

# Fire Alarm Cables

Our Fire Alarm Cables are manufactured in a wide variety of gauge sizes, shielding configurations and jacketing materials including plenum, riser and general purpose. Genesis 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
Colors	Red, White		Black



**Features:**

– Sunlight Resistant (Except Plenum)

**Popular Packaging:**

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

**22 AWG – UNSHIELDED**

# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>GENERAL PURPOSE – FPL LISTED</b>						
4	SOL	17.0	15	0.122	15	<b>4101 A</b>
6	SOL	17.0	15	0.144	19	<b>4102</b>
8	SOL	17.0	15	0.156	24	<b>4103</b>
10	SOL	17.5	15	0.182	31	<b>4104</b>
12	SOL	17.0	15	0.188	37	<b>4105</b>
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>						
4	SOL	17.0	15	0.122	15	<b>4301</b>
6	SOL	17.0	15	0.144	19	<b>4302 F</b>
8	SOL	17.0	15	0.156	25	<b>4303 F</b>
10	SOL	17.0	15	0.182	30	<b>4304 F</b>
12	SOL	17.0	15	0.188	36	<b>4305 F</b>
<b>PLENUM RATED – FPLP, CL2P, C(UL), FT6 LISTED</b>						
6	SOL	17.0	22	0.144	21	<b>4502</b>
10	SOL	17.0	22	0.182	33	<b>4504 F</b>
12	SOL	17.0	22	0.188	38	<b>4505</b>

A Not twisted  
F Consult factory for availability

Unshielded

Conventional

Fire Alarm

Fire Alarm Cables – Unshielded (continued)

18 AWG – UNSHIELDED

# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>GENERAL PURPOSE – FPL LISTED</b>						
2	SOL	6.5	20	0.134	17	<b>4106</b>
4	SOL	6.5	20	0.170	29	<b>4107 A</b>
6	SOL	6.32	20	0.192	41	<b>4108 c</b>
8	SOL	6.5	20	0.208	52	<b>4109 c</b>
10	SOL	6.5	20	0.244	68	<b>4110 c</b>
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>						
2	SOL	6.5	19	0.138	17	<b>4306</b>
4	SOL	6.5	19	0.174	34	<b>4307</b>
6	SOL	6.5	19	0.187	44	<b>4308 c</b>
8	SOL	6.5	19	0.208	54	<b>4309 c</b>
10	SOL	6.5	19	0.244	67	<b>4310 c</b>
<b>PLENUM RATED – FPLP, CL2P, C(UL), FT6 LISTED</b>						
2	SOL	6.5	24	0.134	19	<b>4506</b>
4	SOL	6.5	24	0.156	32	<b>4507</b>
6	SOL	6.5	24	0.192	45	<b>4508 c</b>
<b>DIRECT BURIAL – FPL LISTED</b>						
2	STR	6.5	19	0.260	37	<b>4156 c</b>
4	STR	6.5	19	0.295	59	<b>4157 c</b>
6	STR	6.5	19	0.345	76	<b>4158 c</b>
8	STR	6.5	19	0.375	95	<b>4159</b>

A Not twisted  
C Reels only

**Fire Alarm Cables – Unshielded (continued)**

**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
Colors	Red, White		Black

**Features:**

- Sunlight Resistant (Except Plenum)

**Popular Packaging:**

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

**16 AWG – UNSHIELDED**

# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>GENERAL PURPOSE – FPL LISTED</b>						
2	SOL	4.15	20	0.154	24	<b>4111</b>
4	SOL	4.15	20	0.180	43	<b>4112 c</b>
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>						
2	SOL	4.919	20	0.160	24	<b>4311</b>
4	SOL	4.150	20	0.184	43	<b>4312</b>
<b>PLENUM RATED – FPLP, CL2P, C(UL), FT6 LISTED</b>						
2	SOL	4.19	27	0.154	26	<b>4511</b>
4	SOL	4.05	27	0.180	47	<b>4512 c</b>
<b>DIRECT BURIAL – FPL LISTED</b>						
2	STR	3.90	21	0.282	45	<b>4151 c</b>

Unshielded

Conventional

Fire Alarm



C Reels only

Fire Alarm Cables – Unshielded (continued)

14 AWG – UNSHIELDED

# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>GENERAL PURPOSE – FPL LISTED</b>						
2	SOL	2.6	22	0.182	35	4113 c
4	SOL	2.6	22	0.214	64	4114 c
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>						
2	SOL	2.54	22	0.184	37	4313 c
4	SOL	2.54	22	0.214	65	4314 c
<b>PLENUM RATED – FPLP, CL2P, C(UL) FT6 LISTED</b>						
2	SOL	2.5	27	0.182	38	4513 c
4	SOL	2.5	27	0.214	68	4514 c
<b>DIRECT BURIAL – FPL, CL2 LISTED</b>						
2	STR	2.5	23	0.310	60	4153 c
4	STR	2.5	23	0.355	102	4154 c

12 AWG – UNSHIELDED

# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>GENERAL PURPOSE – FPL LISTED</b>						
2	SOL	1.6	22	0.214	52	4115 c
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>						
2	SOL	2.54	22	0.214	55	4315 c
<b>PLENUM RATED – FPLP, CL2P, C(UL), FT6 LISTED</b>						
2	SOL	1.6	30	0.214	55	4515 c

C Reels only

**Fire Alarm Cables – Overall Shielded**

**Construction:**

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



**Features:**

– Sunlight Resistant (Except Plenum)

**Popular Packaging:**

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

**22 AWG – SHIELDED**

# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>GENERAL PURPOSE – FPL LISTED</b>						
4	SOL	17.0	31	0.124	17	<b>4201</b>
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>						
4	SOL	17.5	31	0.126	16	<b>4401</b>
<b>PLENUM RATED – FPLP, CL2P, C(UL), FT6 LISTED</b>						
4	SOL	17.0	53	0.126	18	<b>4601</b>

**18 AWG – SHIELDED**

# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>GENERAL PURPOSE – FPL LISTED</b>						
2	SOL	6.5	42	0.138	20	<b>4202</b>
4	SOL	6.5	42	0.160	31	<b>4203</b>
6	SOL	6.5	42	0.196	50	<b>4204 c</b>
8	SOL	6.5	42	0.212	57	<b>4205 c</b>
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>						
2	SOL	6.5	42	0.138	21	<b>4402</b>
4	SOL	6.5	42	0.163	32	<b>4403</b>
6	SOL	6.5	42	0.196	46	<b>4404 c</b>
8	SOL	6.5	42	0.212	56	<b>4405 c</b>
<b>PLENUM RATED – FPLP, CL2P, C(UL), FT6 LISTED</b>						
2	SOL	6.5	68	0.140	22	<b>4602</b>
4	SOL	6.5	68	0.168	35	<b>4603</b>
6	SOL	6.5	68	0.196	50	<b>4604 c</b>

C Reels only

Overall Shielded (OAS)

Conventional

Fire Alarm

Fire Alarm Cables – Overall Shielded (continued)

16 AWG – SHIELDED

# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>GENERAL PURPOSE – FPL LISTED</b>						
2	SOL	4.1	46	0.158	29	4206
4	SOL	4.1	46	0.186	49	4207 c
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>						
2	SOL	4.1	46	0.158	31	4406
4	SOL	4.1	46	0.190	49	4407 c
<b>PLENUM RATED – FPLP, CL2P, C(UL), FT4 LISTED</b>						
2	SOL	4.05	77	0.158	35	4606
4	SOL	4.05	77	0.186	52	4607 c

14 AWG – SHIELDED

# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>GENERAL PURPOSE – FPL LISTED</b>						
2	SOL	2.54	52	0.186	40	4208 c
4	SOL	2.54	52	0.218	67	4209 c
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>						
2	SOL	2.54	52	0.192	42	4408 c
4	SOL	2.54	52	0.218	72	4409 c
<b>PLENUM RATED – FPLP, CL2P, C(UL), FT6 LISTED</b>						
2	SOL	2.5	86	0.186	44	4608 c
4	SOL	2.5	86	0.218	75	4609 c

12 AWG – SHIELDED

# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>GENERAL PURPOSE – FPL LISTED</b>						
2	SOL	1.6	56	0.218	59	4210 c
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>						
2	SOL	1.65	56	0.218	60	4410 c
<b>PLENUM RATED – FPLP, CL2P, C(UL), FT6 LISTED</b>						
2	SOL	1.6	96	0.218	63	4610 c

C Reels only

**Alarm Cables – Zipcord**

**Construction:**

- Solid Bare Copper Conductors
- PVC Insulation
- Parallel Zip Construction
- Jacket Colors: Red, White

**Features:**

- Sunlight Resistant
- One Conductor Ribbed for Polarity

**Popular Packaging:**

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



AWG	# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>GENERAL PURPOSE – FPL, C(UL), CMG LISTED</b>							
18	2	SOL	6.4	17	0.105 x 0.217	18	<b>4002</b>
14	2	SOL	2.54	17	0.129 x 0.273	39	<b>4004 c</b>
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>							
18	2	SOL	6.5	17	0.088 x 0.196	18	<b>4422</b>
16	2	SOL	4.05	17	0.094 x 0.200	26	<b>4423</b>
14	2	SOL	2.54	17	0.107 x 0.220	37	<b>4424 c</b>
12	2	SOL	1.6	17	0.124 x 0.250	52	<b>4425 c</b>



C Reels only



**Fire Alarm Cables – Unshielded Mid. Capacitance**

**Construction:**

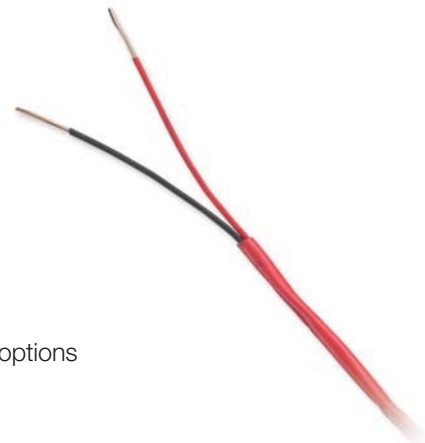
- Solid Bare Copper Conductors
- Polypropylene Insulation
- PVC Jacket
- Conductor Color Code Chart 4
- Jacket Colors: Red

**Features:**

- Sunlight Resistant

**Popular Packaging:**

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



AWG	# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>							
18	2	SOL	6.25	15	0.144	19	<b>4431</b>
16	2	SOL	4.07	17	0.170	26	<b>4432 c</b>
14	2	SOL	2.57	19	0.208	38	<b>4433 c</b>
12	2	SOL	1.60	22	0.256	60	<b>4434 CF</b>

**Fire Alarm Cables – Shielded Mid. Capacitance**

**Construction:**

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

**Features:**

- Sunlight Resistant

**Popular Packaging:**

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



AWG	# COND	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>RISER RATED – FPLR, CL2R, C(UL), FT4 LISTED</b>							
18	2	SOL	6.32	34	0.148	21	<b>4441</b>
16	2	SOL	4.07	38	0.187	32	<b>4442 c</b>
14	2	SOL	2.54	41	0.212	43	<b>4443 F</b>
12	2	SOL	1.60	48	0.260	48	<b>4444 c</b>

C Reels only  
F Consult factory for availability

## Fire Alarm Cables – Unshielded NYC Local Law 5

### Construction:

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

### Popular Packaging:

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



AWG	# PAIRS	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>NYC LL5, FPLP LISTED</b>							
18	1	SOL	6.32	45	0.198	26	<b>5500 F</b>
18	2	SOL	6.32	45	0.312	47	<b>5501 F</b>
16	1	SOL	4.07	55	0.214	36	<b>5502</b>
16	2	SOL	4.07	55	0.345	62	<b>5503 F</b>
14	1	SOL	2.54	60	0.244	47	<b>5504</b>
14	2	SOL	2.54	60	0.374	87	<b>5506</b>
12	1	SOL	1.60	65	0.272	67	<b>5505 F</b>

## Fire Alarm Cables – Shielded NYC Local Law 5

### Construction:

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

### Popular Packaging:

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



AWG	# PAIRS	STR/SOL	DC RESISTANCE (OHMS)	NOM. CAP. (PF/FT)	NOM. O.D. (IN)	AVG. WT. PER MFT (LBS)	PART #
<b>NYC LL5, FPLP LISTED</b>							
18	1	SOL	6.32	80	0.202	28	<b>5550 F</b>
18	2	SOL	6.32	80	0.316	51	<b>5551 F</b>
16	1	SOL	4.07	100	0.215	42	<b>5552</b>
16	2	SOL	4.07	100	0.343	71	<b>5553</b>
14	1	SOL	2.54	110	0.243	51	<b>5554</b>
14	2	SOL	2.54	110	0.398	93	<b>5555 F</b>
12	1	SOL	1.60	130	0.276	75	<b>5556 F</b>

F Consult factory for availability