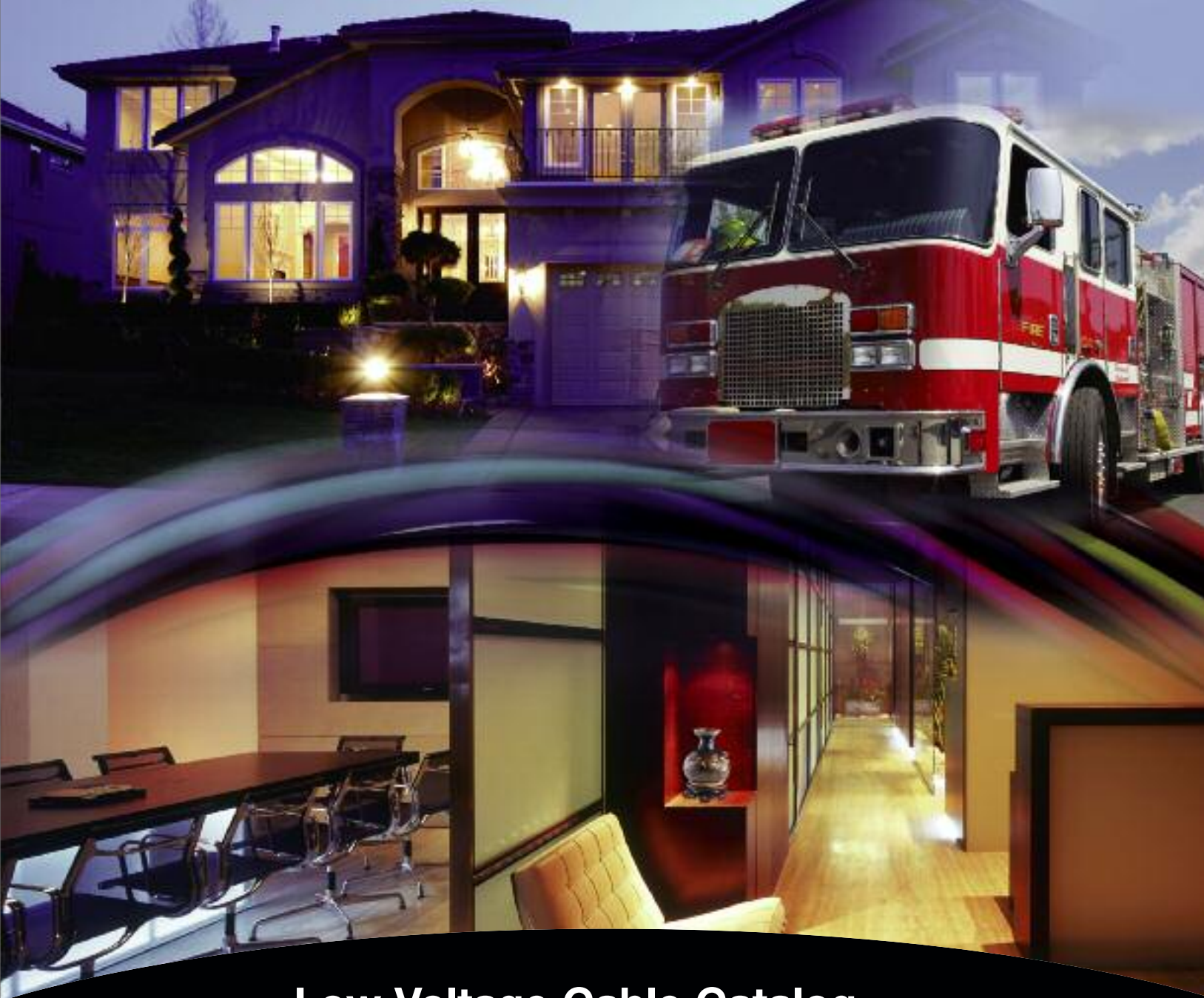


Genesis® Series Cable

Honeywell



Low Voltage Cable Catalog

Genesis® Series Cable



Select the best cable for that...

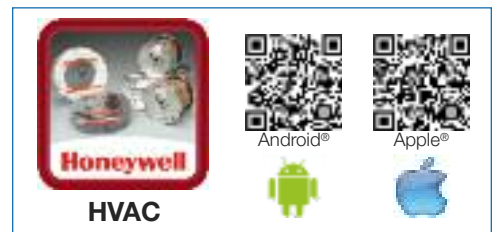
Insist on quality and reliability you can trust. Insist on Honeywell Genesis Series Cable.

Genesis Series Low Voltage Cables are produced with innovative equipment and technology in our state-of-the-art facility in Pleasant Prairie, Wisconsin. We offer a complete portfolio of quality Security, Fire, Sound, Video, Voice, Networking, HVAC and DataCom wire and cable to meet your business needs.

All Honeywell's Genesis Series cables are backed by the industry's only 3-for-1 guarantee.

Whatever your application, we've got a cable for that!

Scan the QR codes to download the Cable for That! apps for your iOS or Android™ device, and always know what cables you need for your application.



For more information please call **1-800-222-0060** or visit **www.honeywellcable.com**

Honeywell

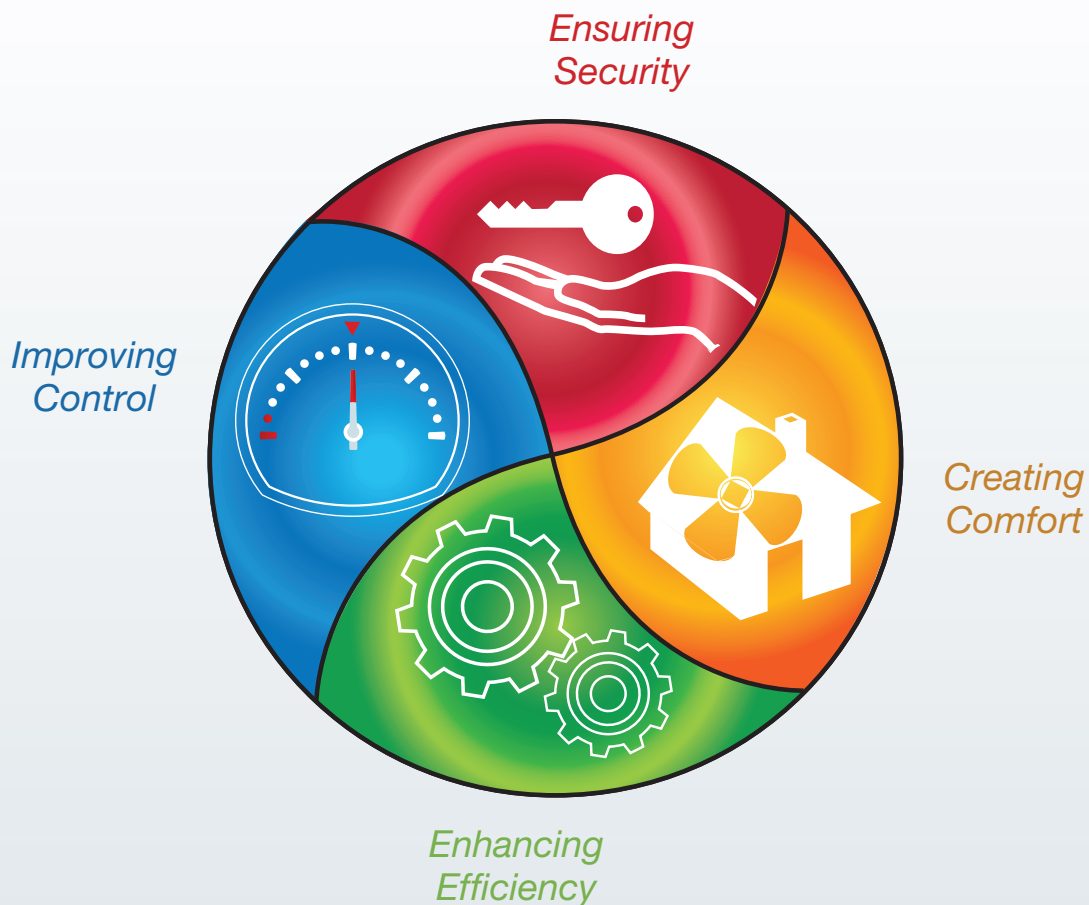
Table of Contents



Introduction to Honeywell Cable	2
Most Popular Cables	8
Security Cables Article 725/800	9
Unpaired Conductors	10
Zipcord	17
Paired Conductors	18
Control Cables	21
PROFUSION®	22
Automation & Building Control	23
Irrigation, Tracer & Lighting Cables	27
HVAC & Thermostat Cables	29
Thermostat Article 725	30
Mini-Split & THHN	32
Fire Alarm Cables Article 760	33
Conventional	34
Direct Burial	38
Mid-Capacitance	39
NYC LL5	40
Home Theater Cables Article 725/800	41
RGB Component - Digital Video	42
AUDACIOUS®	43
Combination Sound	44
Audio/Speaker	45
Direct Burial	46
Zipcord	47
Multimedia Cables Article 725/800	49
Network & IP Cables Article 725/800	53
Category 6	54
Category 5e	55
Category 3	56
Coaxial, CATV & CCTV Cables Article 820/725	59
CATV Coaxial Quad-Shielded	62
CATV Coaxial Dual-Shielded	63
CCTV Coaxial	64
CCTV Coaxial + Power	65
Outdoor Cables	67
Direct Burial	68
Water Resistant	70
Technical Data	71
Index	80

Our Commitment to You

At Honeywell Cable, we strive to be the most trusted, go-to brand for low-voltage cable and custom electronics in the security, electrical and HVAC markets. It is our mission to provide quality wiring products and responsive, reliable service to enable your success every day. Our world-class processes ensure you easily receive exactly what you need, when you need it, where you need it.



Honeywell Cable is your partner of choice for low-voltage cable. Here's why:

We provide customers all over North and South America with industry-leading, high quality cable, including security, fire, control, thermostat, home theater, multimedia, networking and coax cables and structured wiring for homes and small offices. Our trusted experience, combined with the quality and reliability of our products, allows your customers to meet their existing and emerging connectivity challenges. We offer cables that fit every budget for virtually any installation, including security, HVAC, home automation and control, networking, fire and video applications.

And, our pioneering product development only scratches the surface – we know that a trustworthy partnership is a prerequisite to a mutually profitable business relationship. With this in mind, Honeywell Cable stands on the partnership principles of:

Commitment

We're committed to you, our independent dealers, integrators and end-users.

Innovation

We deliver the newest innovations, technologies and products.

Support

We provide support and training to keep you ahead of the competition.

You are our business, and we are your partner of choice.

Support from Honeywell Cable — 800-222-0060

Honeywell Cable's outstanding sales/customer service and technical support is second to none in the low voltage cable industry. We are equipped with an extensive network of services that include: toll-free technical support and customer service, online technical documents and cross reference.

Toll-free Support:

Through our toll-free support line, customers get immediate help with troubleshooting and solutions from Honeywell Cable's product experts. Each call is treated with the utmost importance. This ensures that each customer gets the immediate response they need, when they need it most.

Customer Service:

Honeywell Cable's customer service representatives and sales representatives stand ready to answer your questions. Customers can rest assured that our customer service department will support them through every stage of the process to ensure that they get the immediate and accurate response they need.

Sales Support:

To help customers optimize the many features of their cable and structured solutions, Honeywell Cable provides on-site training for customers.

Product Innovation

WaveFLEX® Flexible Jacketing Technology

Honeywell Cable's patent-pending WaveFLEX jacketing makes cable easier than ever to strip—improving performance while reducing the likelihood of kinks and tearing braids or shielding. With incredible flexibility, the ridged jacketing makes termination a snap and is engineered to withstand the rigors of the most challenging installations while maintaining full UL specifications. The result? You'll save time, money and move on to the next job more quickly. What could be more appealing than that?

CCTV Coaxial Cable:

- Industry exclusive jacketing technology delivering more flexibility and easier terminations
- Countdown footage markings
- Camera and zone markings
- RoHS Compliant



AUDACIOUS® Sound Cable:

- Industry exclusive jacketing technology delivering more flexibility
- Easier to strip; making it less likely to nick conductors for optimal sound quality
- Oxygen-Free Copper for pure transmission area
- High strand count for prime flexibility and more surface area
- Countdown footage markings
- Channel, Room and Zone markings to minimize installation time
- RoHS Compliant



Customer Testimonials



“American Protective Security has been in business 27 years and we value service, inventory, reliability, and price as very important factors from our suppliers and manufacturers. ADI and Honeywell Cable have provided these to my business for many years. Honeywell Cable is so reliable, that their cable quality is always a non-issue for our company, which has been very important to count on as the backbone for many of our installations for years.”

– Bob Harrison, APS (*Daytona Beach, FL*)

“We support Brian Stock and Genesis Cable because of the superior service we receive from this company. We receive shipments the next day from their convenient Pleasant Prairie, WI warehouse. Their fill rate is always close to 100%. They offer competitive pricing that keeps us in the ballgame. Genesis's selection of Fire Alarm, Coax, Electronic and Category cable is comprehensive to suit our diverse customer base. Genesis offers unique items and works with us to manufacture and create a market for several specialty cables. We will continue to support Genesis Cable in the future.”

– Jeff Robinson , BJ Electric Supply, Inc. (*Madison, WI*)

“S & S Systems takes great pride in being among the top installation companies in the Chicagoland area, we look at every job as being a reflection of our company and that is why we buy the best products available to us. We buy Honeywell equipment and Genesis wire by Honeywell. We get calls every month from vendors trying to sell us wire at discount prices but we choose to stay with Honeywell Genesis cable because of the high quality and competitive pricing they provide us day in & out.

When your reputation is on the line go with Honeywell Genesis cable.”

– Bruce Engel, S & S Systems (*Bensenville, IL*)

Honeywell Cable Website - www.honeywellcable.com

Many useful tools can be accessed through our website, www.honeywellcable.com. You will find links to Honeywell Cable's Low Voltage Cable Catalog, company and industry news, new product innovations and featured product information.

Other website offerings include:

- Product specs and literature available for download in PDF format
- Selection guides and competitor cross reference tables
- Distributor and dealer locator tool

Customer Service

Honeywell Cable's Inside Sales team is here to help you with all your wire and cable questions and needs. A few of the support areas available include:

Gross references: comparing competitor parts

Stock inquiries: lead times, product availability

Product knowledge: technical data/information, applications for cables

Process special requests: minimums, color, details, labeling

Dealer, representative and distributor information

Fulfill catalog and sample requests

Our representatives are available between 7:30 a.m. and 5:00 p.m. Central Standard Time.

No matter what your question, we welcome the opportunity to speak with you.

The nationwide toll-free phone number is 800-222-0060.



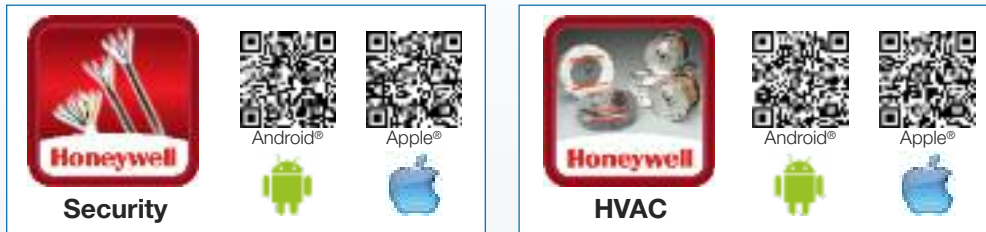
Access on the Go

Mobile Apps

Genesis Series Low Voltage Cables are produced with innovative equipment and technology in a state-of-the-art facility in Pleasant Prairie, Wisconsin. We offer a complete portfolio of quality Security, Fire, Sound, Video, Voice, Networking, HVAC and DataCom wire and cable to meet your business needs.

Download the Cable for That! apps for your iOS or Android™ device, and always know what cables you need for your application.

Whatever your application, "We've Got a Cable for That!"



Mobile Website - m.honeywellcable.com

Our newly launched mobile website, m.honeywellcable.com, is another way Honeywell Cable is committed to providing you the tools you need in order to be successful.

Accessible from all mobile devices, our mobile website keeps the information you need at your fingertips.

Mobile Tools Include:

- Product search
- Catalog and literature downloads
- Cable selection guides
- Product specs and information

What you need, when you need it, where you need it.



Most Popular Cables

		PAGE
SECURITY		
22/2 STR CM/CL2	1102	10
22/4 SOL CM/CL2	1103	10
22/4 STR CM/CL2	1104	10
18/2 STR CM/CL2	1118	12
18/4 STR CM/CL2	1119	12
22/2 STR CMP/CL2P	3102	11
22/4 STR CMP/CL2P	3104	11
18/2 STR CMP/CL2P	3114	12
18/4 STR CMP/CL2P	3115	12

ACCESS CONTROL

PROFUSION® (18/4 + 22/6 OAS + 22/2 + 22/4) CMP/CL2P	3195	22
PROFUSION® (18/4 + 22/6 OAS + 22/2 + 22/4) CM	1198	22

HVAC/THERMOSTAT

18/2 SOL CL2	4710	31
18/3 SOL CL2	4711	31
18/4 SOL CL2	4712	31
18/5 SOL CL2	4713	31
18/6 SOL CL2	4714	31
18/8 SOL CL2	4716	31

FIRE ALARM

22/4 SOL FPL	4101	36
18/2 SOL FPL	4106	36
18/4 SOL FPL	4107	36
16/2 SOL FPL	4111	37
16/4 SOL FPL	4112	37
14/2 SOL FPL	4113	37
18/2 SOL FPLR	4306	36
18/2 SOL FPLP	4506	36
18/4 SOL FPLP	4507	36
16/2 SOL FPLP	4511	37
16/4 SOL FPLP	4512	37
14/2 SOL FPLP	4513	37

HOME THEATER

		PAGE
16/2 STR CM/CL2	5250	47
16/4 STR CM/CL2	5251	47
16/2 65STR CMR/CL3R	5473	45
16/4 65STR CMR/CL3R	5474	45

NETWORKING/IP

24/4pr Cat 5e CMR	5078	57
24/4pr Cat 5e CMP	5088	57
24/4pr Cat 5e CM	6330	57
23/4pr Cat 6 Plus CMR	5092	56
23/4pr Cat 6 Plus CMP	5102	56
23/4pr Cat 6 CMR	6360	56
23/4pr Cat 6 CMP	6361	56

COAXIAL/CATV/CCTV

RG6/U 18 AWG CCS DUAL-Shield CATV/CL2	5003	65
RG6/U 18 AWG CCS QUAD-Shield CATV/CL2	5007	64
RG59/U 95% BC Braid CL2	5001	66
RG59/U 95% BC Braid + 18/2 STR Siamese CL2	5013	67
RG59/U 95% BC Braid + 18/2 STR Siamese CL2P	5355	67
RG59/U 95% BC CCA Braid + 18/2 CL2	6508	67
Cat 5e UTP + 16/2 power CL2R	5281	68
Cat 5e UTP + 16/2 power CL2P	5381	68

OUTDOOR CABLES

16/2 FPL Fire Alarm	4151	69
24/4 Cat 5e	5090	70
RG6/U CATV (QUAD)	5106	70

Security Cables



Our multi-conductor cables are manufactured in a wide variety of gauge sizes, shielding configurations and jacketing materials including plenum, riser and general purpose. Applications for these cables include alarms, intercoms, speakers and other low voltage circuits that are power limited.

Features:

- Countdown or sequential footage markings
- New labeling system on boxes
- Color coded boxes
- Zone and room markings

Article 725/800*:

Class 1, Class 2 and Class 3 remote-control, signaling and power limited circuits that are not an integral part of a device or appliance.

The scope of this article may include systems such as burglar alarm, access control, sound, nurse call, intercom circuits, some computer network systems, some control circuits for lighting dimmer systems, and some low voltage control circuits that originate from listed computer equipment.

General Purpose Cable:

Type CM, CL2, CMR, CL2R, CMP, CL2P.

Cables may be dual rated CM/CL2, CMR/CL2R, CMP/CL2P.

**See Article 800 for more information.*

Multi-Conductor Cable – Unshielded

Construction:

	Non-Plenum	Plenum
Conductors	Bare Copper	
Insulation	PP	Low-Smoke PVC
	Conductor Color Code Chart 1 (≤12 Conductors) Conductor Color Code Chart 2 (>12 Conductors)	
Jacket	PVC	Low-Smoke PVC



Features:

– Sunlight Resistant (*Except Plenum*)

24 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
24	4	SOL	24	14	0.105	10	1140

22 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
22	2	SOL	17.3	16	0.104	8	1101
22	2	STR	16.5	16	0.114	9	1102
22	4	SOL	17.3	16	0.116	14	1103 *
22	4	STR	16.5	16	0.133	15	1104
22	5	STR	16.5	16	0.145	19	1105
22	6	SOL	17.5	16	0.140	19	1106
22	6	STR	16.5	16	0.158	21	1107
22	8	SOL	17.5	16	0.152	25	1108
22	8	STR	16.5	16	0.172	28	1109
22	10	SOL	17.5	16	0.174	29	1110
22	10	STR	16.5	16	0.200	33	1111
22	12	SOL	17.3	16	0.182	35	1112
22	12	STR	16.5	16	0.204	40	1113

* Color code: Black, Red, Green, Yellow

Multi-Conductor Cable – Unshielded (continued)

22 AWG – UNSHIELDED (continued)

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
RISER RATED – CMR, CL2R, FT4 LISTED							
22	2	SOL	17.0	16	0.106	9	2101
22	2	STR	16.5	16	0.116	11	2102
22	4	SOL	17.3	16	0.120	14	2103 *
22	4	STR	16.6	16	0.135	16	2104
22	5	STR	16.6	16	0.145	18	2105
22	6	STR	16.5	16	0.158	21	2106
22	8	STR	16.5	16	0.174	28	2107
22	10	STR	16.5	16	0.202	35	2108
22	12	STR	16.5	16	0.208	37	2109
PLENUM RATED – CMP, CL2P, FT6 LISTED							
22	2	SOL	17.0	24	0.104	10	3101
22	2	STR	16.5	24	0.114	11	3102
22	3	STR	16.5	25	0.120	15	3127
22	4	SOL	17.5	24	0.116	15	3103
22	4	STR	16.5	24	0.133	17	3104
22	6	STR	16.5	24	0.158	24	3106
22	8	STR	16.5	24	0.172	30	3107
22	10	STR	16.5	24	0.200	37	3108
22	12	STR	16.5	24	0.204	43	3109

20 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
20	4	STR	10.5	17	0.155	22	1117
RISER RATED – CMR, CL2R, FT4 LISTED							
20	2	STR	10.3	16	0.136	14	2112
20	4	STR	10.3	16	0.157	22	2113
PLENUM RATED – CMP, CL2P, FT6 LISTED							
20	2	STR	10.3	27	0.132	15	3112
20	3	STR	10.3	28	0.140	20	3128
20	4	STR	10.3	27	0.155	25	3113

* Color code: Black, Red, Green, Yellow

Multi-Conductor Cable – Unshielded (continued)

Construction:

	Non-Plenum	Plenum
Conductors	Bare Copper	
Insulation	PP	Low-Smoke PVC
	Conductor Color Code Chart 1 (≤12 Conductors) Conductor Color Code Chart 2 (>12 Conductors)	
Jacket	PVC	Low-Smoke PVC

Features:

– Sunlight Resistant
(Except Plenum)

18 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
18	2	STR	6.5	18	0.148	18	1118
18	2	SOL	6.5	18	0.136	16	1138
18	3	STR	6.5	18	0.159	24	1130
18	4	STR	6.5	18	0.172	30	1119
18	6	STR	6.5	18	0.206	44	1120
18	8	STR	6.5	18	0.225	55	1121
18	10	STR	6.5	18	0.270	70	1122
18	12	STR	6.5	18	0.277	80	1123
RISER RATED – CMR, CL2R, FT4 LISTED							
18	2	STR	6.5	18	0.150	18	2114
18	4	STR	6.5	18	0.174	30	2115
18	6	STR	6.5	18	0.208	42	2116
18	8	STR	6.5	18	0.228	58	2117
18	10	STR	6.5	18	0.268	71	2118
18	12	STR	6.5	18	0.276	84	2119
PLENUM RATED – CMP, CL2P, FT6 LISTED							
18	2	STR	6.5	30	0.148	19	3114
18	2	SOL	6.5	30	0.136	18	3134
18	3	STR	6.5	29	0.159	26	3126
18	4	STR	6.5	30	0.172	33	3115
18	6	STR	6.5	30	0.212	47	3116
18	8	STR	6.5	30	0.232	61	3117
18	10	STR	6.5	30	0.270	75	3118
18	12	STR	6.5	30	0.277	88	3119

Multi-Conductor Cable – Unshielded (continued)

16 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
16	2	STR	4.1	19	0.172	24	1125
16	4	STR	4.1	19	0.202	44	1126
RISER RATED – CMR, CL2R, FT4 LISTED							
16	2	STR	4.2	19	0.176	27	2121
16	4	STR	4.2	19	0.205	46	2122
PLENUM RATED – CMP, CL2P, FT6 LISTED							
16	2	STR	4.1	32	0.172	28	3121
16	3	STR	4.1	31	0.186	38	3129
16	4	STR	4.1	32	0.202	50	3122

14 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
14	1	SOLID INSULATED GROUND WIRE				18	1131
14	2	STR	2.6	21	0.208	37	1127
RISER RATED – CMR, CL2R, FT4 LISTED							
14	2	STR	2.6	21	0.212	38	2123
14	4	STR	2.6	21	0.248	70	2124
PLENUM RATED – CMP, CL2P, FT6 LISTED							
14	2	STR	2.6	34	0.208	39	3123
14	3	STR	2.6	33	0.220	53	3130
14	4	STR	2.6	34	0.244	70	3124

12 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
12	2	STR	1.6	21	0.264	55	1129
PLENUM RATED – CMP, CL2P, FT6 LISTED							
12	2	STR	1.6	35	0.265	61	3125

Unshielded

Unpaired Conductors

Security

Multi-Conductor Cable – Overall Shielded (OAS)

Construction:

	Non-Plenum	Plenum
Conductors	Bare Copper	
Shield	Al/Mylar with Drain Wire	
Insulation	PP	Low-Smoke PVC
	Conductor Color Code Chart 1 (≤12 Conductors) Conductor Color Code Chart 2 (>12 Conductors)	
Jacket	PVC	Low-Smoke PVC



Features:

– Sunlight Resistant (*Except Plenum*)

22 AWG – SHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
22	2	STR	16.5	33	0.120	13	1202
22	4	STR	16.5	33	0.139	18	1204
22	6	STR	16.5	33	0.166	25	1206
22	8	STR	16.5	33	0.174	30	1207
22	10	STR	16.5	33	0.210	36	1208
22	12	STR	16.5	33	0.210	42	1209
RISER RATED – CMR, CL2R, FT4 LISTED							
22	2	SOL	17.5	11	0.112	11	2201
22	2	STR	16.5	12	0.120	12	2202
22	4	SOL	17.5	15	0.127	15	2203
22	4	STR	16.7	19	0.141	19	2204
22	6	STR	16.5	25	0.162	25	2206
22	8	STR	16.7	31	0.175	31	2207
22	10	STR	16.7	37	0.204	37	2208
22	12	STR	16.7	41	0.210	41	2209
PLENUM RATED – CMP, CL2P, FT6 LISTED							
22	2	SOL	17.0	45	0.108	13	3201
22	2	STR	16.5	45	0.120	14	3202
22	3	STR	16.6	45	0.130	17	3227
22	4	SOL	17.0	45	0.125	19	3203
22	4	STR	16.5	45	0.139	20	3204
22	6	STR	16.6	45	0.166	27	3206
22	8	STR	16.5	45	0.174	33	3207
22	10	STR	16.5	45	0.210	42	3208
22	12	STR	16.5	45	0.216	51	3209

Multi-Conductor Cable – Overall Shielded (OAS) (continued)

20 AWG – SHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
20	3	STR	10.5	37	0.144	21	1227
20	4	STR	10.5	37	0.159	24	1213
PLENUM RATED – CMP, CL2P, FT6 LISTED							
20	2	STR	10.3	48	0.138	19	3212
20	3	STR	10.3	54	0.138	22	3228
20	4	STR	10.3	48	0.159	27	3213

18 AWG – SHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
18	2	STR	6.5	43	0.154	20	1214
18	3	STR	6.5	41	0.161	27	1228
18	4	STR	6.5	43	0.178	32	1215
18	6	STR	6.5	43	0.210	45	1216
18	8	STR	6.5	43	0.230	59	1217
18	10	STR	6.5	43	0.270	63	1218
RISER RATED – CMR, CL2R, FT4 LISTED							
18	2	STR	6.5	21	0.154	21	2214
18	4	STR	6.5	34	0.180	34	2215
18	6	STR	6.5	46	0.214	46	2216
18	8	STR	6.5	59	0.232	59	2217
18	10	STR	6.5	72	0.268	72	2218
18	12	STR	6.5	85	0.281	85	2219
PLENUM RATED – CMP, CL2P, FT6 LISTED							
18	2	STR	6.5	62	0.154	23	3214
18	3	STR	6.5	58	0.161	29	3226
18	4	STR	6.5	62	0.178	33	3215
18	5	STR	6.5	60	0.197	39	3276
18	6	STR	6.5	62	0.216	50	3216
18	8	STR	6.5	62	0.230	61	3217
18	10	STR	6.5	62	0.270	79	3218
18	12	STR	6.5	62	0.283	90	3219

Overall Shielded (OAS)

Unpaired Conductors

Security

Multi-Conductor Cable – Overall Shielded (OAS) (continued)

Construction:

	Non-Plenum	Plenum
Conductors	Bare Copper	
Shield	Al/Mylar with Drain Wire	
Insulation	PP	Low-Smoke PVC
	Conductor Color Code Chart 1 (≤12 Conductors) Conductor Color Code Chart 2 (>12 Conductors)	
Jacket	PVC	Low-Smoke PVC

Features:

– Sunlight Resistant
(Except Plenum)

16 AWG – SHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
16	2	STR	4.1	43	0.178	32	1221
16	3	STR	4.1	43	0.184	41	1229
16	4	STR	4.1	46	0.202	44	1222
RISER RATED – CMR, CL2R, FT4 LISTED							
16	2	STR	4.2	32	0.180	32	2221
16	4	STR	4.2	51	0.209	51	2222
PLENUM RATED – CMP, CL2P, FT6 LISTED							
16	2	STR	4.2	71	0.178	34	3221
16	4	STR	4.2	71	0.202	57	3222

14 AWG – SHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
14	2	STR	2.6	46	0.214	45	1223
RISER RATED – CMR, CL2R, FT4 LISTED							
14	2	STR	2.6	46	0.216	46	2223
14	4	STR	2.6	76	0.252	76	2224
PLENUM RATED – CMP, CL2P, FT6 LISTED							
14	2	STR	2.6	75	0.214	45	3223
14	3	STR	2.6	63	0.222	60	3230
14	4	STR	2.6	75	0.248	76	3224

Zipcord

Construction:

- Bare Copper Conductor
- Flexible PVC Jacket

Features:

- Sunlight Resistant
- One Conductor Ribbed for Polarity



AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2, FT4 LISTED							
22	2	STR	16.5	15	0.074 x 0.164	9	1002
18	2	STR	6.5	20	0.090 x 0.190	18	1004
16	2	STR	4.2	22	0.100 x 0.200	24	1005

Unjacketed Cables

Construction:

- One Bare Copper and One Tinned Copper Conductor
- PVC Insulation

Features:

- One Conductor Ribbed for Polarity



AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
22	2	STR	16.5	14	0.147	10	1051
20	2	STR	10.5	16	0.165	15	1052
18	2	STR	6.1	17	0.183	20	1053

Multi-Pair Cables – Unshielded

Construction:

	Non-Plenum	Plenum
Conductors	Twisted Bare Copper Pairs	
Insulation	PP Conductor Color Code Chart 3	Low-Smoke PVC
Jacket	PVC	Low-Smoke PVC



Features:

– Sunlight Resistant (Except Plenum)

22 AWG – UNSHIELDED

AWG	# PAIRS	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
22	2	SOL	17.0	16	0.160	15	1248 *
22	2	STR	16.5	16	0.178	18	1234
22	3	SOL	17.0	16	0.172	19	1235
22	4	SOL	17.0	16	0.190	26	1237
22	6	SOL	17.0	16	0.226	36	1238
RISER RATED – CMR, CL2R, FT4 LISTED							
22	1	STR	16.5	16	0.114	10	2232
22	2	SOL	17.0	16	0.150	20	2233
22	2	STR	16.5	16	0.140	21	2234 E
22	3	SOL	17.0	16	0.174	20	2235
22	3	STR	17.0	16	0.199	23	2236
22	4	SOL	17.0	16	0.186	26	2237
22	6	SOL	17.0	16	0.238	36	2238
22	6	STR	16.5	16	0.255	40	2239
PLENUM RATED – CMP, CL2P, FT6 LISTED							
22	1	SOL	17.0	24	0.110	10	3231
22	2	STR	16.5	45	0.188	18	3246
22	3	STR	17.0	25	0.196	23	3247
22	4	STR	16.5	45	0.220	30	3248
22	6	STR	16.5	45	0.270	42	3249
22	2	STR	16.5	62	0.190	20	3270 **

18 AWG – UNSHIELDED

AWG	# PAIRS	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
18	2	STR	6.5	17	0.240	40	1245
18	3	STR	6.5	17	0.260	47	1246
18	4	STR	6.5	17	0.290	59	1247

* Color code: Red/Green, Black/Yellow

** 1 Pair Shielded, 1 Pair Unshielded

Multi-Pair Cables – Overall Shielded (OAS)

Construction:

	Non-Plenum	Plenum
Conductors	Twisted Bare Copper Pairs	
Shield	Al/Mylar with Drain Wire	
Insulation	PP Conductor Color Code Chart 3	Low-Smoke PVC
Jacket	PVC	Low-Smoke PVC



Features:

- Sunlight Resistant (*Except Plenum*)

22 AWG – OVERALL SHIELDED (OAS)

AWG	# PAIRS	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
22	2	SOL	17.0	33	0.165	19	1280
22	3	SOL	17.0	33	0.178	26	1282
RISER RATED – CMR, CL2R, FT4 LISTED							
22	2	SOL	17.0	33	0.156	17	2280
22	2	STR	16.5	33	0.176	19	2281
22	3	SOL	17.0	33	0.180	23	2282
22	3	STR	16.5	33	0.202	24	2283
22	6	SOL	17.0	33	0.230	43	2284
PLENUM RATED – CMP, CL2P, FT6 LISTED							
22	2	SOL	17.0	45	0.156	20	3280
22	2	STR	16.5	45	0.176	22	3281
22	3	SOL	17.0	45	0.180	24	3282
22	3	STR	16.5	45	0.202	26	3283
22	6	SOL	17.0	45	0.240	49	3284
22	6	STR	16.5	45	0.272	53	3285

18 AWG – OVERALL SHIELDED (OAS)

AWG	# PAIRS	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
18	3	STR	6.5	40	0.265	51	1290
18	4	STR	6.5	40	0.295	64	1291

Multi-Pair Cables – Each Pair Shielded (EPS)

Construction:

	Non-Plenum	Plenum
Conductors	Twisted Bare Copper Pairs	
Shield	Each Pair Al/Mylar with Drain Wire	
Insulation	PP Conductor Color Code Chart 3	Low-Smoke PVC
Jacket	PVC	Low-Smoke PVC



Features:

– Sunlight Resistant (*Except Plenum*)

22 AWG – EACH PAIR SHIELDED (EPS)

AWG	# PAIRS	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
22	2	SOL	17.0	33	0.170	22	1263
22	2	STR	16.5	33	0.192	23	1264
22	3	STR	16.0	33	0.197	31	1266
RISER RATED – CMR, CL2R, FT4 LISTED							
22	2	SOL	17.0	33	0.172	22	2263
22	2	STR	16.5	33	0.194	23	2264
22	3	SOL	17.0	30	0.181	32	2265
22	3	STR	16.0	33	0.200	36	2266
22	4	SOL	17.0	30	0.200	38	2267
PLENUM RATED – CMP, CL2P, FT6 LISTED							
22	1	STR	16.5	45	0.120	14	3262
22	2	SOL	17.0	45	0.172	24	3263
22	2	STR	16.5	45	0.194	24	3264
22	3	SOL	16.5	45	0.183	33	3265
22	3	STR	16.5	45	0.200	35	3266
22	4	SOL	17.0	45	0.201	39	3267
22	6	SOL	17.0	45	0.244	57	3268

18 AWG – EACH PAIR SHIELDED (EPS)

AWG	# PAIRS	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
18	2	STR	6.4	45	0.252	41	1273
18	3	STR	6.5	45	0.268	56	1274

Control Cables



As Access Control and Building Automation Systems become more intelligent, quality cable becomes an even more important factor. Honeywell Genesis® Series Cable offers control cables that are manufactured to the highest quality standards and are recommended to ensure optimal system performance. Our cables are produced with innovative equipment and technology from our state-of-the-art facility. As one of the leading manufacturers in low voltage cabling, we stand behind our promise to provide products that will exceed your expectations. Honeywell Cable also offers specialized control cables that meet the requirements for Lutron® and Crestron® systems, BACnet and Echelon® LonWorks.

Features:

- Countdown or sequential footage markings
- New labeling system on boxes
- Color coded boxes
- Zone and room markings

Article 725/800*:

Class 1, Class 2 and Class 3 remote-control, signaling and power limited circuits that are not an integral part of a device or appliance.

The scope of this article may include systems such as burglar alarm, access control, sound, nurse call, intercom circuits, some computer network systems, some control circuits for lighting dimmer systems, and some low voltage control circuits that originate from listed computer equipment.

**See Article 800 for more information.*

*Lutron is a registered trademark of Lutron Electronics Co., Inc.
Crestron is a registered trademark of Crestron Electronics, Inc.*

PROFUSION® Access Control Cables

Construction:

- PROFUSION® Unjacketed Composite Construction
- Reduces Cold Weather Cracking and Cable Separation
- Dramatically Reduces Installation Time



PROFUSION® Access Control Cables

Application	Sub-Application	Description	GENERAL PURPOSE CM LISTED	PLENUM RATED CMP LISTED
Access Point (Standard)	Door Strike	18/4 STR	1198	3195
	Card Reader	22/6 STR OAS		
	Door Contact	22/2 STR		
	Request-to-Exit	22/4 STR		
Access Point (Noise Sensitive)	Door Strike	18/4 STR OAS	1298	3295
	Card Reader	22/6 STR OAS		
	Door Contact	22/2 STR OAS		
	Request-to-Exit	22/4 STR OAS		

Crestron® Control Cables

Honeywell Genesis® Series Cable offers specialized control cables for Crestron Systems. These bundled cables facilitate fast and easy wiring for Crestron AV distribution switches, room solution boxes, intercoms and touch panels. The constructions with RGB cable allow for distribution of CATV, satellite, broadband, or modulated video.



Consult factory for packaging options.

CONTROL CABLES FOR CRESTRON SYSTEMS

COMPARABLE TO	DESCRIPTION	JACKET COLOR	NOM. O.D. (in)	AVG. WT. PER MFT (lbs)	PART #
CRESCAT-NP					
Control Cable	22/1pr Low Cap + 18/2	Teal/Red Stripe	0.485	78	1270
Data Cable	Cat 5e 350 MHz				
CRESCAT-D-NP					
Control Cable	22/1pr Low Cap + 18/2	Teal/Black Stripe	0.530	105	1278
Data Cable	2 x Cat 5e 350 MHz				
CRESCAT-Q-NP					
Control Cable	22/1pr Low Cap + 18/2	Teal/White Stripe	0.680	145	1279
Data Cable	4 x Cat 5e 350 MHz				
CRESCAT-DC-NP					
Control Cable	22/1pr Low Cap + 18/2	Teal/Orange Stripe	0.800	194	1272
Data Cable	2 x Cat 5e 350 MHz				
Coax Cable	2 x RG6				

DESIGNED FOR USE WITH CRESTRON TOUCH PANELS, KEYPADS, EXPANSION MODULES, TUNERS AND MORE

CRESNET-NP					
Control Cable	22/1pr Low Cap + 18/2 Power	Blue/Yellow Stripe	0.280	33	1244

DESIGNED TO PROVIDE A SIGNAL-CABLE SOLUTIONS FOR WIRING OF MEDIA SYSTEMS

CRESCAT-IM-P					
Control Cable	24/4pr Cat 5e 100 MHz CMP	Blue	0.200	27	5088

DIMMER CONTROL CABLE

Control Cable	22/1pr	Gray	0.120	13	1202
---------------	--------	------	-------	----	-------------

Lutron® Control Cables

Honeywell Genesis® Series Cable offers specialized lighting control cables for Lutron Systems. These cables are specifically designed to meet the Lutron cable standards.

Consult factory for packaging options.



STYLE	CONSTRUCTION	SHIELD	JACKET COLOR	PART #
GENERAL PURPOSE – CM LISTED				
HomeWorks® Dimmer & Switch	18/2 STR BC	Al/Mylar TC Drain	Gray	1214
HomeWorks Dimmer & Switch	18/4 STR BC	Al/Mylar TC Drain	Gray	1215
Vareo® Dimmer & Switch	22/2 STR 7/30 BC	Al/Mylar TC Drain	Gray	1202
Keypad Data/GRAFIK Eye® 3000	22/1pr Low Cap Data 18/2 Power	Al/Mylar TC Drain	Blue/Yellow Stripe	1244
GRAFIK Eye 4000/6000	22/1pr Low Cap Data 12/2 Power 18/1 Ground	Al/Mylar TC Drain	Blue	1260
Sivoia® Shades	18/4 BC 16/2 BC 18/1 BC	Al/Mylar TC Drain None None	Blue/Red Stripe	1287
PLENUM RATED – CMP LISTED				
HomeWorks Dimmer & Switch	18/2 STR 16/30 BC	Al/Mylar TC Drain	White	3214
HomeWorks Dimmer & Switch	18/4 STR 16/30 BC	Al/Mylar TC Drain	White	3215
Vareo Dimmer & Switch	22/2 STR 7/30 BC	Al/Mylar TC Drain	White	3202

Home Automation Cables

Construction:

- Stranded Bare Copper Conductors
- Unshielded Pair for Power
- Shielded Pair for Data
- Polypropylene Insulation
- PVC Jacket

Features:

- Sunlight Resistant



POWER	DATA	JACKET COLOR	AVG. WT. PER MFT (lbs)	PART #
GENERAL PURPOSE – CM, CL2 LISTED				
18 AWG/ 1PR BC Unshielded	22 AWG/ 1PR BC Shielded	Green	30	1243

BACnet® Cables



Construction:

- Stranded Bare Copper or Tinned Copper Conductor Pairs
- FEP Insulation
- Aluminum/Mylar Shield with Drain Wire
- Low-Smoke Plenum PVC Jacket
- Consult factory for available colors



AWG	# PAIRS	CONDUCTOR MATERIAL	IMPEDANCE	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in)	AVG. WT. PER MFT (lbs)	PART #
PLENUM RATED - CMP, CL2P, FT6 LISTED								
22	1	TC	100	16.5	14.5	0.185	20	3251
24	1	BC	115	24	12.5	0.164	15	3319
22	1	BC	115	15	12.5	0.165	14	3320
18	1	BC	115	6.5	12.0	0.254	31	3322
24	1.5	BC	115	24	12.5	0.185	21	3323
22	1.5	BC	115	15	12.5	0.173	17	3324
22	2	BC	115	15	12.5	0.192	21	3328

Echelon® LonWORKS® Control Cables

Construction:

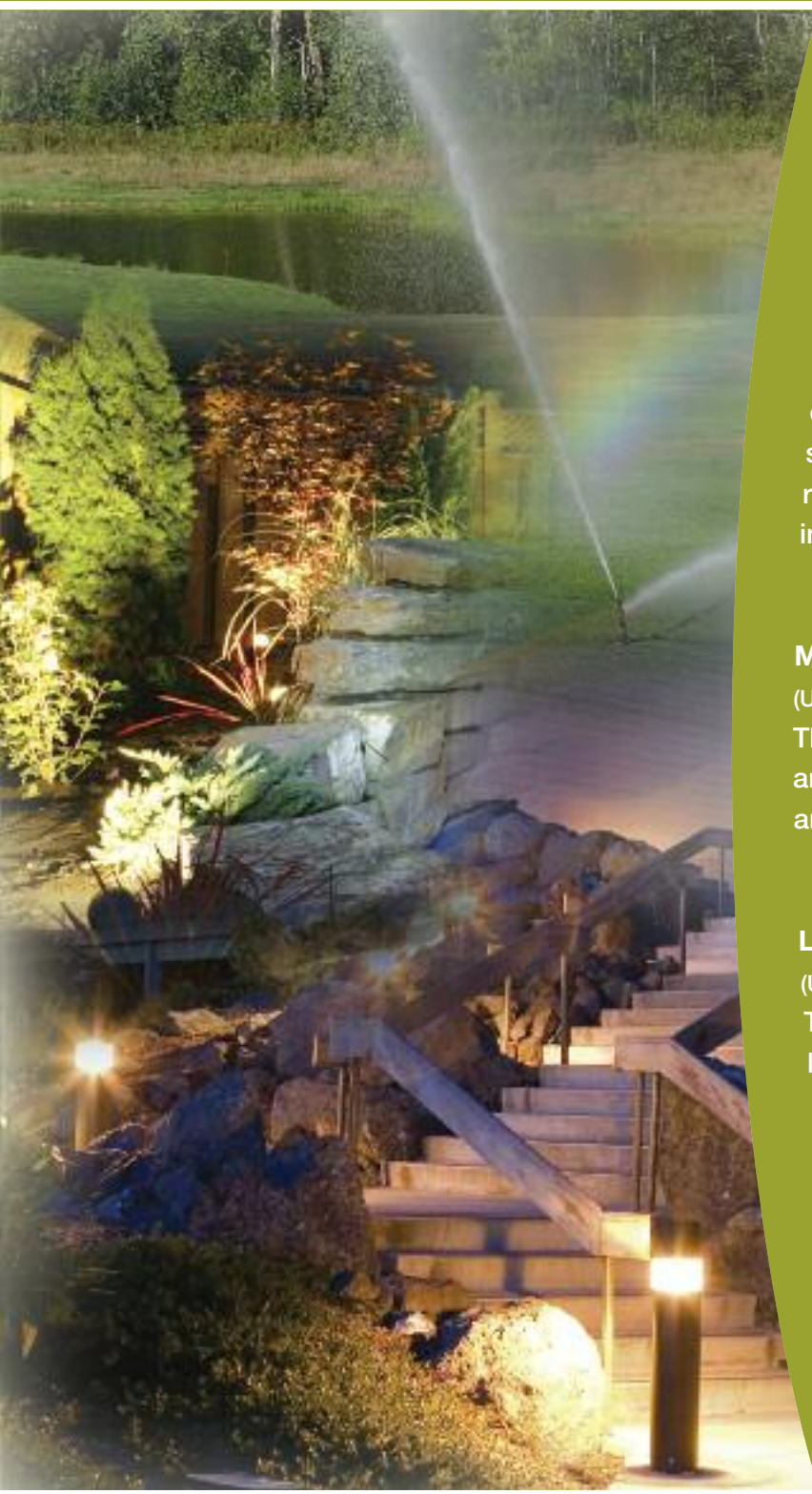
- Stranded Bare Copper Conductor Pairs
- Unshielded or Al/Mylar Overall Shielded



AWG	# PAIRS	SHIELD	IMPEDANCE (Ohms)	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in)	AVG. WT. PER MFT (lbs)	PART #
GENERAL PURPOSE - CM, CL2 LISTED								
22	1	Unshielded	100	16.5	15	0.130	11	1061
22	2	Unshielded	100	16.5	15	0.190	17	1062
22	1	OAS	100	16.5	15	0.204	14	1063
PLENUM RATED - CMP, CL2P, FT6 LISTED								
22	1	Unshielded	100	16.5	15	0.124	11	3252
22	2	Unshielded	100	16.5	15	0.196	19	3253
22	1	OAS	100	16.5	15	0.192	19	3254
22	2	OAS	100	16.5	15	0.265	30	3255

Echelon and LonWORKS are trademarks of Echelon Corporation registered in the United States and other countries.

Irrigation, Tracer & Lighting Cables



Single Conductor Sprinkler and Tracer Wire:

(UL Listed Sprinkler and Tracer Wire 600V)

These cables are designed for underground applications where harsh conditions may be encountered. One of the common uses is for tracer wire. Typically, yellow tracer wire is used to mark gas pipes, blue to mark water pipes, orange to mark fiber optic cables and green for sewage lines. Another use is for connecting the remote control valves to an irrigation controller in a golf course sprinkler system.

Multi Conductor Sprinkler Cable:

(UL Listed Direct Burial Solid Bare Copper 30V)

These underground multi conductor cables are used to control the valves in residential and commercial irrigation systems.

Landscape Lighting Cable:

(UL Listed Underground Low Energy Circuit Cable 150V)

These cables are used for low-voltage direct burial lighting applications.

Irrigation & Tracer Cables

Construction:

- Bare Copper Conductor
- Polyethylene Insulation



AWG	# COND	STR/SOL	AVG. WT. PER MFT (lbs)	PART #
DIRECT BURIAL - 600V RATED				
18	1	SOL	11	1301
14	1	SOL	20	1303
12	1	SOL	28	1304

Underground Lighting Cables

Construction:

- Stranded Bare Copper Conductors
- Heavy Wall, Integral Zip Construction
- PVC Jacket

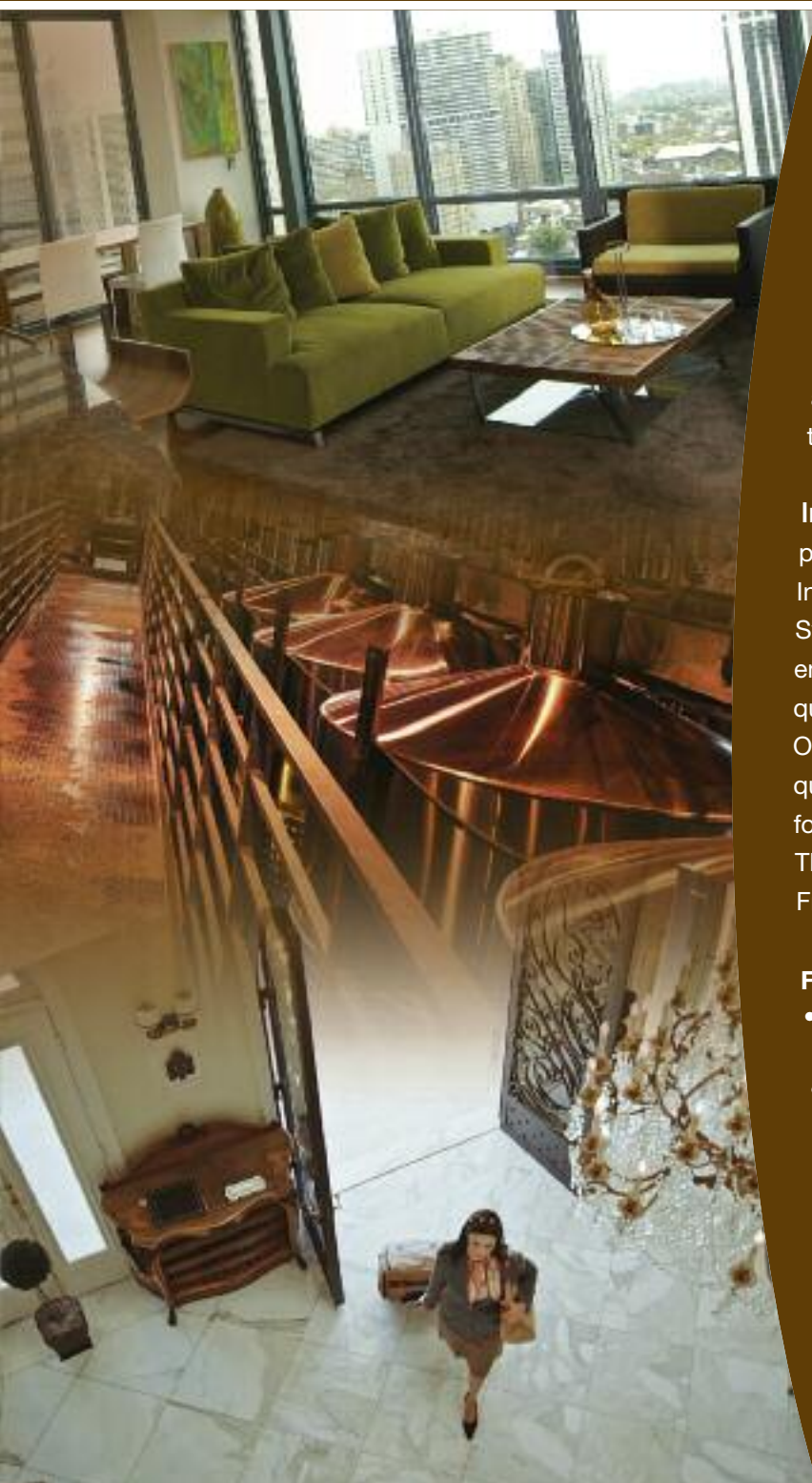


Features:

- Sunlight Resistant

AWG	# COND	NOM. O.D. (in)	AVG. WT. PER MFT (lbs)	PART #
DIRECT BURIAL - 150V RATED				
14	2	0.165 x 0.345	50	1021
12	2	0.190 x 0.390	82	1019
10	2	0.220 x 0.440	120	1018
8	2	0.295 x 0.590	225	1017

HVAC & Thermostat Cables



Creating Comfort...As the world's leading thermostat manufacturer, Honeywell knows about home comfort systems. When a homeowner seeks a dependable HVAC system, the link between system components is probably not on their minds. It is up to you to find a manufacturer that has the most enhanced and efficient cabling available. The flawless connection of Honeywell's thermostat and mini split cables throughout the home creates the reliable comfort that homeowners value.

Improving Control...Your customers trust you to protect their most valuable asset – their business. Installing an Access Control and Building Automation System provides them with peace of mind. As these energy and security systems become more intelligent, quality cable becomes an even more important factor. Our control cables are manufactured to the highest quality standards and are recommended and approved for Echelon® LONWORKS®, BACnet® (conforms to ANSI/TIA/EIA-485 specifications) and Tridium's Niagara^{AX} Framework® systems.

Features:

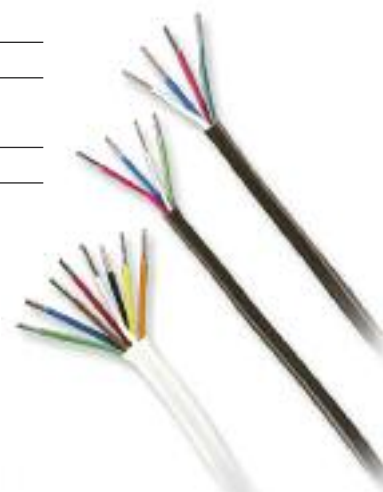
- Full range of thermostat and commercial control cables
- Polypropylene insulation provides exceptional dielectric and strips easily and cleanly, saving time
- Available for General Purpose (CL2) or Plenum (CL2P) Applications
- Packaging options: Spools, Speedbags™ and Pull Boxes
- 100% guaranteed

Tridium and Niagara^{AX} Framework are registered trademarks of Tridium, Inc.

Thermostat Cables

Construction:

	Non-Plenum	Plenum
Conductors	Solid Bare Copper	
Insulation	PP Conductor Color Code Chart 6	Low-Smoke PVC
Jacket	PVC	Low-Smoke PVC



Features:

- Sunlight Resistant (*Except Plenum*)
- Braided Ripcord

20 AWG

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. PER (lbs./Mft.)	PART #
GENERAL PURPOSE – CL2 LISTED							
20	2	SOL	10.3	17	0.118	11	4701
20	3	SOL	10.3	17	0.124	14	4702
20	4	SOL	10.3	17	0.136	18	4703
20	5	SOL	10.3	17	0.148	20	4704
20	6	SOL	10.5	17	0.161	24	4705
20	7	SOL	10.5	17	0.161	27	4706
20	8	SOL	10.5	17	0.174	31	4707
20	10	SOL	10.5	17	0.204	39	4709



Thermostat Cables (continued)

18 AWG

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. PER (lbs./Mft.)	PART #
GENERAL PURPOSE – CL2 LISTED							
18	2	SOL	6.5	19	0.136	16	4710
18	3	SOL	6.5	19	0.144	21	4711
18	4	SOL	6.5	19	0.157	26	4712
18	5	SOL	6.5	19	0.172	32	4713
18	6	SOL	6.5	19	0.188	38	4714
18	7	SOL	6.5	19	0.188	44	4715
18	8	SOL	6.5	19	0.204	50	4716
18	9	SOL	6.5	19	0.220	55	4717
18	10	SOL	6.5	19	0.240	61	4718
18	12	SOL	6.5	19	0.248	74	4719
PLENUM RATED – CMP, CL2P, FT6 LISTED							
18	2	SOL	6.5	28	0.136	17	4760
18	3	SOL	6.5	28	0.144	23	4761
18	4	SOL	6.5	28	0.157	29	4762
18	5	SOL	6.5	28	0.172	35	4763
18	6	SOL	6.5	28	0.188	42	4764
18	7	SOL	6.5	28	0.188	47	4765
18	8	SOL	6.5	28	0.204	54	4766
18	9	SOL	6.5	28	0.220	60	4767
18	10	SOL	6.5	28	0.240	67	4768



Mini Split Cables

Power and Control for Mini Split Systems

Construction:

- Stranded Bare Copper Conductors
- Polypropylene Insulation (General Purpose)
- PVC with Nylon Insulation (THHN)
- PVC Jacket



Features:

- Sunlight Resistant

AWG	# CONDUCTORS	SHIELD	NOM. O.D. (in)	PART #
GENERAL PURPOSE - CM, CL2 LISTED				
18	2	OAS	0.154	1214
18	4	OAS	0.178	1215
18	2	Unshielded	0.172	1119
16	2	OAS	0.178	1221
DIRECT BURIAL - 600V, THHN LISTED				
14	3	Unshielded	0.365	1069
14	4	Unshielded	0.365	1070
14	5	Unshielded	0.425	1071
14	7	Unshielded	0.460	1073

THHN Cables - Single Conductor

Construction:

- Stranded Bare Copper Conductors
- Nylon Jacket with PVC Insulation



Features:

- Gas & Oil Resistant

AWG	# CONDUCTORS	NOM. O.D. (in)	PART #
GENERAL PURPOSE - 600V, THHN/THWN LISTED			
14	1	0.110	1080
12	1	0.130	1081
10	1	0.165	1082

Fire Alarm Cables



Genesis® Series Fire Alarm Cables are manufactured in a wide variety of gauge sizes, shielding configurations and jacketing materials including plenum, riser and general purpose. Honeywell Cable also manufactures fire alarm cables that meet the requirements of New York City Local Law 5 and New York State Toxicity requirements.

Features:

- Countdown or sequential footage markings
- New labeling system on boxes
- Color coded boxes
- Zone and room markings

Article 760:

The scope of this article covers the installation of wiring and equipment of fire alarm systems including all circuits controlled and powered by the fire alarm system. These include fire detection and alarm notification, guard's tour, sprinkler waterflow and sprinkler supervisory systems. Circuits controlled and powered by the fire alarm system include circuits for the control of building systems safety functions, elevator capture, elevator shutdown, door release, smoke doors and damper control, fire doors and damper control and fan shutdown. Applicable only where these circuits are powered by and controlled by the fire alarm system.

Fire Power Limited Cable:

Type FPL, FPLR, FPLP

Fire Alarm Cables – Unshielded

Construction:

	Non-Plenum	Plenum	Direct Burial
Conductors	Bare Copper		
Insulation	PP	Low-Smoke PVC	SRPVC
	Conductor Color Code Chart 4		
Jacket	PVC	Low-Smoke PVC	PVC



Features:

– Sunlight Resistant (Except Plenum)

22 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – UL, FPL, CL2 LISTED							
22	4	SOL	17.0	15	0.122	15	4101
22	6	SOL	17.0	15	0.144	19	4102
22	8	SOL	17.0	15	0.156	24	4103
22	10	SOL	17.5	15	0.182	31	4104
22	12	SOL	17.0	15	0.188	37	4105
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
22	4	SOL	17.0	15	0.122	15	4301
PLENUM RATED – UL, FPLP, CL2P, C(UL), FT6 LISTED							
22	6	SOL	17.0	22	0.144	21	4502
22	12	SOL	17.0	22	0.188	38	4505

18 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – UL, FPL, CL2 LISTED							
18	2	SOL	6.5	20	0.134	17	4106
18	4	SOL	6.5	20	0.170	29	4107
18	6	SOL	6.5	20	0.192	41	4108
18	8	SOL	6.5	20	0.208	52	4109
18	10	SOL	6.5	20	0.244	68	4110
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
18	2	SOL	6.5	19	0.138	17	4306
18	4	SOL	6.5	19	0.174	34	4307
18	6	SOL	6.5	19	0.187	44	4308
18	8	SOL	6.5	19	0.208	54	4309
18	10	SOL	6.5	19	0.244	67	4310
PLENUM RATED – UL, FPLP, CL2P, C(UL), FT6 LISTED							
18	2	SOL	6.5	24	0.134	19	4506
18	4	SOL	6.5	24	0.156	32	4507
18	6	SOL	6.5	24	0.192	45	4508
18	8	SOL	6.5	28	0.208	52	4509

Unshielded

Conventional

Fire Alarm

Fire Alarm Cables – Unshielded (continued)

16 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – UL, FPL, CL2 LISTED							
16	2	SOL	4.2	20	0.154	24	4111
16	4	SOL	4.2	20	0.180	43	4112
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
16	2	SOL	4.9	20	0.160	24	4311
16	4	SOL	4.2	20	0.184	43	4312
PLENUM RATED – UL, FPLP, CL2P, C(UL), FT6 LISTED							
16	2	SOL	4.2	27	0.154	26	4511
16	4	SOL	4.1	27	0.180	47	4512

14 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – UL, FPL, CL2 LISTED							
14	2	SOL	2.6	22	0.182	35	4113
14	4	SOL	2.6	22	0.214	64	4114
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
14	2	SOL	2.5	22	0.184	37	4313
14	4	SOL	2.5	22	0.214	65	4314
PLENUM RATED – UL, FPLP, CL2P, C(UL) FT6 LISTED							
14	2	SOL	2.5	27	0.182	38	4513
14	4	SOL	2.5	27	0.214	68	4514

12 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – UL, FPL, CL2 LISTED							
12	2	SOL	1.6	22	0.214	52	4115
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
12	2	SOL	2.5	22	0.214	55	4315
12	2	STR	1.6	25	0.264	54	4320
PLENUM RATED – UL, FPLP, CL2P, C(UL), FT6 LISTED							
12	2	SOL	1.6	30	0.214	55	4515

Unshielded

Conventional

Fire Alarm

Fire Alarm Cables – Overall Shielded (OAS)

Construction:

	Non-Plenum	Plenum
Conductors	Bare Copper	
Shield	Al/Mylar with Drain Wire	
Insulation	PP Conductor Color Code Chart 4	Low-Smoke PVC
Jacket	PVC	Low-Smoke PVC



Features:

– Sunlight Resistant (Except Plenum)

22 AWG – SHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – UL, FPL, CL2 LISTED							
22	4	SOL	17.0	31	0.124	17	4201
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
22	4	SOL	17.5	31	0.126	16	4401
PLENUM RATED – UL, FPLP, CL2P, C(UL), FT6 LISTED							
22	4	SOL	17.0	53	0.126	18	4601

18 AWG – SHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – UL, FPL, CL2 LISTED							
18	2	SOL	6.5	42	0.138	20	4202
18	4	SOL	6.5	42	0.160	31	4203
18	6	SOL	6.5	42	0.196	50	4204
18	8	SOL	6.5	42	0.212	57	4205
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
18	2	SOL	6.5	42	0.138	21	4402
18	4	SOL	6.5	42	0.163	32	4403
18	6	SOL	6.5	42	0.196	46	4404
18	8	SOL	6.5	42	0.212	56	4405
PLENUM RATED – UL, FPLP, CL2P, C(UL), FT6 LISTED							
18	2	SOL	6.5	68	0.140	22	4602
18	4	SOL	6.5	68	0.168	35	4603
18	6	SOL	6.5	68	0.196	50	4604

Fire Alarm Cables – Overall Shielded (OAS) (continued)

16 AWG – SHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – UL, FPL, CL2 LISTED							
16	2	SOL	4.1	46	0.158	29	4206
16	4	SOL	4.1	46	0.186	49	4207
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
16	2	SOL	4.1	46	0.158	31	4406
16	4	SOL	4.1	46	0.190	49	4407
PLENUM RATED – UL, FPLP, CL2P, C(UL), FT4 LISTED							
16	2	SOL	4.1	77	0.158	35	4606
16	4	SOL	4.1	77	0.186	52	4607

14 AWG – SHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – UL, FPL, CL2 LISTED							
14	2	SOL	2.5	52	0.186	40	4208
14	4	SOL	2.5	52	0.218	67	4209
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
14	2	SOL	2.5	52	0.192	42	4408
14	4	SOL	2.5	52	0.218	72	4409
PLENUM RATED – UL, FPLP, CL2P, C(UL), FT6 LISTED							
14	2	SOL	2.5	86	0.186	44	4608
14	4	SOL	2.5	86	0.218	75	4609

12 AWG – SHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – UL, FPL, CL2 LISTED							
12	2	SOL	1.6	56	0.218	59	4210
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
12	2	SOL	1.7	56	0.218	60	4410
PLENUM RATED – UL, FPLP, CL2P, C(UL), FT6 LISTED							
12	2	SOL	1.6	96	0.218	63	4610

Overall Shielded (OAS)

Conventional

Fire Alarm

Fire Alarm Cables – Direct Burial

18 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
DIRECT BURIAL – UL, FPL LISTED							
18	2	STR	6.5	19	0.260	37	4156
18	4	STR	6.5	19	0.295	59	4157
18	6	STR	6.5	19	0.345	76	4158
18	8	STR	6.5	19	0.375	95	4159

16 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
DIRECT BURIAL – UL, FPL, CL2 LISTED							
16	2	STR	3.90	21	0.282	45	4151

14 AWG – UNSHIELDED

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
DIRECT BURIAL – UL, FPL, CL2 LISTED							
14	2	STR	2.5	23	0.310	60	4153
14	4	STR	2.5	23	0.355	102	4154

Alarm Cables – Zipcord

Construction:

- Solid Bare Copper Conductors
- PVC Insulation
- Parallel Zip Construction

Features:

- Sunlight Resistant
- One Conductor Ribbed for Polarity



AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – UL, FPL, C(UL), CMG LISTED							
18	2	SOL	6.4	17	0.105 x 0.217	18	4002
14	2	SOL	2.5	17	0.129 x 0.273	39	4004
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
18	2	SOL	6.5	17	0.088 x 0.196	18	4422
16	2	SOL	4.1	17	0.094 x 0.200	26	4423
14	2	SOL	2.5	17	0.107 x 0.220	37	4424
12	2	SOL	1.6	17	0.124 x 0.250	52	4425

Fire Alarm Cables – Mid-Capacitance (Unshielded)

Construction:

- Solid Bare Copper Conductors
- Polypropylene Insulation
- PVC Jacket
- Conductor Color Code Chart 4

Features:

- Sunlight Resistant



AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
18	2	SOL	6.3	15	0.144	19	4431
16	2	SOL	4.1	17	0.170	26	4432

Fire Alarm Cables – Mid-Capacitance (Shielded)

Construction:

- Solid Bare Copper Conductors
- Aluminum/Mylar Overall Shield with Drain Wire
- Polypropylene Insulation
- PVC Jacket
- Conductor Color Code Chart 4

Features:

- Sunlight Resistant



AWG	# COND	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
RISER RATED – UL, FPLR, CL2R, C(UL), FT4 LISTED							
18	2	SOL	6.3	34	0.148	21	4441
16	2	SOL	4.1	38	0.187	32	4442
12	2	SOL	1.6	48	0.260	48	4444

Fire Alarm Cables – NYC Local Law 5 (Unshielded)

Construction:

- Solid Bare Copper Conductors
- Fluoropolymer Insulation and Jacket
- Conductor Color Code Chart 4



AWG	# PAIRS	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
UL, NYC LL5, FPLP LISTED							
18	1	SOL	6.3	45	0.198	26	5500
18	2	SOL	6.3	45	0.312	47	5501
16	1	SOL	4.1	55	0.214	36	5502
16	2	SOL	4.1	55	0.345	62	5503
14	1	SOL	2.5	60	0.244	47	5504
14	2	SOL	2.5	60	0.374	87	5506
12	1	SOL	1.6	65	0.272	67	5505

Fire Alarm Cables – NYC Local Law 5 (Shielded)

Construction:

- Solid Bare Copper Conductors
- Aluminum/Mylar Overall Shield with Drain Wire
- Fluoropolymer Insulation and Jacket
- Conductor Color Code Chart 4



AWG	# PAIRS	STR/SOL	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
UL, NYC LL5, FPLP LISTED							
18	1	SOL	6.3	80	0.202	28	5550
18	2	SOL	6.3	80	0.316	51	5551
16	1	SOL	4.1	100	0.215	42	5552
16	2	SOL	4.1	100	0.343	71	5553
14	1	SOL	2.5	110	0.243	51	5554
14	2	SOL	2.5	110	0.398	93	5555
12	1	SOL	1.6	130	0.276	75	5556

Home Theater Cables



Your complete solution for high-end audio transmission, stereo, professional audio systems and home theater systems.

Home Theater Sound Jacketed (Shielded):

- Twisted Bare Copper Conductors
- Polypropylene Insulation
- 100% Foil Shield
- Countdown or Sequential Footage Markings

Home Theater Sound Jacketed (Unshielded):

- Twisted Bare Copper Conductors
- Polypropylene Insulation
- Countdown or Sequential Footage Markings

Direct Burial Audio Cable:

- Oxygen Free Copper (pure transmission area)
- High Strand Count (flexibility and more surface area)
- Burial Applications

AUDACIOUS® Audio Cable Oxygen Free Copper High Strand Count:

- WaveFLEX® Jacket (easy strip)
- Oxygen Free Copper (pure transmission area)
- High Strand Count (flexibility and more surface area)
- Legend Markings (channel, rooms and zones)
- Countdown or Sequential Footage Markings

Crystal Series Audio Cable Oxygen Free Copper High Strand Count:

- Extra Flexible Jacket Material
- Extruded Jacket (abrasion resistant)
- Easy Strip Construction
- Oxygen Free Copper (pure transmission area)
- High Strand Count (flexibility and more surface area)
- Polypropylene Insulation (installation friendly)
- Legend Markings (channel, rooms and zones)

RGB & Component Video

Construction:

- 100% Foil Shield
- 95% Tinned Copper Braid Shield
- Gas Injected Dielectric
- 81% VP
- Super Flexible TPE Jacket

Features:

- Ripcord
- Sweep Test Verified



STYLE	COAXIAL JACKET COLORS	SHIELD	IMPEDANCE (Ohms/Mft.)	NOM. O.D. (pF/ft.)	NOM. CAP. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM LISTED							
3 x Mini-Coax	Red, Green, Blue	95% TC & 100% Foil	75	0.375	17	90	5019
5 x Mini-Coax	Red, Green, Blue, Yellow, White	95% TC & 100% Foil	75	0.475	17	135	5029
6 x Mini-Coax	Red, Green, Blue, Yellow, White, Gray	95% TC & 100% Foil	75	0.540	17	145	5099
5 x Mini-Coax + Cat 5e	Red, Green, Blue, Yellow, White	95% TC & 100% Foil	75	0.620	17	150	5098

Digital & HDTV Coaxial Cables

Construction:

- Solid Bare Copper Conductor
- 100% Aluminum Foil Shield
- 95% Tinned Copper Braid Shield
- Transparent PVC Jacket (PN: 5035)
- Flexible TPE Jacket (PN: 5363)

Features:

- Sunlight Resistant (*general purpose*)
- Sweep Tested to 3 GHz



STYLE	AWG	SHIELD	NOM. VP	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
DWELLINGS – CATVX, CMX, CL2X LISTED							
RG59/U	20 BC	95% TC + 100% FOIL	81	16.2	0.245	29	5035

AUDACIOUS® WaveFLEX® Home Theater Cables

Construction:

- Stranded Oxygen-Free Bare Copper Conductors
- WaveFLEX Flexible PVC Jacket

Features:

- Sunlight Resistant
- Ripcord



AWG	# COND	STR COUNT	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
RISER RATED - UL, CMR, CL2R, FT4 LISTED							
16	2	65/34	4.1	22	0.262	37	5473
16	4	65/34	4.1	22	0.294	58	5474
14	2	105/34	2.6	25	0.306	50	5475
14	4	105/34	2.6	25	0.347	86	5476

Crystal Series Home Theater Cables

Construction:

- Stranded Oxygen-Free Bare Copper Conductors
- Flexible Polypropylene Insulation
- Flexible TPE Jacket

Features:

- Sunlight Resistant



AWG	# COND	STR COUNT	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE - CM, CL3 LISTED							
16	2	65/34	4.1	19	0.225	45	5290
16	4	65/34	4.1	19	0.275	65	5291
14	2	105/34	2.6	19	0.275	62	5292
14	4	105/34	2.6	19	0.335	105	5293
12	2	168/34	1.6	22	0.320	93	5294

Combination Audio Cables

Construction:

- 4 Conductor Speaker Cable + 24/4pr Cat 5e
- PVC Jackets

Features:

- Sunlight Resistant



CONTROL	SPEAKER	STR COUNT	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL3 LISTED							
24/4pr Cat 5e	14/4 STR OFBC	105/34	2.6	16	0.665 x 0.325	89	5279
24/4pr Cat 5e	16/4 STR OFBC	65/34	4.2	20	0.218 x 0.428	66	5280
RISER RATED – CMR, CL2R, FT4 LISTED							
24/2pr Cat 5e	16/2 STR BC	26/30	4.2	20	0.170 x 0.360	38	5281
PLENUM RATED - CMP, CL2P, FT6							
24/2pr Cat 5e	16/2 STR BC	26/30	4.2	32	0.170 x 0.360	41	5381



Home Theater Cables – Unshielded

Construction:

- Stranded Bare Copper Conductors
- Polypropylene Insulation
- Flexible PVC Jacket
- Conductor Color Code Chart 1

Features:

- Sunlight Resistant



AWG	# COND	STR COUNT	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
16	2	26/30	4.1	22	0.192	27	5250
16	4	26/30	4.1	22	0.224	47	5251
14	2	41/30	2.6	25	0.224	38	5252
14	4	41/30	2.6	25	0.265	68	5253
12	2	65/30	1.6	28	0.264	57	5254
12	4	65/30	1.6	28	0.312	107	5255

Home Theater Cables – Shielded

Construction:

- Stranded Bare Copper Conductors
- Overall Aluminum/Mylar Shield
- Polypropylene Insulation
- Super Flexible PVC Jacket
- Conductor Color Code Chart 1

Features:

- Sunlight Resistant



AWG	# COND	STR COUNT	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
16	2	26/30	4.2	38	0.196	33	5650
14	2	41/30	2.6	43	0.228	43	5651

Direct Burial Audio Cables

Construction:

- Stranded Oxygen-Free Bare Copper Conductors
- Semi-Rigid PVC Insulation
- PVC Jacket

Features:

- Sunlight Resistant



AWG	# COND	STR COUNT	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
DIRECT BURIAL – CL3, CM LISTED							
16	2	65/34	3.9	27	0.275	42	5283
16	4	65/34	4.0	21	0.350	67	5284
14	2	105/34	1.9	32	0.320	65	5285
14	4	105/34	2.5	32	0.415	110	5286



Heavy Duty Home Theater Zipcord

Construction:

- Stranded Oxygen-Free Bare Copper Conductors
- Super-Flexible PVC Insulation

Features:

- One Conductor Ribbed for Polarity



AWG	# COND	STR COUNT	DC RESISTANCE (Ohms/Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED							
16	2	65/34	4.2	18	0.150 x 0.305	30	5400
14	2	105/34	2.6	20	0.165 x 0.335	40	5401

Zipcord

Construction:

- Stranded Bare Copper Conductors
- Flexible PVC Insulation
- Parallel Zip Construction

Features:

- Sunlight Resistant
- One Conductor Ribbed for Polarity



AWG	# COND	STR COUNT	DC RESISTANCE (Ohms/Mft.)	CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	AVG. WT. PART #
GENERAL PURPOSE – CM, CL2 LISTED							
22	2	7/30	17.0	14	0.074 x 0.164	9	1002
18	2	19/.0092	6.5	17	0.090 x 0.190	18	1004
16	2	26/30	4.2	18	0.100 x 0.200	24	1005

Multimedia Cables

Honeywell Cable offers multimedia cables to support voice, video and data in a single cable. Multimedia cables are composite constructions designed to minimize the number of cable pulls, reduce installation cost and shorten the time required for the pre-wiring of residential systems.

Features:

- Multiple constructions available
- Cables are performance tested after bundling to assure quality
- Reduces labor time and installation cost
- UL/ETL listed and tested
- 100% Guaranteed
- Available in both jacketed and Profusion® (non-jacketed) constructions
- Zone and room markings available on jacketed multimedia cables

Article 725:

Class 1, Class 2 and Class 3 remote-control, signaling and power limited circuits that are not an integral part of a device or appliance.

The scope of this article may include systems such as burglar alarm, access control, sound, nurse call, intercom circuits, some computer network systems, some control circuits for lighting dimmer systems, and some low voltage control circuits that originate from listed computer equipment.

General Purpose Cable:

Type CM, CL2, CL3

PROFUSION® Multimedia Cables

Construction:

PROFUSION® Unjacketed Composite Construction

Various Combinations of

- Cat 5e
- RG6/U
- Optical Fiber

Features:

- Cat 5e Cables Tested to 350 MHz
- Coaxial Cables Tested to 3 GHz
- Custom Constructions Available (consult factory)



# CATEGORY	CATEGORY	# COAX	COAX	# FIBER	FIBER	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED								
2	5e	2	RG6/U CCS QUAD	None	N/A	0.600	116	5060
2	6	2	RG6/U BC QUAD	2	FDDI	0.700	132	5956
2	6	2	RG6/U BC QUAD	None	N/A	0.700	150	5957

Jacketed Multimedia Cables

Construction:

Cabled Construction

Various Combinations of

- Cat 5e
- RG6/U
- Optical Fiber

Features:

- Cat 5e Cables Tested to 350 MHz
- Coaxial Cables Tested to 3 GHz



# CATEGORY	CATEGORY	# COAX	COAX	# FIBER	FIBER	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED								
2	5e	2	RG6/U CCS QUAD	None	N/A	0.650	161	5050
2	5e	2	RG6/U CCS QUAD	2	FDDI	0.720	177	5051

Genesis® Series Catlink Dual Zip

Construction:

- Parallel Zip Construction
- Cat 5e + Dual or Quad Shielded RG6/U

Features:

- Coaxial Cables Tested to 3 GHz



CATEGORY	COAX	NOM. O.D. (in.)	AVG. WT. PER (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED				
24/4PR CAT 5e	RG6/U CCS QUAD	0.298 x 0.523	60	5066
24/4PR CAT 5e	RG6/U CCS DUAL 60%	0.275 x 0.500	53	5067



Network & IP Cables



Honeywell's Genesis® Series networking and IP cables are the main component of a communications system and a key determinant to its performance. Genesis Series Cable strictly adheres to quality manufacturing and exceeding the requirements set forth by TIA/EIA category requirements.

Features:

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

Article 800:

Communications Circuits, Voice and Data Cables.

The scope of this article covers: telephone, telegraph (except radio), voice and data.

General Purpose Cable:

Type CM, CMR, CMP, MP, MPR, MPP

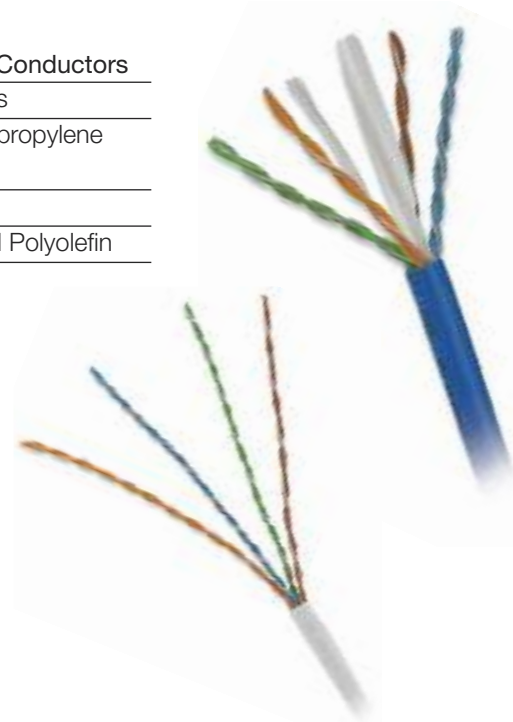
Category 6 Cables

Construction:

	Non-Plenum	Plenum	LSZH Conductors
Conductors	Unshielded Twisted Bare Copper Pairs		
Insulation	PP	FEP	Polypropylene
Spline	Dielectric Between Pairs		
Jacket	PVC	Low-Smoke PVC	LSZH Polyolefin

Features:

- Sunlight Resistant (*Except Plenum*)
- Ripcord



CATEGORY 6 PLUS (TESTED TO 500 MHz)

AWG	# PAIRS	CATEGORY	TYPE	IMPEDANCE (Ohms)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
RISER RATED – CMR, CL2R, FT4 LISTED								
23	4	6	UTP	100	15	0.240	25	5092
PLENUM RATED – CMP, CL2P, FT6 LISTED								
23	4	6	UTP	100	15	0.240	28	5102

CATEGORY 6 (TESTED TO 350 MHz)

AWG	# PAIRS	CATEGORY	TYPE	IMPEDANCE (Ohms)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. PER (lbs./Mft.)	PART #
RISER RATED – CMR, CL2R, FT4 LISTED								
23	4	6	UTP	100	15	0.210	25	6360
PLENUM RATED – CMP, CL2P, FT6 LISTED								
23	4	6	UTP	100	15	0.205	25	6361

CATEGORY 6 LOW SMOKE, ZERO HALOGEN (TESTED TO 500MHZ))

AWG	# PAIRS	CATEGORY	TYPE	IMPEDANCE (Ohms)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. PER (lbs./Mft.)	PART #
RISER RATED – CMR, CL2R, FT4 LISTED								
23	4	6	UTP	100	15	0.240	25	5115

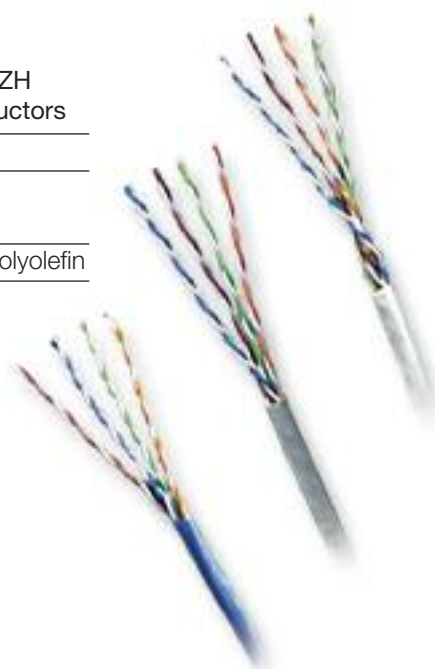
Category 5e Cables

Construction:

	Non-Plenum	Plenum	Water Resistant	LSZH Conductors
Conductors	Unshielded Twisted Bare Copper Pairs			
Insulation	PP	FEP Color Code Chart 5	PP	
Jacket	PVC	Low-Smoke PVC	LLDPE	LSZH Polyolefin

Features:

- Sunlight Resistant (*Except Plenum*)
- Ripcord



CATEGORY 5E

AWG	# PAIRS	CATEGORY	TYPE	IMPEDANCE (Ohms)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE - CM LISTED (Tested to 100 MHz)								
24	4	5e	UTP	100	15	0.200	20	6330
RISER RATED - CMR, CL2R, LISTED (Tested to 350 MHz)								
24	4	5e	UTP	100	15	0.205	22	5078
24	Dual 4	5e	UTP/UTP	100	15	0.410	43	5079
PLENUM RATED - CMP, CL2P, FT6 LISTED (Tested to 350 MHz)								
24	4	5e	UTP	100	15	0.200	23	5088
DIRECT BURIAL (Tested to 350 MHz)								
24	4	5e	UTP	100	15	0.200	24	5090

CATEGORY 5E LOW SMOKE, ZERO HALOGEN

AWG	# PAIRS	CATEGORY	TYPE	IMPEDANCE (Ohms)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE, LSZH - CM Listed (Tested to 350 MHz)								
24	4	5e	UTP	100	15	0.205	22	5080

Category 3 Cables

Construction:

	Non-Plenum	Plenum
Conductors	Unshielded Twisted Bare Copper Pairs	
Insulation	PP Conductor Color Code Chart 5	Low-Smoke PVC
Jacket	PVC	Low-Smoke PVC



Features:

- Sunlight Resistant (*Except Plenum*)
- Ripcord

AWG	# PAIRS	CATEGORY	TYPE	IMPEDANCE (Ohms)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CM, CL2 LISTED								
22	2	3	UTP	100	17	0.175	14	4930
24	2	3	UTP	100	17	0.145	11	4931
24	3	3	UTP	100	17	0.141	15	4932
24	4	3	UTP	100	17	0.170	19	4933
24	6	3	UTP	100	17	0.207	26	4934
RISER RATED – CMR, CL2R, FT4 LISTED								
24	2	3	UTP	100	17	0.150	12	5031
24	3	3	UTP	100	17	0.160	14	5032
24	4	3	UTP	100	17	0.170	19	5033
24	6	3	UTP	100	17	0.207	26	5034
PLENUM RATED – CMP, CL2P, FT6 LISTED								
24	2	3	UTP	100	17	0.165	14	5041
24	3	3	UTP	100	17	0.175	18	5042
24	4	3	UTP	100	17	0.190	23	5043

Category 3 Cross-Connect Wire

Construction:

- Unshielded Twisted Bare Copper Conductor Pairs
- Polypropylene Insulation
- Conductor Color Code Chart 5

Features:

- Sunlight Resistant (*Except Plenum*)
- Ripcord



AWG	# PAIRS	CATEGORY	TYPE	IMPEDANCE (Ohms)	NOM. CAP. (pF/ft.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE							
24	1	3	UTP	100	17	4	1031
24	2	3	UTP	100	17	7	1032



Coaxial, CATV & CCTV Cables



Honeywell's Genesis® Series 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. 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



Features:

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

STYLE	AWG	SHIELD	NOM. VP	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	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
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
WATER RESISTANT – CATV LISTED							
RG6/U	18 CCS	60%/40% Al	81	16	0.300	32	5106

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*)

STYLE	AWG	SHIELD	SWEEP FREQ.	NOM. VP	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CATV, CL2 LISTED								
RG11/U	14 CCS	60% Al	2.4 GHz	82	16	0.395	65	5018
RG6/U	18 BC	60% Al	3 GHz	82	16	0.275	31	5304
RG6/U	18 CCS	80% Al	2.4 GHz	82	16	0.275	35	5011
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
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

Coaxial, CATV & CCTV

CATV DUAL-Shielded

CCTV Coaxial Cables

Construction:

	Non-Plenum	Plenum	Water Resistant
Conductors	Solid Bare Copper		
Shield	95% Bare Copper Braid		
Jacket	PVC	Low-Smoke PVC	PE

Features:

– Sunlight Resistant (Except Plenum)



CCTV COAXIAL – RG6/U

STYLE	AWG	SHIELD	NOM. VP	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	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. (lbs./Mft.)	PART #
GENERAL PURPOSE – CL2 LISTED							
RG59/U	20 BC	95% BC	78	18	0.242	36	5001
RG59/U	20BC	95% CCA	78	17	0.242	9	6501
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

CCTV COAXIAL – 75 OHM MINI

STYLE	AWG	SHIELD	NOM. VP	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
GENERAL PURPOSE – CL2 LISTED							
75 OHM MINI	24 BC	95% BC	78	18	0.145	15	5020

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



Features:

– Sunlight Resistant (*Except Plenum*)

CCTV COAXIAL – RG6/U + POWER PAIR

STYLE	AWG	SHIELD	POWER	NOM. VP	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	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. (lbs./Mft.)	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
RG59/U + 18/2 SIAMESE	20 BC	95% BC	18/2 STR	78	18	0.421 x 0.245	60	5013
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

CCTV COAXIAL – 75 OHM MINI + POWER PAIR

STYLE	AWG	SHIELD	POWER	NOM. VP	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	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

Outdoor Cables



Direct Burial Cable:

Honeywell Genesis® Series Direct Burial Cables are specially designed to be buried under the ground. Manufactured with a more ridged jacket, they have a higher crush and impact resistance threshold. These cables are also able to withstand higher levels of heat and moisture.

Available Cables:

- Irrigation & Tracer
- Underground Lighting
- Audio/Speaker
- Fire Alarm

Water Resistant Cable

Honeywell Genesis Series Water Resistant Cables are manufactured with moisture absorption and water blocking gels or tapes. Applied under the jacket, the gels and tapes swell when they come in contact with any wet substance in order to avoid damage to the cable conductors. These materials provide an extra layer of protection in moist and wet locations.

Available Cables:

- Category 5e
- CATV Coaxial – Quad Shielded
- CATV Coaxial – Dual Shielded
- CCTV Coaxial – RG59/U
- CCTV Coaxial – RG59/U + Power Pair

Direct Burial Cables

AWG	# COND	STR/SOL	AVG. WT. (lbs./ Mft.)	PART #
IRRIGATION & TRACER - 600V RATED				
18	1	SOL	11	1301
14	1	SOL	20	1303
12	1	SOL	28	1304

AWG	# COND	NOM. O.D. (in.)	AVG. WT. (lbs./ Mft.)	PART #
UNDERGROUND LIGHTING - 150V RATED				
14	2	0.165 x 0.345	50	1021
12	2	0.165 x 0.345	82	1019
10	2	0.220 x 0.440	120	1018
8	2	0.295 x 0.590	225	1017

AWG	# COND	STR COUNT	DC RESISTANCE (Ohms / Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./ Mft.)	PART #
AUDIO - CL3, CM LISTED							
16	2	65/34	3.9	27	0.275	42	5283
16	4	65/34	4.0	21	0.350	67	5284
14	2	105/34	1.9	32	0.320	65	5285
14	4	105/34	2.5	32	0.415	110	5286

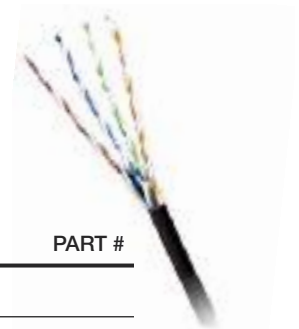


Direct Burial Cables (continued)

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms / Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./ Mft.)	PART #
18 AWG FIRE ALARM, UNSHIELDED – UL, FPL, CL2 LISTED							
18	2	STR	6.5	19	0.260	37	4156
18	4	STR	6.5	19	0.295	59	4157
18	6	STR	6.5	19	0.345	76	4158
18	8	STR	6.5	19	0.375	95	4159

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms / Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./ Mft.)	PART #
16 AWG FIRE ALARM, UNSHIELDED – UL, FPL, CL2 LISTED							
16	2	STR	3.90	21	0.282	45	4151

AWG	# COND	STR/SOL	DC RESISTANCE (Ohms / Mft.)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./ Mft.)	PART #
14 AWG FIRE ALARM, UNSHIELDED – UL, FPL, CL2 LISTED							
14	2	STR	2.5	23	0.310	60	4153
14	4	STR	2.5	23	0.355	102	4154



AWG	# PAIRS	CATEGORY	TYPE	IMPEDANCE (Ohms)	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
CATEGORY 5E (TESTED TO 350 MHZ)								
24	4	5e	UTP	100	15	0.200	24	5090

Water Resistant Cables

STYLE	AWG	SHIELD	POWER	NOM. VP	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
CCTV COAXIAL – RG59/U + POWER PAIR								
RG59/U + 18/2	20 BC	95% BC	18/2 STR	82	18	0.421 x 0.245	65	5104



STYLE #	AWG	SHIELD	NOM. VP	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART
CCTV COAXIAL – RG59/U							
RG59/U	20 BC	95% BC	82	18	0.248	36	5103




STYLE	AWG	SHIELD	SWEEP FREQ.	NOM. VP	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
CATV COAXIAL - RG6/U, DUAL-SHIELDED BROADBAND								
RG6/U	18 CCS	60% Al	1 GHz	82	16	0.275	32	5105



STYLE	AWG	SHIELD	NOM. VP	NOM. CAP. (pF/ft.)	NOM. O.D. (in.)	AVG. WT. (lbs./Mft.)	PART #
CATV COAXIAL - RG6/U, QUAD-SHIELDED BROADBAND							
RG6/U	18 CCS	60%/40% Al	81	16	0.300	32	5106

Technical Data



The NEC is a highly regarded handbook resource and considered the most comprehensive document on electrical safety. The NEC was developed by a large cross section of representatives from the electrical industry (electricians, engineers, code enforcers, researchers, testers, insurers, etc.).

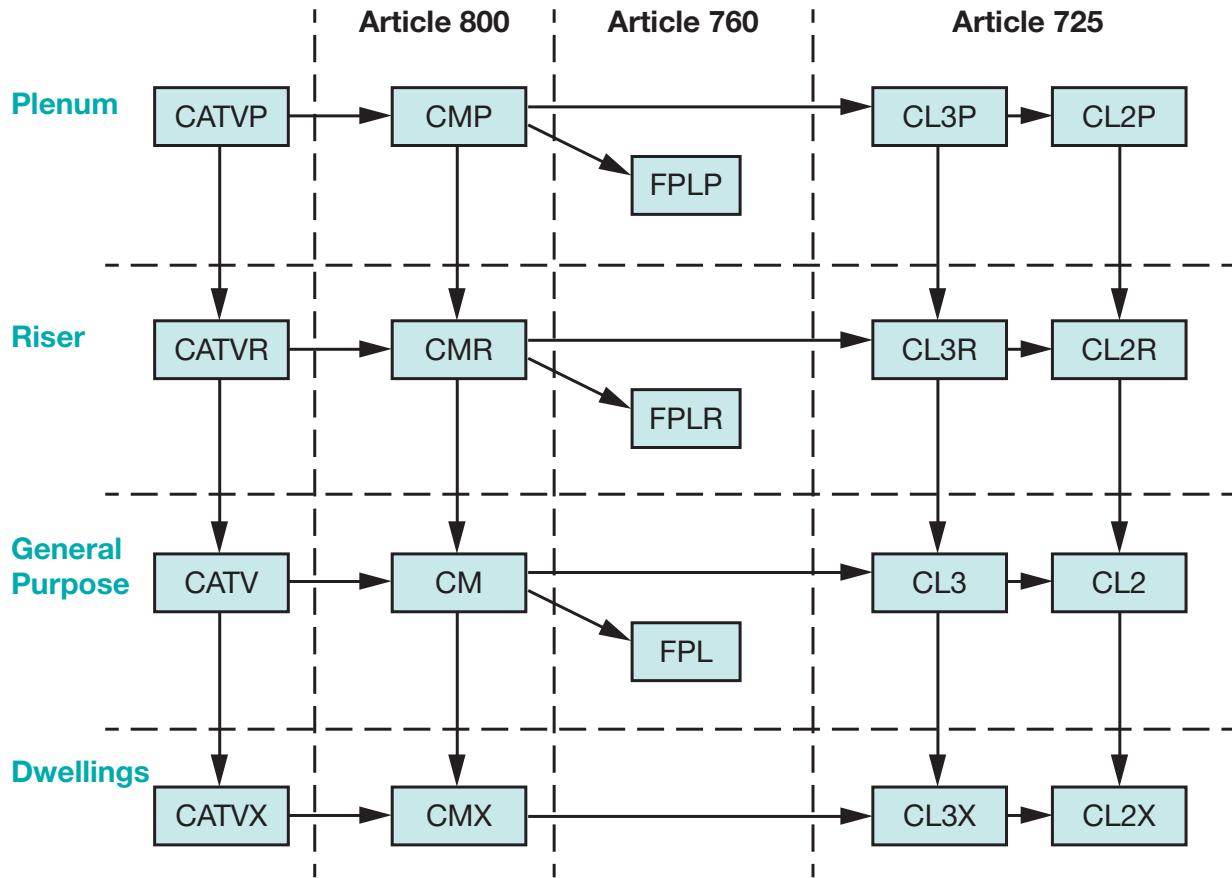
The NEC explains current code requirements and discusses pertinent code changes. Specific technical language is contained in the handbook with complete information on:

- Code Requirements and Application
- Code Intent
- Code Restrictions
- Code Interpretations

In addition, historical trends are examined, and tables and illustrations are provided. The NEC is divided into sections containing articles on specific electrical subject areas.

Community code for installations are usually based on information or requirements in the NEC. For convenience, Honeywell's Genesis® Series Cable catalog has identified pertinent NEC articles and scope of article for each cable group as well as provided useful information to help with ordering appropriate cable.

Cable Substitution Hierarchy (Based on National Electric Code)



Type CM	Communications Wires and Cables
Type CL2 and CL3	Class 2 and Class 3 Remote-Control, Signaling, and Power-Limited Cables
Type FPL	Power Limited Fire Alarm Cables
Type PLTC	Power-Limited Tray Cable
Type CATV	Community Antenna Television Cable

Conductor Color Code Charts

CHART 1
MULTI CONDUCTOR CABLES
(UP TO 12)

CONDUCTOR	COLOR
1	BLK
2	RED
3	WHT
4	GRN
5	BRN
6	BLU
7	ORG
8	YEL
9	PPL
10	GRY
11	PNK
12	TAN

EXCEPTION: 1103 and 2103
SOL = BLACK, RED, YELLOW, GREEN

CHART 2
MULTI CONDUCTOR CABLES
(OVER 12)

CONDUCTOR	COLOR/ STRIPES
1	BLK
2	WHT
3	RED
4	GRN
5	ORG
6	BLU
7	WHT/BLK
8	RED/BLK
9	GRN/BLK
10	ORG/BLK
11	BLU/BLK
12	BLK/WHT
13	RED/WHT
14	GRN/WHT
15	BLU/WHT

CHART 3
MULTI PAIR CABLES

PAIR #	COND 1/ COND 2
1	BLK/RED
2	BLK/WHT
3	BLK/GRN
4	BLK/BLU
5	BLK/YEL
6	BLK/BRN

CHART 4
FIRE ALARM CABLES

CONDUCTOR	COLOR
1	BLK
2	RED
3	GRN
4	YEL
5	BRN
6	BLU
7	PPL
8	PNK
9	TAN
10	ORG
11	BLK/WHT
12	RED/WHT

CHART 5
VOICE AND DATA CABLES

PAIR	COLOR/ STRIPES
1	BLU + WHT/BLU
2	ORG + WHT/ORG
3	GRN + WHT/GRN
4	BRN + WHT/BRN

CHART 6
THERMOSTAT WIRE

CONDUCTOR	COLOR
1	RED
2	WHT
3	GRN
4	BLU
5	YEL
6	BRN
7	ORG
8	BLK
9	PNK
10	GRY
11	TAN
12	PPL

KEY:

BLK	Black	BLU	Blue
WHT	White	ORG	Orange
GRN	Green	YEL	Yellow
BRN	Brown	PPL	Purple
PNK	Pink	GRY	Gray

Other exceptions are noted on specific page.

ANSI/TIA/EIA-568C.2 Commercial Building Telecommunications Cabling Standard

The following tables list attenuation and near-end crosstalk (NEXT) specifications from ANSI/TIA/EIA-568C.2 for Category 3, Category 5 and 6 unshielded twisted pair (UTP) cables.

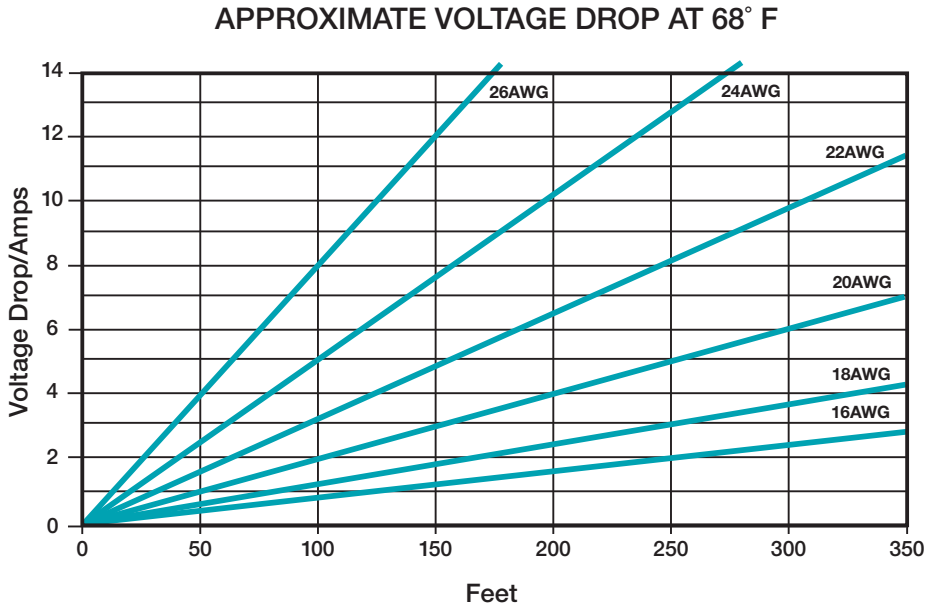
TABLE 1: HORIZONTAL UTP CABLE ATTENUATION DB/100 m (DB/1000 ft)

FREQUENCY (MHz)	CATEGORY 3	CATEGORY 5e	CATEGORY 6
0.772	2.2 (6.7)	1.8 (5.5)	1.8 (5.5)
1.0	2.6 (7.9)	2.0 (6.1)	2.0 (6.1)
4.0	5.6 (17.1)	4.1 (12.5)	3.8 (11.6)
8.0	8.5 (25.9)	5.8 (17.7)	5.3 (16.2)
10.0	9.7 (29.6)	6.5 (19.8)	6.0 (18.3)
16.0	13.1 (39.9)	8.2 (25.0)	7.6 (23.2)
20.0	–	9.3 (28.4)	8.5 (25.9)
25.0	–	10.4 (31.7)	9.5 (29.0)
31.25	–	11.7 (35.7)	10.7 (32.6)
62.5	–	17.0 (51.8)	15.4 (47.0)
100.0	–	22.0 (67.1)	19.8 (60.4)
200.0	–	–	29.0 (88.4)
250.0	–	–	32.8 (100.0)

TABLE 2: HORIZONTAL UTP CABLE NEXT LOSS, DB (WORST PAIR COMBINATION) 100 m (328 ft)

FREQUENCY (MHz)	CATEGORY 3	CATEGORY 5e	CATEGORY 6
0.772	43	67	76
1.0	41	65	74
4.0	32	56	65
8.0	27	52	61
10.0	26	50	59
16.0	23	47	56
20.0	–	45	55
25.0	–	44	53
31.25	–	42	52
62.5	–	38	47
100.0	–	35	44
200.0	–	–	40
250.0	–	–	38

Voltage Drop and Recommended Footage Chart



Note: The chart above shows the approximate values for the AC resistive component of the circuit impedance.

Example: What is the voltage drop for a 18 AWG 2/C carrying 3 amps over a distance of 100 feet?

$$\begin{aligned}
 \text{Voltage-drop} &= \text{voltage-drop/amp} \times \text{amp} \\
 &= 1.2 \times 3 \\
 &= 3.6 \text{ Volts}
 \end{aligned}$$

RECOMMENDED FOOTAGE/AWG AUDIO CABLE

Maximum Cable Length (ft.)						
Acceptable Loss (%)	4 Ohm Speaker			8 Ohm Speaker		
	10%	20%	50%	10%	20%	50%
12 AWG	250	500	1250	500	1000	2500
14 AWG	150	300	750	300	600	1500
16 AWG	95	190	475	190	380	950

Genesis® Series Cable Part Numbers, Packaging and Color Codes

All Genesis® Series Cable products come with an eight digit part number:

- The first four digits represent the product
- The next two digits represent the packaging
- The last two digits represent the color code

For Example:

This is a 500' Pull Box of Black RG6U 60% AL

- 5003 = RG6U 60% AL
- 55 = 500' Pull Box
- 08 = Black



PACKAGING*	
PACKAGING CODE	PUT UP
00	100' Coil
01	1 x 250' Reel
03	4 x 250' Reel
05	250' Pull Box
09	250' SpeedBag™
10	1000' Reel
11	1000' Pull Box
18	1000' SpeedBag
21	1000' Reel in-a-Box
39	5 x 50' Coil
40	200' SpeedBag
48	4 x 500' Reel
50	500' Reel
54	500' Reel (1 of 4-pack)
55	500' Pull Box
58	500' SpeedBag
61	500' Reel in-a-Box

COLORS*	
COLOR CODE	COLOR
01	White
02	Yellow
03	Orange
04	Red
05	Green
06	Blue
07	Brown
08	Black
09	Gray
10	Purple
11	Pink
12	Natural
13	Beige
40	Lt. Purple
99	No Overall Jacket

* See Selection Guide on www.honeywellcable.com for complete list of product options

General Information

CCTV TRANSMISSION DISTANCES	
STYLE	TYPICAL RUN LENGTH
RG6/U	Up to 1500 ft.
RG59/U BC Braid	Up to 750 ft.
RG59/U CCA Braid	Up to 600 ft.
75 Ohm Mini Coax	Up to 375 ft.

PULLING TENSIONS

Under the stress of approximately 15,000 lbs./sq. in. annealed copper will begin to permanently stretch. The table below lists the absolute maximum recommended pulling tensions for conductor sizes. For multiple conductor cable, multiply the appropriate value by the total number of conductors. These pulling tensions must be equally distributed among the conductors.

THESE LIMITS MUST NEVER BE EXCEEDED EVEN MOMENTARILY. DO NOT JERK THE CABLE. The electronic characteristics of a cable may change due to excessive tension and crushing.

PULLING TENSIONS		
GAUGE (AWG)	MAX. PULLING TENSION (LBS.)	RECOMMENDED PULLING TENSION (75% OF MAX.) (LBS.)
24	4	3.0
22	7	5.25
20	12	9.0
18	19	14.25
16	30	22.5
14	48	36.0
12	77	57.75

Conduit Capacity Chart

CONDUIT TRADE SIZE (IN.)	0.5	0.75	1	1.25	1.5	2	2.5	3	3.5	4
I.D. (IN.)	0.622	0.824	1.049	1.38	1.61	2.067	2.731	3.356	3.834	4.334
INTERNAL AREA (IN.)*	0.304	0.533	0.864	1.495	2.035	3.354	5.855	8.841	11.539	14.745
40% FILL (IN.)*	0.121	0.213	0.346	0.598	0.814	1.342	2.342	3.536	4.616	5.898

CABLE O.D. (IN.)	CABLE AREA (IN.)*	NUMBERS LISTED BELOW ARE BASED ON 40% FILL RATE FOR THREE OR MORE CABLES									
0.100	0.008	15	27	44	76	104	171	298	450	588	751
0.125	0.012	10	17	28	49	66	109	191	288	376	481
0.150	0.018	7	12	20	34	46	76	133	200	261	334
0.175	0.024	5	9	14	25	34	56	97	147	192	245
0.200	0.031	4	7	11	19	26	43	75	113	147	188
0.225	0.040	3	5	9	15	20	34	59	89	116	148
0.250	0.049	2	4	7	12	17	27	48	72	94	120
0.275	0.059	2	4	6	10	14	23	39	60	78	99
0.300	0.071	2	3	5	8	12	19	33	50	65	83
0.325	0.083	1	3	4	7	10	16	28	43	56	71
0.350	0.096	1	2	4	6	8	14	24	37	48	61
0.375	0.110	1	2	3	5	7	12	21	32	42	53
0.400	0.126	1	2	3	5	6	11	19	28	37	47
0.425	0.142	1	2	2	4	6	9	17	25	33	42
0.450	0.159	1	1	2	4	5	8	15	22	29	37
0.475	0.177	1	1	2	3	5	8	13	20	26	33
0.500	0.196	1	1	2	3	4	7	12	18	24	30
0.525	0.216	1	1	2	3	4	6	11	16	21	27
0.550	0.237	1	1	1	3	3	6	10	15	19	25
0.575	0.260	0	1	1	2	3	5	9	14	18	23
0.600	0.283	0	1	1	2	3	5	8	13	16	21
0.625	0.307	0	1	1	2	3	4	8	12	15	19
0.650	0.332	0	1	1	2	2	4	7	11	14	18
0.675	0.358	0	1	1	2	2	4	7	10	13	16
0.700	0.385	0	1	1	2	2	3	6	9	12	15
0.725	0.413	0	1	1	1	2	3	6	9	11	14
0.750	0.442	0	0	1	1	2	3	5	8	10	13
0.775	0.471	0	0	1	1	2	3	5	7	10	13
0.800	0.502	0	0	1	1	2	3	5	7	9	12
0.825	0.534	0	0	1	1	2	3	4	7	9	11
0.850	0.567	0	0	1	1	1	2	4	6	8	10
0.875	0.601	0	0	1	1	1	2	4	6	8	10
0.900	0.636	0	0	1	1	1	2	4	6	7	9
0.925	0.672	0	0	1	1	1	2	3	5	7	9
0.950	0.708	0	0	0	1	1	2	3	5	7	8
0.975	0.746	0	0	0	1	1	2	3	5	6	8
1.000	0.785	0	0	0	1	1	2	3	5	6	8
1.025	0.825	0	0	0	1	1	2	3	4	6	7
1.050	0.865	0	0	0	1	1	2	3	4	5	7
1.075	0.907	0	0	0	1	1	1	3	4	5	7

* Use as a guide when attempting to estimate conduit fill. Consult the NEC for specific information regarding conduit fill.

Glossary of Abbreviations

AI	Aluminum
BC	Bare Copper
CATV	Community Antenna Television
CCA	Copper Covered Aluminum/Copper Clad Aluminum
CCS	Copper Covered Steel/Copper Clad Steel
CCTV	Closed Circuit Television
EMI	Eletromagnetic Interference
FEP	Fluorinated Ethylene Propylene
HDTV	High Definition Television
LLDPE	Linear Low-Density Polyethylene
LSPVC	Low-Smoke Polyvinyl Chloride
MATV	Master Antenna Television
OFBC	Oxygen-Free Bare Copper
PE	Polyethylene
PP	Polypropylene
PVC	Polyvinyl Chloride
RFI	Radio Frequency Interference
SRPVC	Semi-Rigid Polyvinyl Chloride
TC	Tinned Copper
TPE	Thermoplastic Elastomer
UTP	Unshielded Twisted Pair

Index by Genesis® Part Number

1002.....	17, 47	1129.....	13	1282.....	19	2223.....	16
1004.....	17, 47	1130.....	12	1287.....	24	2224.....	16
1005.....	17, 47	1131.....	13	1290.....	19	2232.....	18
1017.....	28, 68	1138.....	12	1291.....	19	2233.....	18
1018.....	28, 68	1140.....	10	1298.....	22	2234.....	18
1019.....	28, 68	1198.....	22	1301.....	28, 68	2235.....	18
1021.....	28, 68	1202.....	14, 23, 24	1303.....	28, 68	2236.....	18
1031.....	57	1204.....	14	1304.....	28, 68	2237.....	18
1032.....	57	1206.....	14	2101.....	11	2238.....	18
1051.....	17	1207.....	14	2102.....	11	2239.....	18
1052.....	17	1208.....	14	2103.....	11	2263.....	20
1053.....	17	1209.....	14	2104.....	11	2264.....	20
1061.....	26	1213.....	15	2105.....	11	2265.....	20
1062.....	26	1214.....	15, 24, 32	2106.....	11	2266.....	20
1063.....	26	1215.....	15, 24, 32	2107.....	11	2267.....	20
1069.....	32	1216.....	15	2108.....	11	2280.....	19
1070.....	32	1217.....	15	2109.....	11	2281.....	19
1071.....	32	1218.....	15	2112.....	11	2282.....	19
1073.....	32	1221.....	16	2113.....	11	2283.....	19
1080.....	32	1222.....	16, 32	2114.....	12	2284.....	19
1081.....	32	1223.....	16	2115.....	12	3101.....	11
1082.....	32	1227.....	15	2116.....	12	3102.....	11
1101.....	10	1228.....	15	2117.....	12	3103.....	11
1102.....	10	1229.....	16	2118.....	12	3104.....	11
1103.....	10	1234.....	18	2119.....	12	3106.....	11
1104.....	10	1235.....	18	2121.....	13	3107.....	11
1105.....	10	1237.....	18	2122.....	13	3108.....	11
1106.....	10	1238.....	18	2123.....	13	3109.....	11
1107.....	10	1243.....	25	2124.....	13	3112.....	11
1108.....	10	1244.....	23, 24	2201.....	14	3113.....	11
1109.....	10	1245.....	18	2202.....	14	3114.....	12
1110.....	10	1246.....	18	2203.....	14	3115.....	12
1111.....	10	1247.....	18	2204.....	14	3116.....	12
1112.....	10	1248.....	18	2206.....	14	3117.....	12
1113.....	10	1260.....	24	2207.....	14	3118.....	12
1117.....	11	1263.....	20	2208.....	14	3119.....	12
1118.....	12	1264.....	20	2209.....	14	3121.....	13
1119.....	12, 32	1266.....	20	2214.....	15	3122.....	13
1120.....	12	1270.....	23	2215.....	15	3123.....	13
1121.....	12	1272.....	23	2216.....	15	3124.....	13
1122.....	12	1273.....	20	2217.....	15	3125.....	13
1123.....	12	1274.....	20	2218.....	15	3126.....	12
1125.....	13	1278.....	23	2219.....	15	3127.....	11
1126.....	13	1279.....	23	2221.....	16	3128.....	11
1127.....	13	1280.....	19	2222.....	16	3129.....	13

Index by Genesis® Part Number

3130	13	3276	15	4208	37	4601	36
3134	12	3280	19	4209	37	4602	36
3195	22	3281	19	4210	37	4603	36
3201	14	3282	19	4301	34	4604	36
3202	14, 24	3283	19	4306	34	4606	37
3203	14	3284	19	4307	34	4607	37
3204	14	3285	19	4308	34	4608	37
3206	14	3295	22	4309	34	4609	37
3207	14	3319	26	4310	34	4610	37
3208	14	3320	26	4311	35	4701	30
3209	14	3322	26	4312	35	4702	30
3212	15	3323	26	4313	35	4703	30
3213	15	3324	26	4314	35	4704	30
3214	15, 24	3328	26	4315	35	4705	30
3215	15, 24	4002	38	4320	35	4706	30
3216	15	4004	38	4401	36	4707	30
3217	15	4101	34	4402	36	4709	30
3218	15	4102	34	4403	36	4710	31
3219	15	4103	34	4404	36	4711	31
3221	16	4104	34	4405	36	4712	31
3222	16	4105	34	4406	37	4713	31
3223	16	4106	34	4407	37	4714	31
3224	16	4107	34	4408	37	4715	31
3226	15	4108	34	4409	37	4716	31
3227	14	4109	34	4410	37	4717	31
3228	15	4110	34	4422	38	4718	31
3230	16	4111	35	4423	38	4719	31
3231	18	4112	35	4424	38	4760	31
3246	18	4113	35	4425	38	4761	31
3247	18	4114	35	4431	39	4762	31
3248	18	4115	35	4432	39	4763	31
3249	18	4151	38, 69	4441	39	4764	31
3251	26	4153	38, 69	4442	39	4765	31
3252	26	4154	38, 69	4444	39	4766	31
3253	26	4156	38, 69	4502	34	4767	31
3254	26	4157	38, 69	4505	34	4768	31
3255	26	4158	38, 69	4506	34	4930	56
3262	20	4159	38, 69	4507	34	4931	56
3263	20	4201	36	4508	34	4932	56
3264	20	4202	36	4509	34	4933	56
3265	20	4203	36	4511	35	4934	56
3266	20	4204	36	4512	35	5001	64
3267	20	4205	36	4513	35	5002	64
3268	20	4206	37	4514	35	5003	63
3270	18	4207	37	4515	35	5006	63

Index by Genesis® Part Number

5007	62	5255	45	5651	45
5008	62	5279	44	5956	50
5009	65	5280	44	5957	50
5011	63	5281	44	6330	55
5012	63	5283	46, 68	6360	54
5013	65	5284	46, 68	6361	54
5018	63	5285	46, 68	6501	64
5019	42	5286	46, 68	6508	65
5020	64	5290	43		
5022	65	5291	43		
5027	62	5292	43		
5029	42	5293	43		
5031	56	5294	43		
5032	56	5301	64		
5033	56	5302	64		
5034	56	5303	63		
5035	42	5304	63		
5041	56	5307	62		
5042	56	5351	64		
5043	56	5352	64		
5050	50	5353	63		
5051	50	5355	65		
5060	50	5356	62		
5066	51	5381	44		
5067	51	5400	47		
5078	55	5401	47		
5079	55	5473	43		
5080	55	5474	43		
5088	23, 55	5475	43		
5090	55, 69	5476	43		
5092	54	5500	40		
5098	42	5501	40		
5099	42	5502	40		
5102	54	5503	40		
5103	64, 70	5504	40		
5104	65, 70	5505	40		
5105	63, 70	5506	40		
5106	62, 70	5550	40		
5115	54	5551	40		
5119	65	5552	40		
5250	45	5553	40		
5251	45	5554	40		
5252	45	5555	40		
5253	45	5556	40		
5254	45	5650	45		

NOTES

Lined area for taking notes, consisting of approximately 25 horizontal lines.



At Honeywell Cable, we strive to be the most trusted, go-to brand for low-voltage cable in the security, electrical and HVAC markets. It is our mission to provide quality wiring products and responsive, reliable service to enable your success every day. Intrusion, video, access control, audio/video, fire, networking, HVAC...whatever your application, "We've got a Cable for That!"

Visit www.honeywellcable.com to see our full product listing of low voltage wire and cable.

- Thermostat
- Electronic Shielded and Unshielded
- Fire
- Security
- Sound
- Video
- Voice & Data
- And Much More!

For more information:

www.honeywellcable.com

For all mobile devices:

m.honeywellcable.com

Automation and Control Solutions

Honeywell Cable & Custom Electronics

7701 95th Street

Pleasant Prairie, WI 53158

800.222.0060

www.honeywell.com

Honeywell

L/CBLPRD13CT/D
August 2013
© 2013 Honeywell International Inc.