated CMR and C(UL). For use with high-definition video cameras. Ultra low attenuation of fiber optic members enable extended distance data transmission. 16 awg steel strength member ensures secure termination to connector. Copper conductors carry power and signal.

FEATURES & BENEFITS

- Single-mode, bend tolerant ITU-T G.657.A1
- Ultra-low attenuation
- SMPTE 311-2009 (ST 311:2009) compliant
- Heat-resistant
- Six copper conductors
- Central strength member
- Braided shield for integrity of signal
- Extreme flex TPE jacket or riser-rated PVC jacket
- Copper conductors for signal and power

SPECIFICATIONS

Part Number	Fiber	Signal	Power	Strength Member	Jacket Type and Nom. Diameter	SMPTE Standard/Approvals
AVBSMPTE311	(2) SM/125μ/900μ core/clad/buffer .079"	(2) 24 AWG .050"	(4) 20 AWG .037"	16 AWG Galvanized Steel	Flexible/Durable TPE 9.2MM	ST311:2009
AVBSMPTE311R	(2) SM/125μ/900μ core/clad/buffer .079"	(2) 24 AWG .050"	(4) 20 AWG .037"	16 AWG Galvanized Steel	PVC - Permanent Install 9.2MM	ST311:2009 / (UL) CMR
AVBSMPTE12MM	(2) SM/125μ/900μ core/clad/buffer .079" Kevlar wrap, PVC Jacket .062"	(2) 24 AWG .050"	(4) 20 AWG .037"	16 AWG Galvanized Steel	Heavy Duty Polyurethane 12MM	ST311:2009
AVBSMPTE16MM	(2) SM/125μ/900μ core/clad/buffer .079"	(2) 24 AWG .050"	(4) 20 AWG .037"	16 AWG Galvanized Steel	Heavy Duty Polyurethane 16MM	ST311:2009

ELECTRICAL & OPTICAL SPECIFICATIONS

Fiber Attenuation	Signal Conductor DCR	Power Conductor DCR	Shield DCR	Insulation Resistance (Power or Signal)	Dielectric Resistance (Power or Signal)	Operating Temperature	SMPTE Standard
<0.50 dB/km @ 1310/1550nm	23.8 Ω/Mft	9.7 Ω/Mft	5.4 Ω/Mft	>10M Ω/km	3000 Volts RMS @ 20°C, 60Hz for 1 min.	-40°C to + 75°C (@ 0 to 95% humidity)	ST311 : 2009 Compliant (Meets and/or exceeds)

MICROPHONE/MUSICAL INSTRUMENT

MICROPHONE CABLE

Microphone or Line Level Balanced Audio



Designed for sound reinforcement and remote production. Used for connecting microphones to various audio equipment. Star Quad provides common mode rejection at each pin of an XLR connector to reduce noise and hum.

FEATURES & BENEFITS

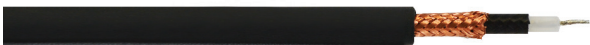
- 26 AWG through 20 AWG
- High-flex stranding
- Insulation/dielectric types: PE or PP
- Fillers for a round and smooth finish
- Tinned copper braid shield
- Extra-flexible, durable matte jacket

SPECIFICATIONS

Part Number	AWG/Cond. (Stranding)	Insulation	Shielding	Jacket	Nom. Overall	Impedance/ Capacitance	Wt/1,000'
AVB26MSQ	26 AWG/4C (30 STR BC)	.012" PE	95% TC Braid	.030" PVC Matte Finish	.190"	40Ω/39 pF/FT	26
AVB24MSQ	24 AWG/4C (42 STR BC)	.016" PE	95% TC Braid plus Drain Wire	.045" PVC Matte Finish	.245"	40Ω/39 pF/FT	38
AVB24MICT	24 AWG/2C (42 STR TC)	.018" PE	95% TC Braid	.035" PVC Matte Finish	.210"	89Ω/17.3 pF/FT	25
AVB20MICT	20 AWG 2C (26 STR TC)	.018" PP	95% TC Braid plus Drain Wire	.038" PVC Matte Finish	.255"	68Ω / 22 pF/ft	47

MUSICAL INSTRUMENT CABLE

Line or Instrument Level Unbalanced Audio



Cable designed for use in connecting musical instruments to mixers, amplifiers, effects gear and synergistic signal processing equipment. For indoor and remote applications.

FEATURES & BENEFITS

- 20 AWG through 18 AWG
- High strand count
- Insulation/dielectric: PE or foam PE
- Semi-conductive coating reduces the triboelectric effect, allowing excellent sound, free of microphonic noise
- Overall braid shield for integrity of signal
- Extra-flexible, durable matte TPE jacket

SPECIFICATIONS

Part Number	AWG/Cond. (Stranding)	Insulation	Shielding	Jacket	Nom. Overall	Wt/1,000'
AVB18GC	18 AWG/1C (41 STR TC)	.040" PE	.010" Conductive PVC 95% BC Braid	.048" Black matte finish	.275"	26
AVB20GC	20 AWG/1C (41 STR TC)	.040" FPE	.010" Conductive PVC 95% BC Braid	.060" Black matte finish	.265"	38

PORTABLE SPEAKER

PORTABLE SPEAKER CABLE Amplifier-to-Speaker Connections



Designed for amplifier-to-speaker interconnections.
Suitable for indoor and remote applications.

FEATURES & BENEFITS

- High strand extra-flexible copper stranding
- Overall tissue wrap for easy-to-strip jacket
- Extra-flexible, durable matte TPE jacket

SPECIFICATIONS

Part Number	AWG/Cond. (Stranding)	Cond. or Pair	Separator	Nom. Overall Diameter	Conductor Resistance	Wt/1,000'
AVB132C52	13 AWG (52/30 BC)	2C	O/A Tissue wrap	.349"	Conductor DCR 2.2Ω/Mft	88
AVB134C52	13 AWG (52/30 BC)	4C	O/A Tissue wrap	.422"	Conductor DCR 2.2Ω/Mft	133
AVB138C52	13 AWG (52/30 BC)	8C	O/A Tissue wrap	.588"	Conductor DCR 2.2Ω/Mft	260
AVB122C65	12 AWG (65/30 BC)	2C	O/A Tissue wrap	.415"	Conductor DCR 1.71Ω/Mft	106
AVB124C65	12 AWG (65/30 BC)	4C	O/A Tissue wrap	.510"	Conductor DCR 1.71Ω/Mft	165

CONTROL

DMX LIGHTING CONTROL CABLE DMX512 Control Cable



Designed for DMX lighting systems and RS485 applications.

FEATURES & BENEFITS

- High-grade extra-flexible tinned copper stranding
- Overall tissue wrap for easy-to-strip jacket
- Extra-flexible, durable matte TPE jacket
- Overall braid shield for integrity of signal/data

SPECIFICATIONS

Part Number	AWG/Cond. (Stranding)	Cond. or Pair	Shielding	Nom. Overall Diameter	Capacitance/Impedance pF/ft - OHMs	Wt/1,000'
AVBDMX4C	22 AWG (19/34 TC)	4C	Foil + 90% TC Braid	.270"	11 pF/FT - 120Ω	43
AVBDMX2C	22 AWG (19/34 TC)	2C	Foil + 90% TC Braid	.240"	11 pF/FT - 120Ω	43

Also available with 24 AWG conductors for reduced diameter.

WE DON'T CHASE TRENDS IN THE BROADCAST MARKET. WE'RE TOO BUSY CREATING THEM.

Higher standards. Greater customization. A need for smarter technology. Let's face it. The cable business as it pertains to Broadcast as well as Pro Audio/Video and Automation is only going to get more sophisticated from here, with practically no margin for error. That's why Lake Cable anticipates these evolutions in the market even before they happen, creating distinct advantages for our customers in both the Broadcast and Pro A/V and Automation product categories.

BROADCAST

Installers just feel better knowing they're using wire and cable that's backed by the strong reputation of Lake Cable. Our broadcast cables are trusted by major networks, mobile truck units, sporting event broadcasting, houses of worship and installations.

When delivery of high quality signal integrity and media transmissions to the world matters, Lake Cable shines within the Broadcast cable market like nobody else.

PRO A/V AND AUTOMATION

Using the same high standards for our Broadcast cable, we've designed our Avalanche Pro A/V and Automation line to meet the most stringent technical specifications of high end systems installed in not only high-end homes but also commercial buildings, airports, municipalities and more.

Our Pro Automation/System Specific line of cable has been designed for systems to make the process much easier for installation. The Lake Cable brand has been approved and tailored to the specifications of the most respected names.

BULK AUDIO

AVALANCHE™ KEYPAD/VOLUME CONTROL Keypad Volume Control



Cables are designed for home automation control keypad/volume control or where audio and data transmission is required. All cables meet or exceed the manufacturer's published electronic/electrical design parameters and are UL approved. High-grade copper conductors insulated with an insulation compound that enables clear and responsive low voltage power and/or communication/data quality transmission.

FEATURES & BENEFITS

- Extra flexible construction with an easy-to-strip jacket and ripcord
- Cables are installer-friendly
- Cables are (UL) CL3 or C(UL)US CM and meet all power-limited circuit applications
- All products are printed with footage markers to make installation easier

SPECIFICATIONS

Part Number	Commonly Known As	AWG	Conductor	Nom. OD	Approvals	Wt/Mft
AV164CAT5	Keypad/Volume Control	16 AWG (1) CAT5E	(4c jacketed) 4pr	.466"	(UL) CM, CL3 — EIA TIA CAT5E 350MHz	109
AV144CAT5	Keypad/Volume Control (Extended Run)	14 AWG (1) CAT5E	(4c jacketed) 4pr	.517"	(UL) CM, CL3 — EIA TIA CAT5E 350MHz	132
AV164CAT6	Keypad/Volume Control	16 AWG (1) CAT6	(4c jacketed) 4pr	.472"	(UL) CM, CL3 — EIA TIA CAT6 550MHz	122
AV144CAT6	Keypad/Volume Control (Extended Run)	14 AWG (1) CAT6	(4c jacketed) 4pr	.538"	(UL) CM, CL3 — EIA TIA CAT6 550MHz	145

BULK AUDIO

AVALANCHE™ SOUND CABLE Bulk Audio Non-Plenum



Lake Cable's high-end audio cables are designed for in-wall speakers and other bulk audio installations. All cables are UL approved. High-grade copper conductors insulated with an insulation compound that enables clear and responsive transmission of sound.

FEATURES & BENEFITS

- Extra flexible construction with an easy-to-strip jacket and ripcord
- Cables are installer-friendly
- Cables are (UL) CL3 or C(UL)US CM and meet all power-limited circuit applications
- All products are printed with footage markers to make installation easier

SPECIFICATIONS

Part Number	Commonly Known As	AWG	Conductor	Nom. OD	Approvals	Wt/Mft
AV162C65	Bulk Audio Cable	16(65 Str)	2c	.226"	(UL), CM, CL3, DIR BUR	34
AV164C65	Bulk Audio Cable	16(65 Str)	4c	.256"	(UL), CM, CL3, DIR BUR	54
AV142C105	Bulk Audio Cable	14(105 Str)	2c	.246"	(UL), CL3, DIR BUR	44
AV144C105	Bulk Audio Cable	14(105 Str)	4c	.298"	(UL), CL3, DIR BUR	80
AV122C65	Bulk Audio Cable	12(65 Str)	2c	.296"	(UL), CL3, DIR BUR	64
AV124C65	Bulk Audio Cable	12(65 Str)	4c	.334"	(UL), CL3, DIR BUR	115

AVALANCHE™ SOUND CABLE Bulk Audio Plenum



Lake Cable's high-end audio cables are designed for in-wall speakers and other bulk audio installations for commercial use or where installed in plenum area. All cables are UL approved. High-grade copper conductors insulated with an insulation compound that enables clear and responsive transmission of sound.

FEATURES & BENEFITS

- Extra flexible construction with an easy-to-strip jacket and ripcord
- Cables are installer-friendly
- Cables are (UL) CL3P or C(UL)US CMP
- Meets or exceeds requirements of FT-6 flame test
- All products are printed with footage markers to make installation easier

SPECIFICATIONS

Part Number	Commonly Known As	AWG	Conductor	Nom. OD	Approvals	Wt/Mft
AVP162C65	Pro/Commercial Audio	16 (65 Str)	2c	.196"	(UL) CMP, CL3P, C(UL)US FT6	28
AVP164C65	Pro/Commercial Audio	16 (65 Str)	4c	.230"	(UL) CMP, CL3P, C(UL)US FT6	51
AVP142C105	Pro/Commercial Audio	14 (105 Str)	2c	.200"	(UL) CMP, CL3P, C(UL)US FT6	40
AVP144C105	Pro/Commercial Audio	14 (105 Str)	4c	.265"	(UL) CMP, CL3P, C(UL)US FT6	73
AVP122C65	Pro/Commercial Audio	12 (65 Str)	2c	.252"	(UL) CL3P FT6	57
AVP124C65	Pro/Commercial Audio	12 (65 Str)	4c	.298"	(UL) CL3P FT6	107

SYSTEM-SPECIFIC

Lighting Cables - Lutron® Lutron® Non-Plenum



Lake Cable's Lutron® equivalent cables are designed for home or commercial installation of Lutron® systems for lighting and energy control. All cables meet or exceed the manufacturer's published electronic/electrical design parameters and are UL approved.

High-grade copper conductors insulated with an insulation compound that enables clear and responsive low voltage power and/or communication/data quality transmission.

FEATURES & BENEFITS

- Extra flexible construction with an easy-to-strip jacket and ripcord
- Cables are installer-friendly
- Cables are AWM 20811 600V or (UL)TC or CL3 or CL3R or C(UL)US CMR
- Meets or exceeds requirements of FT-4 flame test
- All products are printed with footage markers to make installation easier

SPECIFICATIONS

Part Number	Commonly Known As	AWG	Conductor	Jacket Color	Nom. OD	Approvals	Wt/Mft
AVLUQSHS-09	QS Cable	22AWG (shld)	2c	White	.255"	(UL) CL3R or CMR C(UL)	43
	QSH-CBL-M	16AWG (non-shld)	2c				
AVLUQSHL-09	QS Cable	22AWG (shld)	2c	White	.300"	(UL) CL3R or CMR C(UL)	74
	QSH-CBL-L	12AWG (non-shld)	2c				
AVLUTGN	Grafik Eye or Keypad	22AWG (shld)	2c	Light blue w/green stripe	.204"	(UL) CL3R or CMR C(UL)	35
	GRX-CBL-346S	18AWG (non-shld)	2c				
	Lutron Green						
AVLUTYW	Grafik Eye or Keypad	22AWG (shld)	2c	Light blue w/yellow Stripe	.204"	(UL) CL3R or CMR C(UL)	35
	GRX-CBL-346S	18AWG (non-shld)	2c				
	Lutron Yellow						
AVLUGRX4	Grafik Eye	22AWG (shld)	2c	Light blue w/blue stripe	.293"	(UL) CL3R or CMR C(UL)	87
	(Extended Runs)	12AWG (non-shld)	2c				
	GRX-CBL-46L	18AWG (non-shld)	1c				
	Lutron Royal Blue						
AVLUT216-18	ECCO System C-CBL-216	16AWG	2c	Gray	.283"	(UL) CL3 or AWM 20811	41
AVLUT522S-09	ECCO System C-CBL-522S	22AWG (shld)	5c	White	.292"	(UL) CL3 or AWM 20811	52
AV182LUT	Homeworks Cable Lutron Pink	18 AWG	2c	Light blue w/pink stripe	.264"	(UL), TC 600V	40
AV184LUT	Homeworks Cable Lutron White	18 AWG	4c	Light blue w/white stripe	.312"	(UL), TC 600V	63
AVLUTRD	Sivoia or Shade	18AWG (shld)	4c	Light blue w/red stripe	.350"	(UL) CL3 or CM C(UL)	90
	Cable	18AWG (non-shld)	1c				
	SVQ-CBL-250/500	16AWG (non-shld)	2c				
	Lutron Red						

SYSTEM-SPECIFIC

Lighting Cables - Lutron® Lutron® Plenum



Lake Cable's Lutron® equivalent cables are designed for commercial installation or where installed in a plenum area for use with Lutron® systems for lighting and energy control. All cables meet or exceed the manufacturer's published electronic/electrical design parameters and are UL approved.

High-grade copper conductors insulated with an insulation compound that enables clear and responsive low voltage power and/or communication/data quality transmission.

FEATURES & BENEFITS

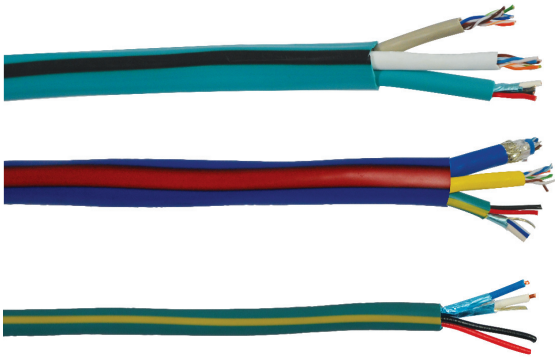
- Extra flexible construction with an easy-to-strip jacket and ripcord
- Cables are installer-friendly
- Cables are (UL) CL3P or C(UL)US CMP and meet all power-limited circuit applications
- Meets or exceeds requirements of FT-6 flame test
- All products are printed with footage markers to make installation easier

SPECIFICATIONS

Part Number	Commonly Known As	AWG	Conductor	Jacket Color	Nom. OD	Approvals	Wt/Mft
AVPLUQSHS-98	QS Cable	22AWG (shld)	2c	White	.239"	(UL) CL3P or CMP C(UL)	45
	QSH-PCBL-M	16AWG (non-shld)	2c				
	Lutron-P-QSC						
AVPLUQSHL-98	QS Cable	22AWG (shld)	2c	White	.299"	(UL) CL3P or CMP C(UL)	81
	QSH-PCBL-L	12AWG (non-shld)	2c				
AVPLUTGN	Grafik Eye or Keypad	22AWG (shld)	2c	Light blue w/green stripe	.214"	(UL) CL3P or CMP C(UL)	32
	GRX-PCBL-346S	18AWG (non-shld)	2c				
	Lutron-P-Green						
AVPLUTYW	Grafik Eye or Keypad	22AWG (shld)	2c	Light blue w/yellow Stripe	.214"	(UL) CL3P or CMP C(UL)	32
	GRX-PCBL-346S	18AWG (non-shld)	2c				
	Lutron-P-Yellow						
AVLUTGCC4P	Grafik Eye (Extended Runs)	22AWG (shld)	2c	Light blue w/blue stripe	.242"	(UL) CL3P or CMP C(UL)	53
	GRX-PCBL-46L	12AWG (non-shld)	2c				
	Lutron-P-Royal Blue	18AWG (non-shld)	1c				
AVPLUT216-98	ECCO System C-PCBL-216	16AWG	2c	Clear/Natural	.172"	(UL) CL3P OR CMP	27
AVPLUT522S-98	ECCO System C-PCBL-522S-WH	22AWG	5c	Clear/Natural	.143"	(UL) CL3P OR CMP	25
AVPLUTRD	Sivoia	18AWG (shld)	4c	White w/red stripe	.266"	(UL) CL3P or CMP C(UL)	67
	SVQ-PCBL-250/500	18AWG (non-shld)	1c				
	Lutron Red	16AWG (non-shld)	2c				

SYSTEM-SPECIFIC

Media Control Cables



Lake Cable's Media Control cables are designed for home or commercial installation for automation, control and media systems. All cables meet or exceed the manufacturer's published electronic/electrical design parameters and are UL approved.

High-grade copper conductors insulated with a proprietary high-end insulation compound that enables clear and responsive low voltage power and/or communication/data quality transmission.

FEATURES & BENEFITS

- Extra flexible construction with an easy-to-strip jacket and ripcord
- Cables are installer-friendly
- Cables are (UL) CL3 or CL3P, C(UL)US CM or CMP
- Meets or exceeds requirements of FT-4 or FT-6 flame test
- All products are printed with footage markers to make installation easier

SPECIFICATIONS

Part Number	Description	AWG	Conductor/Pair	Jacket Color	Nom. OD	Approvals	Wt/Mft
AVCRESNT	(1) Data Pair (2) Control Conductors	18 AWG 22 AWG	2c 1pr	Teal w/yellow stripe	.226"	(UL) CL3 or CM C(UL)	37
AVPCRESNT	(1) Data Pair (2) Control Conductors	18 AWG 22 AWG	2c 1pr	Teal w/yellow stripe	.183"	(UL) CL3P or CMP C(UL)	31
AVCRESCT	(1) AVCRESNT (1) Cat 5E	18 AWG 22 AWG (1)CAT5E	2c 1pr 4pr	Teal w/red stripe	.370"	(UL) CL3 OR CM C(UL)EIA TIA CAT5E 350MHz	79
AVCRESCTD	(1) AVCRESNT (2) Cat 5E	18 AWG 22 AWG (2)CAT5E	2c 1pr 8pr	Teal w/black stripe	.438"	(UL) CL3 OR CM C(UL)EIA TIA CAT5E 350MHz	121
AVCRESCQ	(1) AVCRESNT (4) Cat 5E	18 AWG 22 AWG (4)CAT5E	2c 1pr 16pr	Teal w/white stripe	.520"	(UL) CL3 OR CM C(UL)EIA TIA CAT5E 350MHz	176
AVCRESCDC	(1) AVCRESNT (2) RG6 Quad CATV (2) Cat 5E	18 AWG 22 AWG (2)CAT5E (2)RG6-Quad	2c 1pr 8pr 2c	Teal w/orange stripe	.677"	(UL) CL3 OR CM C(UL)EIA TIA CAT5E 350MHz, CATV	119
AVCRESNHP	(1) Data Pair (2) Control Conductors Extended Distance	12 AWG 22AWG	1pr 1pr	Teal w/brown stripe	.296"	(UL) CL3	76
AVCRESCDHP	(1) AVCRESNHP (2) Cat 5E	12 AWG 22AWG (2)CAT5E	1pr 1pr 8pr	Teal w/green stripe	.422"	(UL) CL3	147
AVCRESCQM	Siamese (1) AVCRESNT (1) Low Skew Cat 5	18 AWG 22 AWG CAT5	1pr 1pr 4pr	Teal w/yellow stripe	.224" x .195"	(UL) CM/Low Skew	62

SYSTEM-SPECIFIC

Vantage®

Vantage® Plenum & Non-Plenum



Lake Cable's Vantage® equivalent cables are designed for home or commercial installation of Vantage® systems for lighting, energy and media control. All cables meet or exceed the manufacturer's published electronic/electrical design parameters and are UL approved.

High-grade copper conductors insulated with a proprietary high-end insulation compound that enables clear and responsive low voltage power and/or communication/data quality transmission.

FEATURES & BENEFITS

- Extra flexible construction with an easy-to-strip jacket and ripcord
- Cables are installer-friendly
- Cables are (UL) TC or CL3 or CL3P, C(UL)US CM or CMP
- All products are printed with footage markers to make installation easier

SPECIFICATIONS

Part Number	Commonly Known As	AWG	Conductor/Pair	Nom. OD	Jacket Color	Approvals	Wt/Mft
AV162VANT	Vantage Cable	16 AWG	2c	.299"	Violet w/yellow stripe	UL, TC 600V or UL CL3 OR CM (UL) C(UL)	49
AV164VANT	Dual Run Vantage Cable	16 AWG	2pr	.343"	White w/blue stripe	UL, TC 600V or UL CL3 or CM (UL) C(UL)	80
AVP162VANT	300V Plenum Cable	16 AWG	2c	.176"	Violet	UL CL3P or CMP C(UL)	25
AVP164PVANT	Dual Run 300V Plenum Cable	16 AWG	2pr	.206"	White	UL CL3P or CMP C(UL)	42

AMX or ELAN® Control Systems

AMX or ELAN® Systems Equivalent



Cables are designed for home automation control system installations for high-end touch panel, keypad or automation and control systems. All cables meet or exceed the manufacturer's published electronic/electrical design parameters and are UL approved.

High-grade copper conductors insulated with a proprietary high-end insulation compound that enables clear and responsive low voltage power, communication/data and/or video quality transmission.

FEATURES & BENEFITS

- Extra flexible construction with an easy-to-strip jacket and ripcord
- Cables are installer-friendly
- Cables are (UL) CL3 or CL3P, C(UL)US CM or CMP
- Meets or exceeds requirements of FT-4 or FT-6 flame test
- A wide variety of color jackets are stocked that represent system-specific color coding for identification and proper connections to be made
- All products are printed with footage markers to make installation easier

SPECIFICATIONS

Part Number	Commonly Known As	AWG	Conductor/Pair	Nom. OD	Jacket Color	Approvals	Wt/Mft
AVAXLINK	AMX AxLink	18 AWG 22 AWG	2c 1pr Shld	.240"	Black	(UL) CL3 or CM C(UL)US	37
AVPAXLINK	AMX Plenum AxLink	18 AWG 22 AWG	2c 1pr Shld	.186"	Black	(UL) CL3P or CMP C(UL)US	32
AVELANVIA	ELAN VIA! Touch Panel Cable	18 AWG (1)CAT5E (1)RG59U-CCTV	(2c Jacketed) 4pr 1c	.432"	Black	(UL) CL3 OR CM C(UL)US	106

RG6 CATV QUAD SHIELDED - PLENUM and NON-PLENUM

Broadband CATV Video



Cables are designed for 75ohm CATV Video for analog and digital video transmission. All cables meet or exceed industry requirements and are UL approved.

FEATURES & BENEFITS

- All cables meet or exceed all electrical requirements
- Meets all required UL standards
- Cables are installer-friendly

High-grade solid bare copper or CCS center conductor insulated with a gas-injected foam PE or FEP insulation/dielectric. Each coax contains an aluminum foil and braid shield(s) for signal integrity and an overall flexible PVC jacket. All coax swept tested to meet or exceed all required frequencies.

SPECIFICATIONS

Part Number	AWG	Type	Dielectric Diameter	Braid Coverage	Nom O/A Diameter	Approvals	Wt/Mft
AVRG6CATVQ	18 AWG CCS	RG6 Quad	.180"	Foil + 60% - braid Foil + 40% - braid	.298"	(UL) CMR	36
AVPRG6CATVQ	18 AWG CCS	RG6 Quad (Plenum)	.170"	Foil + 60% - braid Foil + 40% - braid	.252"	(UL) CMP	32
AVRG6CATVQS	(2) 18 AWG CCS	RG6 Quad (Dual Siamese)	.180"	Foil + 60% - braid Foil + 40% - braid	.298" x .596"	(UL) CMR	72

VELOCITY OF PROPAGATION: 82%

CAPACITANCE: 16.2 pF/ft

Available jacket colors are black or white (custom colors available upon request).

Refer to page 22 for electrical attenuation chart.

RG6 CATV DUAL SHIELDED - PLENUM and NON-PLENUM

Broadband CATV Video



Cables are designed for 75ohm CATV Video for analog and digital video transmission. All cables meet or exceed industry requirements and are UL approved.

FEATURES & BENEFITS

- All cables meet or exceed all electrical requirements
- Meets all required UL standards
- Cables are installer-friendly

High-grade solid bare copper or CCS center conductor insulated with a gas-injected foam PE or FEP insulation/dielectric. Each coax contains an aluminum foil and braid shield(s) for signal integrity and an overall flexible PVC jacket. All coax swept tested to meet or exceed all required frequencies.

SPECIFICATIONS

Part Number	AWG	Type	Dielectric Diameter	Braid Coverage	Nom O/A Diameter	Approvals	Wt/Mft
AVRG6CATV	18 AWG CCS	RG6 Dual Shield	.180"	Foil + 60%-braid	.272"	(UL) CMR	34
AVPRG6BCATV	18 AWG BC	RG6 Dual Shield	.170"	Foil + 90%-braid	.233"	(UL) CMP	29

VELOCITY OF PROPAGATION: 82%

CAPACITANCE: 16.2 pF/ft

Available jacket colors are black or white (custom colors available upon request).

Refer to page 22 for electrical attenuation chart.

RG11 CATV QUAD SHIELDED - PLENUM and NON-PLENUM Broadband CATV Video



Cables are designed for 75ohm CATV Video for analog and digital video transmission. All cables meet or exceed industry requirements and are UL approved.

FEATURES & BENEFITS

- All cables meet or exceed all electrical requirements for CATV, Broadband Digital Video and data transmission
- Meets all required UL standards
- Cables are installer-friendly

High-grade solid bare copper or CCS center conductor insulated with a gas-injected foam PE or FEP insulation/dielectric. Each coax contains an aluminum foil and braid shield(s) for signal integrity and an overall flexible PVC jacket. All coax swept tested to meet or exceed all required frequencies.

SPECIFICATIONS

Part Number	AWG	Type	Dielectric Diameter	Braid Coverage	Nom O/A Diameter	Approvals	Wt/Mft
AVRG11CATVQ	14 AWG CCS	RG11 Quad	.285"	Foil + 60% - braid Foil + 40% - braid	.405"	(UL) CMR	66
AVPRG11CATVQ	14 AWG CCS	RG11 Quad	.280"	Foil + 60% - braid Foil + 40% - braid	.378"	(UL) CMP	62
VELOCITY OF PROPAGATION: 82%		CAPACITANCE: 16.2 pF/ft		Available jacket colors are black or white (custom colors available upon request).			

CATV ELECTRICAL ATTENUATION

Non-Plenum Electricals RG6U		Non-Plenum Electricals RG11U		Plenum Electricals RG6U		Plenum Electricals RG11U	
FREQUENCY	ATTENUATION dB/100ft	FREQUENCY	ATTENUATION dB/100ft	FREQUENCY	ATTENUATION dB/100ft	FREQUENCY	ATTENUATION dB/100ft
1 MHz	0.24 dB	1 MHz	0.17 dB	1 MHz	0.38 dB	1 MHz	0.15 dB
10 MHz	0.69 dB	10 MHz	0.45 dB	10 MHz	0.7 dB	10 MHz	0.45 dB
50 MHz	1.4 dB	50 MHz	0.89 dB	50 MHz	1.48 dB	50 MHz	0.9 dB
100 MHz	1.93 dB	100 MHz	1.21 dB	100 MHz	2.01 dB	100 MHz	1.28 dB
200 MHz	2.68 dB	200 MHz	1.68 dB	200 MHz	2.86 dB	200 MHz	1.85 dB
400 MHz	3.8 dB	400 MHz	2.37 dB	400 MHz	4.23 dB	400 MHz	2.75 dB
700 MHz	5.08 dB	700 MHz	3.27 dB	700 MHz	5.96 dB	700 MHz	3.92 dB
900 MHz	5.88 dB	900 MHz	3.77 dB	900 MHz	6.96 dB	900 MHz	4.72 dB
1000 MHz	6.16 dB	1000 MHz	3.95 dB	1000 MHz	7.45 dB	1000 MHz	5.04 dB
1450 MHz	6.76 dB	1450 MHz	5.08 dB	1450 MHz	9.34 dB	1450 MHz	6.67 dB
1800 MHz	7.51 dB	1800 MHz	5.58 dB	1800 MHz	10.69 dB	1800 MHz	7.71 dB
2200 MHz	9.13 dB	2200 MHz	6.29 dB	2200 MHz	11.54 dB	2200 MHz	8.5 dB
3000 MHz	11.2 dB	3000 MHz	7.58 dB	3000 MHz	13.07 dB	3000 MHz	9.88 dB

RG59 CCTV VIDEO - PLENUM

Single Coax and Siamese Construction



Cables are designed for Closed Circuit TV Digital Surveillance Cameras accommodating both video and power/control over single pair. All cables meet or exceed industry requirements and are UL approved.

High-grade copper conductors insulated with an insulation compound that enables the clear video and control signal quality.

FEATURES & BENEFITS

- Extra-flexible construction with an easy-to-strip jacket
- Cables are installer-friendly
- Cables are (UL) CL2P or C(UL)US CMP
- Meets or exceeds requirements of FT-6 flame test
- Available in reels or pull-out boxes

SPECIFICATIONS

Part Number	AWG BC	Type	Dielectric Diameter	Braid Coverage	Nom O/A Diameter	Approvals	Wt/Mft
AVPRG59CCTV	20 AWG BC	RG59 (Plenum)	.135"	95% BC	.193"	(UL) CMP	31
AVPRG59CCTV182	20 AWG BC Plus 18/2	RG59 video (Plenum)	.135"	95% BC	.198" x .382"	(UL) CMP	50
VELOCITY OF PROPAGATION: 82%		CAPACITANCE: 16.2 pF/ft		Available jacket colors are black or white (custom colors available upon request).			

Refer to page 25 for electrical attenuation chart.

RG59 CCTV VIDEO - NON-PLENUM

Single Coax and Siamese Construction



Cables are designed for Closed Circuit TV Digital Surveillance Cameras accommodating both video and power/control over single pair. All cables meet or exceed industry requirements and are UL approved.

High-grade copper conductors insulated with an insulation compound that enables the clear video and control signal quality.

FEATURES & BENEFITS

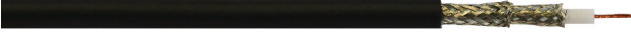
- Extra-flexible construction with an easy-to-strip jacket
- Cables are installer-friendly
- Cables are (UL) CL2R or C(UL)US CMR
- Meets or exceeds requirements of FT-4 flame test
- Available in reels or pull-out boxes

SPECIFICATIONS

Part Number	AWG BC	Type	Dielectric Diameter	Braid Coverage	Nom O/A Diameter	Approvals	Wt/Mft
AVRG59CCTV	20 AWG BC	RG59 (Non-Plenum)	.146"	95% BC	.242"	(UL) CMR	36
AVRG59CCTV182	20 AWG BC Plus 18/2	RG59 video (Non-Plenum)	.146"	95% BC	.242" x .482"	(UL) CMR	54
VELOCITY OF PROPAGATION: 82%		CAPACITANCE: 16.2 pF/ft		Available jacket colors are black or white (custom colors available upon request).			

Refer to page 25 for electrical attenuation chart.

RG59 CCTV VIDEO - DIRECT BURIAL/OUTDOOR PE Jacket (Non-UL)



Cables are designed for Closed Circuit TV Digital Surveillance Cameras accommodating both video and power/control over single pair.

High-grade copper conductors insulated with a proprietary high-end insulation compound that enables the clear video and control signal quality.

FEATURES & BENEFITS

- Extra-Durable PE jacket overall
- Cables are installer-friendly
- Suitable for outdoor use and direct burial applications
- Available in reels or pull-out boxes
- Double-braided shield for signal integrity

SPECIFICATIONS

Part Number	AWG	Type	Dielectric Diameter	Braid Coverage	Nom O/A Diameter	Approvals	Wt/Mft
AVRG59CCTVDB	20 AWG BC	RG59	.198"	Double 95% TC	.305"	Non-UL	74

VELOCITY OF PROPAGATION: 66%

CAPACITANCE: 21 pF/ft

Available jacket color is black (custom colors available upon request).

Attenuation for direct burial video available upon request.

RG6 CCTV VIDEO - PLENUM Single Coax and Siamese Construction



Cables are designed for Closed Circuit TV Digital Surveillance Cameras accommodating both video and power/control over single pair. All cables meet or exceed industry requirements and are UL approved.

High-grade copper conductors insulated with an insulation compound that enables the clear video and control signal quality.

FEATURES & BENEFITS

- Extra-flexible construction with an easy-to-strip jacket
- Cables are installer-friendly
- Cables are (UL) CL2P or C(UL)US CMP
- Meets or exceeds requirements of FT-6 flame test
- Available in reels or pull-out boxes

SPECIFICATIONS

Part Number	AWG BC	Type	Dielectric Diameter	Braid Coverage	Nom O/A Diameter	Approvals	Wt/Mft
AVPRG6CCTV	18 AWG BC	RG6 (Plenum)	.170"	95% BC	.235"	(UL) CMP	42
AVPRG6CCTV182	18 AWG BC Plus 18/2	RG6 video (Plenum)	.170" video	95% BC	.232" x .416"	(UL) CMP	58

VELOCITY OF PROPAGATION: 82%

CAPACITANCE: 16.2 pF/ft

Available jacket colors are black or white (custom colors available upon request).

Refer to page 25 for electrical attenuation chart.

RG6 CCTV VIDEO - NON-PLENUM

Single Coax and Siamese Construction



Cables are designed for Closed Circuit TV Digital Surveillance Cameras accommodating both video over twisted pair and power/control over single pair. All cables meet or exceed industry requirements and are UL approved.

High-grade copper conductors insulated with an insulation compound that enables the clear video and control signal quality.

FEATURES & BENEFITS

- Extra-flexible construction with an easy-to-strip jacket
- Cables are installer-friendly
- Cables are (UL) CL2R or C(UL)US CMR
- Meets or exceeds requirements of FT-4 flame test
- Available in reels or pull-out boxes

SPECIFICATIONS

Part Number	AWG BC	Type	Dielectric Diameter	Braid Coverage	Nom O/A Diameter	Approvals	Wt/Mft
AVRG6CCTV	18 AWG BC	RG6 (Non-Plenum)	.180"	95% BC	.270"	(UL) CMR	40
AVRG6CCTV182	18 AWG BC Plus 18/2	RG6 video (Non-Plenum)	.180"	95% BC	.270" x .469"	(UL) CMR	57
VELOCITY OF PROPAGATION: 82%		CAPACITANCE: 16.2 pF/ft		Available jacket colors are black or white (custom colors available upon request).			

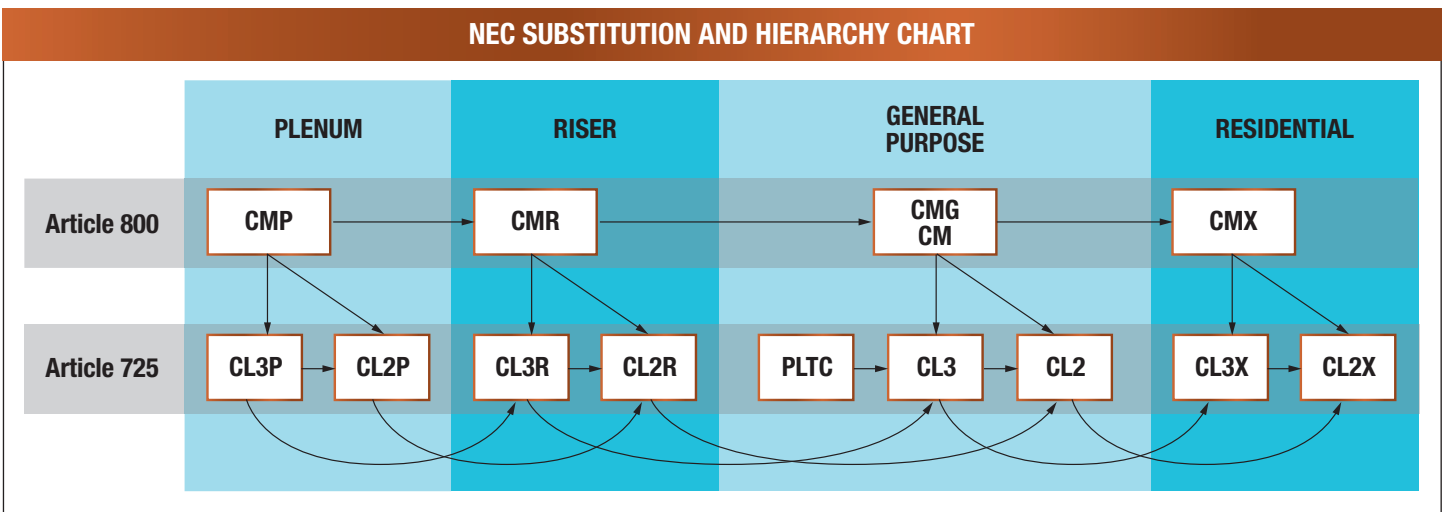
CCTV ELECTRICAL ATTENUATION

Non-Plenum Electricals RG59U		Non-Plenum Electricals RG6U		Plenum Electricals RG59U		Plenum Electricals RG6U	
FREQUENCY	ATTENUATION dB/100ft	FREQUENCY	ATTENUATION dB/100ft	FREQUENCY	ATTENUATION dB/100ft	FREQUENCY	ATTENUATION dB/100ft
1 MHz	0.23 dB	1 MHz	0.19 dB	1 MHz	0.3 dB	1 MHz	0.21 dB
10 MHz	0.78 dB	10 MHz	0.65 dB	10 MHz	0.84 dB	10 MHz	0.65 dB
50 MHz	1.79 dB	50 MHz	1.52 dB	50 MHz	1.89 dB	50 MHz	1.6 dB
100 MHz	2.56 dB	100 MHz	2.16 dB	100 MHz	2.71 dB	100 MHz	2.04 dB
200 MHz	3.7 dB	200 MHz	3.13 dB	200 MHz	3.86 dB	200 MHz	3.13 dB
400 MHz	5.34 dB	400 MHz	4.55 dB	400 MHz	5.85 dB	400 MHz	4.46 dB
700 MHz	7.1 dB	700 MHz	6.23 dB	700 MHz	8.42 dB	700 MHz	5.89 dB
900 MHz	8.01 dB	900 MHz	7.23 dB	900 MHz	9.83 dB	900 MHz	7.47 dB
1000 MHz	8.51 dB	1000 MHz	7.75 dB	1000 MHz	10.2 dB	1000 MHz	8.02 dB

TECHNICAL REFERENCE

HIGH-DEFINITION VIDEO DISTANCE CHART				
Recommended Transmission Distance (feet)				
DATA RATE:	270 Mb/s	360 Mb/s	1.5 Gb/s	3.0 Gb/s
Specification:	SMPTE 259M	SMPTE 259M	SMPTE 292M	SMPTE 424M
Application:	SD-SDI	SD-SDI Widescreen	HD-SDI	1080p/50 1080p/60
AVB23HDTV	720	622	203	149
AVP23HDTV	670	578	184	123
AVBRG59HDTV	1010	882	299	208
AVPRG59HDTV	848	741	259	174
AVBRG6HDTV	1299	1132	353	242
AVPRG6HDTV	1164	1013	313	210
AVBRG7HDTV	1520	1320	420	290
AVBRG11HDTV	1980	1722	530	353
AVPRG11HDTV	1634	1392	414	280
AVBRG59DBHD	813	709	312	197

The values listed above are for reference only and are subject to change.



CABLE TYPES AND SUBSTITUTION PERMISSIONS			
Cable Type and Usage	Substitutions	Cable Type and Usage	Substitutions
CMP - Communication Plenum Wire and Cable	-----	CL3R - Class 3 Riser Cable	CMP, CL3P, CMR
CMR - Communication Riser Wire and Cable	CMP*	CL2R - Class 2 Riser Cable	CMP, CL3P, CL2P, CMR, CL3R
CMG - Communication Cable - General Purpose	CMP*, CMR, CM	PLTC - Power-Limited Tray Cable	N/A
CM - Communication Cable	CMP*, CMR, CMG	CL3 - Class 3 Cable	CMP, CL3P, CMR, CL3R, CMG, CM, PLTC
CMX - Communication Cable with Limited Usage	CMP*, CMR, CMG, CM	CL2 - Class 2 Cable	CMP, CL3P, CL2P, CMR, CL3R, CL2R, CMG, CM, PLTC, CL3
CL3P - Class 3 Plenum Cable	CMP	CL3X - Class 3 Cable with Limited Usage	CMP, CL3P, CL2P, CMR, CL3R, CL2R, CMG, CM, PLTC, CL3, CL2, CMX, CL3X
CL2P - Class 2 Plenum Cable	CMP, CL3P	CL2X - Class 2 Cable with Limited Usage	CMP, CL3P, CL2P, CMR, CL3R, CL2R, CMG, CM, LTC, CL3, CL2, CMX, XCL23

For more details and specifications on application usage, please review articles 800 and 725 of the National Electrical Code.

* CMP substitution only allowed by Article 800.

TECHNICAL REFERENCE (CON'T)

TYPE BNC CONNECTOR CROSS-REFERENCE CHART

Lake Cable Part Number	Belden Equivalent	ADC Equivalent	Canare Equivalent	Kings Equivalent
AVB25HDTV	-----	BNC-16	N/A	2065-29-9
AVB23HDTV	1855A	BNC-13	BCP-B25HD	2065-11-9
AVP23HDTV	1855P	BNC13	-----	2065-11-9
AVBRG59HDTV	1505A	BNC-1	BCP-B4F	2065-2-9
AVBRG59DBHD	1505F	BNC-1	BCP-A42	2065-2-9
AVPRG59HDTV	1506A	BNC-6	BCP-A32	2065-2-9
AVBRG6HDTV	1694A	BNC-8	BCP-B53	2065-10-9
AVBRG6DBHD	1694F	BNC-8	BCP-B45HW	2065-10-9
AVPRG6HDTV	1695A	BNC-10	BCP-A55	2065-10-9
AVBRG7HDTV	1794A w/exception	BNC-27	N/A	2065-12-9
AVBRG11HDTV	7732A	BNC-25	BCP-C71A	2065-8-9
AVPRG11HDTV	7733A	BNC-25	N/A	2065-8-9

Connector listing is for reference only

TYPE F CONNECTOR CROSS-REFERENCE CHART

Lake Cable Part Number	Belden Equivalent	AIM Equivalent	Canare Equivalent	ADC Equivalent
AVBRG59HDTV	1505A	25-7030	FP-C4F	CF1
AVBRG59DBHD	1505F	N/A	FP-C4F	CF1
AVPRG59HDTV	1506A	25-7049	N/A	N/A
AVBRG6HDTV	1694A	25-7032	FP-C53	CF8
AVPRG6HDTV	1695A	25-7047	FP-C65	N/A
AVBRG7HDTV	1794A w/exception	N/A	N/A	N/A
AVBRG11HDTV	7732A	25-7190	FP-C71	N/A
AVPRG11HDTV	7733A	25-7190	FP-C71	N/A

Connector listing is for reference only

TRIAxIAL CONNECTOR CROSS-REFERENCE CHART

Cable Mount Triaxial				
	MALE	FEMALE	MALE	FEMALE
Lake Cable Part Number	ADC	ADC	Kings	Kings
AVBRG11TRX	ATCP-C12	ATCJ-C12	7705-3	7703-3
AVBRG11TRX1	ATCP-A12	ATCJ-A12	7705-1	7703-1
AVPRG11TRX	ATCP-D38	ATCJ-D38	7705-6	7703-8
AVBRG59TRX	ATCP-B38	ATCJ-B38	7705-2	7703-2
AVBRG59TRX1F	ATCP-B38	ATCJ-B38	7705-2	7703-2
AVBRG59TRX1	ATCP-B38	ATCJ-B38	7705-2	7703-2

Connector listing is for reference only

AMERICAN WIRE GAUGE SPECIFICATION CHARTS

STRANDED COPPER CONDUCTORS							
AWG	Stranding (Nom. AWG)	Minimum Average OD of Strand	Approximate OD		ASTM Min. Circular MIL Area	Min. Weight (lbs/1000ft)	Max. Resistance @ 68°F (Ω/1000ft)
			Inches	mm			
36	7x44	.002	.006	.152	25	.076	414.80
34	7x42	.002	.008	.191	39	.121	260.90
32	7x40	.003	.009	.236	64	.195	164.10
32	19x44	.002	.010	.254	64	.195	164.10
30	7x38	.004	.012	.305	100	.304	112.00
30	19x42	.002	.012	.305	100	.304	112.00
28	7x36	.005	.015	.381	159	.484	70.70
28	19x40	.003	.016	.406	159	.484	70.70
27	7x35	.005	.017	.432	202	.614	55.60
26	7x34	.006	.019	.483	253	.770	44.40
26	10x36	.005	.021	.533	253	.770	44.40
26	19x38	.004	.020	.508	253	.770	44.40
24	7x32	.008	.024	.610	404	1.229	27.70
24	10x34	.006	.024	.610	404	1.229	27.70
24	19x36	.005	.024	.610	404	1.229	27.70
24	41x40	.003	.023	.584	404	1.229	27.70
22	7x30	.010	.030	.762	640	1.947	17.50
22	19X34	.006	.031	.787	640	1.947	17.50
22	26X36	.005	.030	.762	640	1.947	17.50
20	7x28	.013	.038	.965	1020	3.103	10.90
20	20x30	.010	.037	.940	1020	3.103	10.90
20	19x32	.007	.037	.940	1020	3.103	10.90
20	26x34	.006	.036	.914	1020	3.103	10.90
20	41x36	.005	.038	.965	1020	3.103	10.90
18	7x26	.015	.048	1.220	1620	4.930	6.92
18	16x30	.010	.047	1.190	1620	4.930	6.92
18	19x30	.009	.049	1.240	1620	4.930	6.92
18	41x.34	.006	.047	1.190	1620	4.930	6.92
18	65x36	.005	.047	1.190	1620	4.930	6.92
16	7x24	.019	.060	1.520	2580	7.850	4.53
16	19x29	.012	.058	1.470	2580	7.850	4.35
16	26x30	.010	.059	1.500	2580	7.850	4.35
16	65x34	.006	.059	1.500	2580	7.850	4.35
16	105x36	.005	.059	1.500	2580	7.850	4.35
14	7x22	.024	.076	1.930	4110	12.500	2.73
14	19x26	.015	.071	1.800	4110	12.500	2.73
14	41x30	.010	.075	1.910	4110	12.500	2.73
14	105x34	.006	.075	1.910	4110	12.500	2.73
12	7x20	.031	.096	2.440	6530	19.860	1.71
12	19x25	.019	.093	2.360	6530	19.860	1.71
12	65x30	.010	.095	2.410	6530	19.860	1.71
12	165x34	.006	.095	2.410	6530	19.860	1.71
10	37x26	.017	.115	2.920	10380	31.580	1.08
10	65x28	.013	.120	3.050	10380	31.580	1.08
10	105x30	.010	.118	3.00	10380	31.580	1.08

SOLID COPPER CONDUCTORS					
AWG	Approximate OD		Nominal Circular MIL Area	Nominal Weight (lbs per 1000ft)	Nominal Resistance @ 68°F (Ω/1000ft)
	Inches	mm			
10	.101	2.600	10380	31.430	.99
11	.090	2.300	8234	24.920	1.26
12	.080	2.050	6530	19.770	1.58
13	.720	1.830	5178	15.680	2.00
14	.064	1.630	4107	12.430	2.52
15	.057	1.450	3260	9.860	31.84
16	.050	1.290	2583	7.820	4.01
17	.045	1.150	2050	6.200	5.06
18	.040	1.020	1620	4.917	6.38
19	.035	.912	1200	3.899	8.05
20	.032	.813	1020	3.092	10.15
21	.028	.724	812	2.452	12.80
22	.025	.643	640	1.945	16.14
23	.022	.574	511	1.542	20.36
24	.020	.511	404	1.223	25.67
25	.017	.455	320	.969	32.37
26	.015	.404	253	.769	40.81
27	.014	.361	201	.610	51.47
28	.012	.320	159	.483	64.90
29	.011	.287	126	.383	81.83
30	.010	.254	100	.304	103.20
31	.008	.226	79	.241	130.10
32	.008	.203	63	.191	164.10
33	.007	.180	50	.151	206.90
34	.006	.160	39	.120	260.90
35	.005	.142	31	.095	331.00
36	.005	.127	25	.075	414.80
37	.004	.114	19	.061	512.10
38	.004	.102	15	.047	648.60
39	.003	.089	12	.037	847.80
40	.003	.079	9	.029	1080.00

GLOSSARY OF TERMS

ACR - Attenuation Crosstalk Ratio. The difference between attenuation and crosstalk, measured in dB, at a given frequency. Important characteristic in networking transmission to assure that signal sent down a twisted pair is stronger at the receiving end of the cable than are any interference signals on that same pair by crosstalk from other pair(s).

AES/EBU - Digital audio standard established by the AES (Audio Engineering Society) and EBU (European Broadcast Union) organizations.

Alien Crosstalk - A measure of the unwanted signal coupling between cabling or components in close proximity.

Alternating Current (AC) - Electric current that alternates or reverses polarity in a cyclical manner (e.g. 60 Hz AC power).

AM - Amplitude modulation.

Ambient - Conditions that exist in the environment of the cable. Conditions existing at a test or operating location prior to energizing equipment (e.g. ambient temperature).

American Wire Gage (AWG) - A standard for expressing wire diameter. As the AWG number gets smaller, the wire diameter gets larger.

Analogue - Representation of data by continuously variable quantities as opposed to a finite number of discrete quantities in digital.

Analogue Signal - An electrical signal which varies continuously, not having discrete values. Analogue signals are copies or representations of other waves in nature. An analogue audio signal, for instance, is a representation of the pressure waves which make up audible sound.

Attenuation - The decrease in magnitude of a signal as it travels through any transmitting medium, such as a cable or circuitry. Attenuation is usually expressed logarithmically as the ratio of the original and decreased signal amplitudes. It is usually expressed in decibels (dB).

Audio - A term used to describe sounds within the range of human hearing (20 Hz to 20 kHz). Also used to describe devices which are designed to operate within this range.

Audio Frequency - Frequencies within the range of human hearing (approximately 20 Hz to 20 kHz).

Balanced Line - A cable having two identical conductors which carry voltages opposite in polarity, but equal in magnitude with respect to ground, suitable for differential signal transmission.

Balun - Balanced to unbalanced (Bal-un transformer used to connect an unbalanced transmission line (i.e. coaxial cable) to a balanced system or cable, or vice versa. It can also provide impedance transformation, as 300 ohm balanced to 75 ohm unbalanced.

Bandwidth - The difference between the upper and lower limits of a given band of frequencies. It is expressed in Hertz.

Bel - A unit that represents the logarithm of the ratio of two levels. One bel equals the base 10 logarithm of the ratio of two power levels.

Bend Radius - Radius of curvature that a flat, round fiber optic or metallic cable can bend without any adverse effects.

Bit - One binary digit.

Bit Error Rate - The number of errors occurring in a system per unit of time (e.g. bits per second).

Bits Per Second - The number of binary bits that can be transmitted per second (bps), i.e. Mbps (Mega = million), Gbps (Giga = billion).

BNC - Abbreviation for "Bayonet Neil-Concelman." A coaxial cable connector used in video and RF applications and named for its inventors.

Bonded - Adhesive application of a metallic shielding tape to the dielectric of a coaxial cable to improve electrical performance and ease of connector installation. Also refers to adhesive application of a metallic shielding tape to the jacket of a cable.

Braid - A group of textile or metallic filaments interwoven to form a tubular flexible structure which may be applied over one or more wires or flattened to form a strap.

Braid Angle - The angle between a strand of wire in a braid shield and the longitudinal axis (i.e. axis along the length of the center) of the cable it is wound around.

C - Capacitance (electrical). Celsius (temperature).

Cable - A group of individually insulated conductors or subcomponents twisted helically.

Canadian Electrical Code (CEC) - Canadian version of the US National Electrical Code (NEC).

Capacitance - The ability of a dielectric material between conductors to store energy when a difference of potential exists between the conductors. The unit of measurement is the farad. Cable capacitance is usually measured in picofarads (pF).

CATV - Abbreviation for Community Antenna Television. Cable TV.

CCTV - Closed-circuit television.

Cellular Polyethylene - Foam polyethylene, consists of individual closed cells of inert gas suspended in a polyethylene medium. The result is a desirable reduction of the dielectric constant decreasing attenuation and increasing the velocity of propagation.

Characteristic Impedance - In a transmission cable of infinite length, the ratio of the applied voltage to the resultant current at the point the voltage is applied. Or the impedance which makes a transmission cable seem infinitely long, when connected across the cable's output terminals.

CO - Central Office.

Coaxial Cable - A cylindrical transmission line composed of a conductor centered inside a metallic shield,

separated by a dielectric material, and usually covered by an insulating jacket. Used by cable TV companies to distribute signals to homes and businesses. Also used by telephone companies in some applications and by cellular telephone, radio and television installations.

Component Video - The unencoded output of a camera, video tape recorder, etc., whereby each red, green, and blue video signal is transmitted down a separate cable (usually coax) to improve picture quality. Can also refer to a video system where the luminance and chrominance video components are kept separate.

Composite Cable - Cable having conductors with two or more AWG sizes or more than one cable type.

Composite Video - The encoded output of a camera, video tape recorder, etc., whereby the red, green and blue video signals are combined with the synchronizing, blanking and color burst signals and are transmitted simultaneously down one cable.

Conductivity - The ability of a material to allow electrons to flow, measured by the current per unit of voltage applied. It is the reciprocal of resistivity and is measured in siemens (S) or mhos.

Conductor - A substance, usually metal, used to transfer electrical energy from point to point. Connector - A device designed to allow electrical flow from one wire or cable to a device on another cable. A connector will allow interruption of the circuit without any cutting of wire or cable or other preparation.

CPE - Chlorinated polyethylene can be used as either a thermoplastic or thermoset. It is an oil resistant material and makes an excellent jacket for control cable. As a thermoset, it can be used as an oil resistant cord jacket.

Crosstalk - Interference caused by signals from one Pair or cable being coupled into adjacent Pairs or cables. Can occur with audio, data or RF signals.

D1 - A component digital video recording format that conforms to the CCIR-601 standard. Records on the 19mm magnetic tape.

D2 - A composite digital video recording format. Records on 19 mm magnetic tape.

D3 - A composite digital video recording format. Records on 1/2 inch (12.7 mm) magnetic tape.

v dB - Direct current.

Decibel (dB) - A decibel is one-tenth of a bel and is equal to 10 times the logarithm of the power ratio, 20 times the log of the voltage ratio, or 20 times the log of the current ratio.

Dielectric - A (nonconducting) medium, it is the insulating material between conductors carrying a signal in a cable. In coaxial cables it is between the center conductor and the outer conductor. In twisted pair cables it is the insulation between conductors plus any surrounding air or other material.

GLOSSARY OF TERMS (CON'T)

Dielectric Constant - That property of a dielectric which determines the amount of electrostatic energy that can be stored by the material when a given voltage is applied to it. Actually, the ratio of the capacitance of a capacitor using the dielectric to the capacitance of an identical capacitor using a vacuum (which has a dielectric constant of 1) as a dielectric. A number which indicates the quality of a material to resist holding an electrical charge when placed between two conductors.

Digital Signal - An electrical signal which possesses two distinct states (on/off, positive/negative).

Distortion - Any undesired change in a wave form or signal.

Drain Wire - A non-insulated wire in contact with parts of a cable, usually the shield, and used in the termination to that shield and as a ground connection.

ENG - Electronic News Gathering.

f - Frequency.

Farad - A unit of capacity that will store one coulomb of electrical charge when one volt of electrical pressure is applied.

FEP - Fluorinated ethylene-propylene. A thermoplastic material with good electrical insulating properties and chemical and heat resistance.

Fiber - A single, separate optical transmission element characterized by core and cladding.

Fiber Optics - Light transmission through optical fibers for communication and signaling. A technology that transmits information as light pulses along a glass or plastic fiber. Optical fiber carries much more information than conventional copper wire and is generally not subject to interference.

Fiber to the home (FTTH) - A technology that provides voice, data and video services from the phone company's branch office to local customers over an all-fiber optic link.

Fluorocopolymer - Generic term for PVDF.

Frequency - The number of times a periodic action occurs in one second. Measured in Hertz.

Giga - One billion.

Gigahertz (GHz) - A unit of frequency equal to one billion Hz.

GND - Ground.

Ground Loop - A completed circuit between shielded pairs of a multiple pair created by random contact between shields. An undesirable circuit condition in which interference is created by a ground.

Ground Potential - The potential of the earth. A circuit, terminal or chassis is said to be at ground potential when it is used as a reference point for other potentials in the system.

Headroom - The amount by which a cable ACR exceeds the specified requirements. The TIA/EIA-568B standard specifies a minimum of 10dB of ACR for Category 5E certification at 100MHz.

Hertz (Hz) - Unit of frequency equal to one cycle per second.

Hum - To describe noise in an audio, video or other system that comes from 60 Hz power or its harmonic(s). So named for the low-frequency humming sound produced in audio systems. Usually hum is the result of undesired coupling from a 60 Hz source or of inadequate filtering of the DC output of an AC input power supply.

Impedance Match - A condition whereby the impedance of a particular circuit, cable or component is the same as the impedance of the circuit, cable or device to which it is connected.

Inductance - The property of wire which stores electrical current in a magnetic field around the wire. By coiling wire, the effect can be intensified.

Insertion Loss - A measure of the attenuation of a cable and/or component(s) by determining the output of a system before and after the device is inserted into the system.

IR - Insulation Resistance.

Jacket - Pertaining to wire and cable, the outer protective covering that may also provide additional insulation.

kB - Kilobyte.

Lay - The length measured along the axis of a wire or cable required for a single strand (in stranded wire) or conductor (in cable) to make one complete turn about the axis of the conductor or cable. In a twisted pair cable, the lay length is the distance it takes for the two wires to completely twist around each other.

Lay Direction - The direction of the progressing spiral twist in a cable while looking along the axis of the cable away from the observer. The lay direction can be either left or right.

Limpness - The ability of a cable to lay flat or conform to a surface as with microphone cables. The ability of a cable to bend in a short radius.

Line Level - Refers to the output voltage level of a piece of electronic equipment. Usually expressed in decibels.

Matte Finish PVC - A special formulation of PVC which very closely looks and feels like rubber.

MB - Megabyte.

Mega - Prefix meaning million.

Megahertz (MHz) - Unit of frequency equal to one million Hertz.

Microfarad - One-millionth of a farad (μf , μfd , mf and mfd are common abbreviations).

Micromicrofarad - One-millionth of a microfarad ($\mu\mu\text{f}$, mmf , mmfd are common abbreviations). Modern usage is picofarad (pF).

Nano - One-billionth.

Nanometer (nm) - One billionth of a meter.

Nanosecond - One billionth of a second.

National Electrical Code (NEC) - A publication of the National Fire Protection Association (NFPA) which outlines requirements for electrical wiring and building construction.

Noise - In a cable or circuit, any extraneous signal which tends to interfere with the signal normally present in or passing through the system.

Non-Plenum - A description for a cable that does not meet the requirements of NFPA 262 (UL 910) CMP flame test. Such a cable cannot be installed in an area that is used for air return (plenum).

NTSC - National Television System Committee. Organization that formulated standards for the current U.S. color television system. This system is used in most countries of the Americas and in other parts of the world. It was designed to be compatible with the existing monochrome TV sets, so that they would not become obsolete. Color televisions would also be able to receive monochrome transmissions. NTSC uses a 3.579545 MHz subcarrier whose phase varies with the instantaneous hue of the televised color and whose amplitude varies with the instantaneous saturation of the color. NTSC employs 525 lines per frame, 29.97 frames per second and 59.94 fields per second.

Ohm - The unit of electrical resistance. The value of resistance through which a potential difference of one volt will maintain a current of one ampere.

Ohm's Law - Stated $E=IR$, $I=E/R$ or $R=E/I$. The current I in a circuit is directly proportional to the voltage E , and inversely proportional to the resistance R .

Optical Waveguide Fiber - A transparent filament of high refractive index core and low refractive index cladding that transmits light.

PAL - Phase Alternation Line. PAL is a European color TV system featuring 625 lines per frame, 25 frames and 50 fields per second. Used mainly in Europe, China, Malaysia, Australia, New Zealand, the Middle East, and parts of Africa. PAL-M is a Brazilian color TV system with 525 lines per frame, 30 frames and 60 fields per second.

Patchcord - A flexible piece of cable terminated at both ends with plugs. Used for interconnecting circuits on a patchboard, in a wiring closet or at the work area.

Pico - One-trillionth.

Picofarad - One trillionth of a farad. A micromicrofarad. Abbreviated pF in modern usage or mmF in earlier usage.

Pitch - Nominal distance from center-to-center of adjacent conductors within a cable. When conductors are flat, pitch is usually measured from the reference edge of a conductor to the reference edge of the adjacent conductor.

Plenum - A compartment or chamber to which one or more air ducts are connected and that forms part of the air distribution system. A description for a cable that passes the NFPA 262 (UL-910) CMP flame test requirements.

Plug - A housing with male or female contacts.

GLOSSARY OF TERMS (CON'T)

Polyethylene (PE) - A thermoplastic material having excellent electrical properties. High insulation resistance. In terms of flexibility, polyethylene can be rated stiff to very hard, depending on molecular weight and density — low density being the most flexible and the high-density, high-molecular weight formulation being very hard. Moisture resistance is rated excellent.

Polypropylene (PP) - A thermoplastic similar to polyethylene but stiffer and having a higher softening point (temperature). Typically, it is harder than polyethylene. This makes it suitable for thin wall insulations. The dielectric constant is 2.25 for solid and 1.55 for cellular designs.

Polyurethane (PUR) - Noted for good abrasion and solvent resistance. Can be in solid or cellular form. This thermoplastic material is used primarily as a cable jacket material. It has excellent oxidation, oil, and ozone resistance. Some formulations also have good flame resistance. It is a hard material with excellent abrasion resistance. It has outstanding memory properties, making it an ideal jacket material for retractile cords.

Polyvinyl Chloride (PVC) - A general purpose thermoplastic used for wire and cable insulation and jackets.

Precision Video - Video coaxial cables that have tight electrical tolerances in impedance, velocity of propagation, attenuation and return loss. Used in applications such as live broadcast in network studios and pre- or post-production facilities.

Premise Cabling - Refers to the entire cabling system used for voice, data, video and power on a user's premise. For Local Area Networks, the cabling of choice includes unshielded twisted Pairs (UTP), fiber optic and coaxial cables. Of these, the UTP market is the largest, with greatest demand for cables with four Pairs that meet certain standards of performance, such as Category 5 and Category 5e.

Radio Frequency (RF) - Radio Frequency. Frequencies from a few kilohertz to several gigahertz. Used to transmit information from point to point over the airwaves or cable.

Reflection Loss - Part of a signal which is lost due to reflection of power at a line discontinuity.

Resistance - In DC circuits, the opposition a material offers to current flow, measured in ohms. In AC circuits, resistance is the real component of impedance, and may be higher than the value measured at DC.

RFI - Radio Frequency Interference.

RG/U - RG is the abbreviation for radio guide, a military designation for a coaxial cable, and U stands for universal.

RGB - Video signal: red, green and blue. Also refers to multi-coaxial cables carrying these signals. Abbreviation for the three parts of color.

Riser - Pathways that are provided to run riser cables from one floor to another.

SDI - Serial Digital Interface.

Serial Digital - Digital information transmitted in serial form. SDI informally refers to serial digital television signals that conform to the SMPTE 259M standard.

Serial Digital Interface - Informally refers to serial digital television signals that conform to the SMPTE 259M standard.

Shield - A metallic tape, serve or braid placed around or between electric circuits or cables or their components, to prevent signal leakage or interference.

Shield Percentage - The percentage of physical area of a circuit or cable covered by shielding material.

Shield Effectiveness - The relative ability of a shield to screen out interference and prevent signal leakage out of the cable.

Signal to Noise Ratio - The ratio of desired signal to undesired signal is often expressed in decibels. Used interchangeably with Attenuation Crosstalk Ratio (ACR) the difference between attenuation and crosstalk, measured in decibels (dB), at a given frequency. Important characteristic in networking transmission to assure that signal sent down a twisted pair is stronger at the receiving end of the cable than are any interference signals on that same pair by crosstalk from other pairs.

Skin Effect - The tendency of alternating current to travel only on the surface of a conductor as its frequency increases.

Snake Cable - A name describing individually shielded or individually shielded and jacketed, multi-pair audio cables. Used to connect multi-channel line level audio equipment.

Speed of light (c) - Approximately 2.998 x 10 meters per second

Standing Wave - The stationary pattern of waves produced by two waves of the same frequency traveling in opposite directions on the same transmission line.

Standing Wave Ratio (SWR) - A ratio of the maximum amplitude to the minimum amplitude of a standing wave stated in current or voltage amplitudes. (See also Standing Wave.)

Star Quad - A 4-conductor microphone cable where the conductors are spiraled together, which, when connected in an X configuration, greatly increases common mode noise rejection.

Stranded Conductor - A conductor composed of strands or groups of uninsulated wires.

Structural Return Loss - Magnitude of internal cable reflections, measured in decibels (dB), relative to the actual cable impedance, not the system impedance. Measure of signal reflections caused by the structure of the cable without the additional reflections from any impedance mismatch between the cable and the measuring equipment. Measure of internal cable reflections using a reference impedance in the measuring equipment that is adjusted to the nominal or average impedance of the cable. (See also Return Loss.)

S-Video - A transmission of video in which the two parts of the signal, the chrominance and luminance, are sent on separate transmission lines to provide better picture quality.

Sweep Test - Testing the electrical characteristics of a cable or device across a range of frequencies.

Teflon® - DuPont Company Trademark for fluorocarbon resins.

Tefzel® - DuPont Company trademark for a ETFE. Fluorocopolymer thermoplastic material that has excellent electrical properties, heat resistance, chemical resistance, toughness, radiation resistance and flame resistance.

Tensile Strength - The pull stress required to break a bare wire or other material.

Triaxial Cable - A cable having a conductor and two isolated braid shields, all insulated from each other. A coaxial cable with a second braid applied over an inner jacket and an outer jacket over the outer braid. Used in television camera systems.

Triboelectric Noise - Noise generated in a cable due to variations in capacitance between the shield and conductors as the cable is flexed.

UHF - Ultra High Frequency. International Telecommunications Union designation for the 300 to 3000 MHz band of frequencies.

UL - Underwriters Laboratories.

Unbalanced Line - A transmission line in which voltages on two conductors are unequal with respect to ground. A coaxial cable is a type of unbalanced line.

Velocity of Propagation (VP) - The speed of electrical energy in a length of cable compared to speed of light in free space. Expressed as a percentage.

Wall Thickness - The thickness of an insulation or jacket.

Wavelength - The distance between positive peaks of a signal. As the frequency increases, and waves get closer together, the wavelength decreases.

X - Symbol for reactance.

XLR - A multi-pin audio connector (typically 3 pins) used in microphone, line level and snake cable audio connections.

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leaving a positive legacy on our planet for the next generation.
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