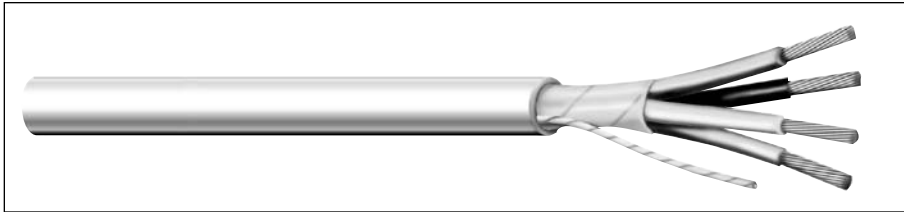


# Fire Alarm/Life Safety Cable

6



Fire alarm systems have expanded from a rather simple and unsophisticated business configured upon large, electro-mechanical devices to one relying upon the most modern technologies of microprocessor and chip technology.

More and more end users— industrial, commercial as well as consumer—are relying upon these emerging systems to protect both property and life. These systems are only as good as their weakest component, whether that component be a processor or interconnecting wire and cable.

It is General Cable's charter that all products supplied for use in these and any other systems shall be constructed of only the finest available materials, and provide the service and assurance that the end user not only needs, but requires.

Aside from the quality materials used in these designs, specifiers and end users of Carol® Brand wire and cable products have come to expect that these cables are registered and certified with the leading regulatory agencies such as Underwriters Laboratories ... and we haven't let you down!

These designs have proven themselves in the area of fire system security over time; all are fabricated with solid, bare copper conductors and insulations and jackets of premium-grade PVC. Offered both with and without shields, the former to protect these critical circuits from noise, these cables will provide the latest in available technology for the system installer and contractor.

General Cable Carol® Brand products are conveniently packaged in 1000' or 500' lengths to assist the installer.

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# Carol® Brand Alarm & Security Solutions

**General Cable's Carol® Brand is the right solution for alarm and security wire and cable.** Carol offers as broad an offering as anyone in the industry. Our Alarm and Security Solutions Guide makes it easier to specify and sell the right cables for every application in this ever-growing market.

There are five basic areas where alarm and security cables are used. General Cable has the right product to serve every application, including:

- Access Control
- Video Surveillance/CCTV
- Fire Alarm and Life Safety
- Home Theater and Burglar Alarms
- Data Communications

Our alarm and security cables offer solutions in all these major security applications markets, including:

- Commercial Buildings
- Residential Housing
- Business and Office Campus Environments
- Public Stadiums and Arenas
- Airport, Train, Bus and Other Transportation Hubs
- Schools, Colleges and Universities

Many cables also available in **ARMORED CONSTRUCTIONS** for easy plenum installations

The General Cable Alarm and Security Solutions Guide provides a quick and easy reference tool to identify every Carol® Brand cable for the appropriate alarm and security application. Whatever the security application need calls for, we have a cable that delivers the performance you need.

## Access Control

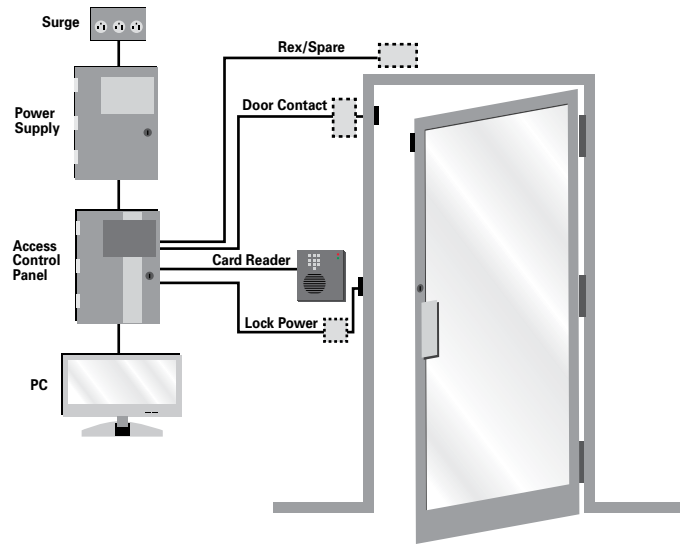


### Applications:

- Door Controllers
- Prox Sensors
- Key Pads
- Card Readers
- Gate Access

### Cable Solution Description

Cable Solution	Description
4EPL4S*	4 Shielded Elements Overall Jacket Access Control Plenum
4EPL1S*	4 Elements 1 Shielded Overall Jacket Access Control Plenum
4ERS4S**	4 Shielded Elements Overall Jacket Access Control Riser
4ERS1S**	4 Elements 1 Shielded Overall Jacket Access Control Riser
E2002S	22/2 Conductor Shielded Riser
E2004S	22/4 Conductor Shielded Riser
E2006S	22/6 Conductor Shielded Riser
E2008S	22/8 Conductor Shielded Riser
E2010S	22/10 Conductor Shielded Riser
E2012S	22/12 Conductor Shielded Riser
E2102S	22/2 Conductor Shielded Plenum
E2104S	22/4 Conductor Shielded Plenum
E2106S	22/6 Conductor Shielded Plenum
E2108S	22/8 Conductor Shielded Plenum
E2032S	18/2 Conductor Shielded Riser
E2034S	18/4 Conductor Shielded Riser
E2036S	18/6 Conductor Shielded Riser
E2038S	18/8 Conductor Shielded Riser



### Cable Solution Description

Cable Solution	Description
E2202S	18/2 Conductor Shielded Plenum
E2204S	18/4 Conductor Shielded Plenum
E2206S	18/6 Conductor Shielded Plenum
E2208S	18/8 Conductor Shielded Plenum

### Carol® Brand Composite Access Control Cable – Plenum\* (3) Multi-Conductors • (1) Multi-Pair • Overall Jacket 60°C 300 Volt (UL) & C(UL) Type CMP

Catalog Number	Overall Nominal OD Inch (mm)	Component No.	Component Descriptions	Conductors Color Code	Component Nominal OD Inch (mm)	Insulation Thickness Inch (mm)
4EPL4S	0.430	1	4 Cond, 18 AWG, Shielded	White, Black, Red, Green	0.180 (4.572)	0.008 (0.2032)
		2	3 Pair, 22 AWG, Shielded	White & Green, Orange & Brown, Red & Black	0.195 (4.93)	0.008 (0.2032)
		3	2 Cond, 22 AWG, Shielded	Red, Black	0.125 (3.175)	0.008 (0.2032)
		4	4 Cond, 22 AWG, Shielded	White, Black, Red, Green	0.145 (3.683)	0.008 (0.2032)
4EPL1S	0.420	1	4 Cond, 18 AWG, Unshielded	White, Black, Red, Green	0.180 (4.572)	0.008 (0.2032)
		2	3 Pair, 22 AWG, Shielded	White & Green, Orange & Brown, Red & Black	0.195 (4.93)	0.008 (0.2032)
		3	2 Cond, 22 AWG, Unshielded	Red, Black	0.125 (3.175)	0.008 (0.2032)
		4	4 Cond, 22 AWG, Unshielded	White, Black, Red, Green	0.145 (3.683)	0.008 (0.2032)

### Carol® Brand Composite Access Control Cable – Riser\*\* (3) Multi-Conductors • (1) Multi-Pair • Overall Jacket 60°C 300 Volt (UL) & C(UL) Type CMR

Catalog Number	Overall Nominal OD Inch (mm)	Component No.	Component Descriptions	Conductors Color Code	Component Nominal OD Inch (mm)	Insulation Thickness Inch (mm)
4ERS4S	0.430	1	4 Cond, 18 AWG, Shielded	White, Black, Red, Green	0.180 (4.572)	0.008 (0.2032)
		2	3 Pair, 22 AWG, Shielded	White & Green, Orange & Brown, Red & Black	0.195 (4.93)	0.008 (0.2032)
		3	2 Cond, 22 AWG, Shielded	Red, Black	0.125 (3.175)	0.008 (0.2032)
		4	4 Cond, 22 AWG, Shielded	White, Black, Red, Green	0.145 (3.683)	0.008 (0.2032)
4ERS1S	0.420	1	4 Cond, 18 AWG, Unshielded	White, Black, Red, Green	0.180 (4.572)	0.008 (0.2032)
		2	3 Pair, 22 AWG, Shielded	White & Green, Orange & Brown, Red & Black	0.195 (4.93)	0.008 (0.2032)
		3	2 Cond, 22 AWG, Unshielded	Red, Black	0.125 (3.175)	0.008 (0.2032)
		4	4 Cond, 22 AWG, Unshielded	White, Black, Red, Green	0.145 (3.683)	0.008 (0.2032)

**CAROL®  
BRAND**

**General Cable**

## Video Surveillance/CCTV



**Applications:**  
 CCTV  
 Satellites  
 Digital Video  
 Analog Video  
 Switchers/Multiplexers  
 Digital Recorders

### CATV/MATV/DBS RG 59, RG 6 and RG 11 Ratings

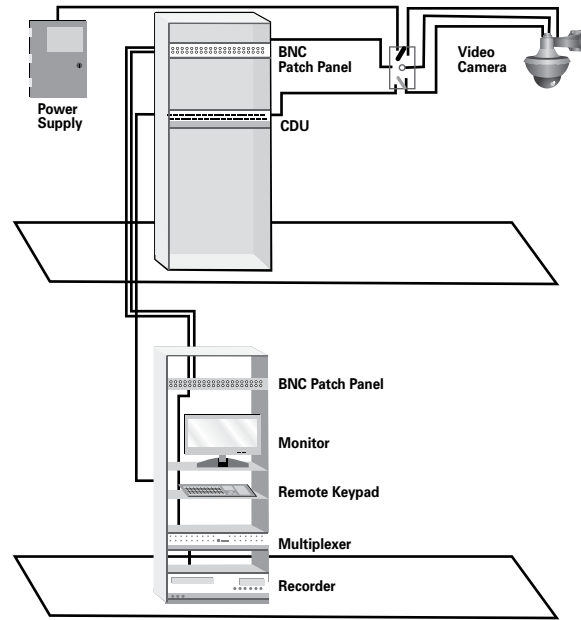
Cable Solution	Description
C3521	RG 6/U 18/1 FL + 95% TC CL2P
C3523	RG 6 SBC/Foil/61% TC Braid Plenum
C3524	RG 6 CCS/Foil/60% AL Braid Plenum
C3525	RG 6 CCS/Quad 60/40% AL Braid Plenum
C5761	RG 6 SBC Foil/95% BC Braid CATV/CM
C5775	RG 6 CCS/Foil/60% AL Braid CATV/CM
C5785	RG 6 CCS/Quad 60/40% AL Braid CATV/CM
C5886	RG 6 CCS/Foil/60% AL Braid CATV/CMR
C5889	RG 6 CCS/Quad 60/40% AL Braid CATV/CMR
C3528	RG 11 CCS/Foil/60%/AL Braid CATV/CMP Plenum
C5039	RG 11 CCS/Foil/60%/AL Braid CATV/CM
C5043	RG 11/U CCS Burial FL 60% AL
C5044	RG 11/U CCS Quad Shield CL2/CM
C1135	RG 59/U CCS 95% BC Braid CM
C3500	RG 59 CCS/95% BC Braid Plenum
C3526	RG 59/U CCS AMA/80% AL Braid CLP2/CMP

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

Cable Solution	Description
395011	RG 6 SBC/Foil/95% TC Braid CMR
395014	RG 6/U 18/1 SBC Quad Shield 60%/40% CMR
495025	RG 6/U 18 AWG SBC 95% Dual Foil TC Braid CMP Plenum
395025	RG 59 SBC/Foil/95% TC Braid CMR
395031	RG 59 Single/Miniature/Foil/95% TC Braid CMR
495023	RG 59/U SBC/Foil/95% TC Braid CMP Plenum

### Low Skew - 4 Pair UTP Cables for RGB Video

Cable Solution	Description
E3842S	Low Skew 24/4 UTP CMP for RGB Video
E1842S	Low Skew 24/4 UTP CMR for RGB Video
E3843S	Low Skew 23/4 UTP CMP for RGB Video
E1843S	Low Skew 23/4 UTP CMR for RGB Video



### CCTV RG 59 and RG 11 Ratings

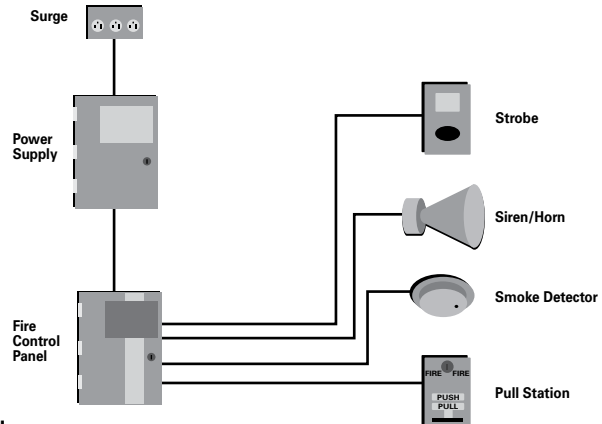
Cable Solution	Description
C8029	RG 6 + 18/2 Unshielded CATV/CM
C8031	RG 6/U SBC/95% + 18/2 Unshielded Pair CMP Plenum
495035	RG 6/U 18 AWG SBC 95% BC CMP Plenum
395058	RG 11 SBC/95% BC Braid CM
495015	RG 11 SBC/95% BC Braid CMP Plenum
C1103	RG 59 BC/95% BC Braid CATV/CM
C1142	RG 59 SBC/95% BC Braid CATV/CM
C8025	RG 59/U STR (7/30) BC/95% + 22/2 SH Pair CCTV/CM
C8027	RG 59 + 18/2 Shielded CATV/CM
C8028	RG 59 + 18/2 Unshielded CATV/CM
C8030	RG 59/U SBC/95% + 18/2 Unshielded Pair CCTV Plenum
495028	RG 59 SBC/95% BC Braid CMP Plenum

## Fire Alarm and Life Safety



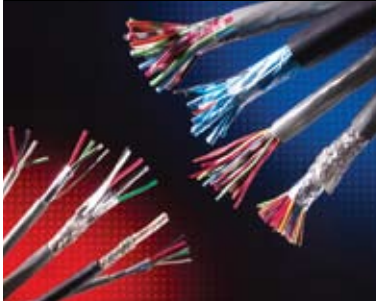
**Applications:**  
 Smoke Detectors  
 Strobes/Sirens  
 Pull Stations  
 Microprocessor/  
 Addressable  
 Controlled Systems

Cable Solution	Description
E1502S	18/2 Conductor Riser FPLR
E1504S	18/4 Conductor Riser FPLR
E1522S	14/2 Conductor Riser FPLR
E1524S	14/4 Conductor Riser FPLR
E2502S	18/2 Conductor Shielded Riser FPLR
E2504S	18/4 Conductor Shielded Riser FPLR
E2532S	14/2 Conductor Shielded Riser FPLR
E2534S	14/4 Conductor Shielded Riser FPLR
E3502S	18/2 Conductor Plenum FPLP
E3504S	18/4 Conductor Plenum FPLP
E3522S	14/2 Conductor Plenum FPLP
E3524S	14/4 Conductor Plenum FPLP



Cable Solution	Description
E3602S	18/2 Conductor Shielded Plenum FPLP
E3604S	18/4 Conductor Shielded Plenum FPLP
E3622S	14/2 Conductor Shielded Plenum FPLP
E3624S	14/4 Conductor Shielded Plenum FPLP

## Home Theater and Burglar Alarms



**Applications:**  
Intercoms  
PA Systems  
Sound Systems  
Emergency Phones  
Speakers  
Burglar Alarms  
Home Theater

### Cable Solution Description

Cable Solution	Description
E1002S	22/2 Conductor Riser
E1004S	22/4 Conductor Riser
C4408	22/2 Solid Conductor CMR/CMX
C4408ST	22/2 Stranded Conductor CMR/CMX
C4412	22/4 Solid Conductor Solid CMR/CMX
C4412ST	22/4 Stranded Conductor CMR/CMX
C4408.86.XX	22/2 Solid Conductor CM/CMX*
C4408ST.86.XX	22/2 Stranded Conductor CM/CMX*
C4412.86.XX	22/4 Solid Conductor CM/CMX*
C4412ST.86.XX	22/4 Stranded Conductor CM/CMX*
E1006S	22/6 Conductor Riser
E1008S	22/8 Conductor Riser
E1032S	18/2 Conductor Riser
E1034S	18/4 Conductor Riser
E1042S	16/2 Conductor Riser
E1044S	16/4 Conductor Riser
E1052S	14/2 Conductor Riser
E1054S	14/4 Conductor Riser
E1062S	12/2 Conductor Riser
E1064S	12/4 Conductor Riser

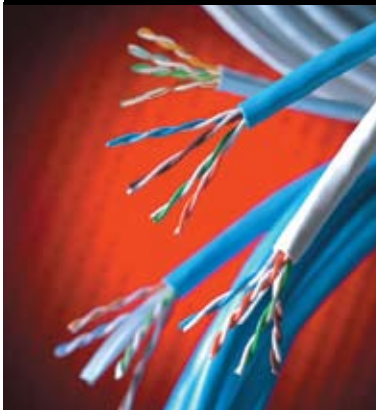
\*Available Colors for Burglar Alarm Coil Packs  
XX= White Gray Green Beige Yellow Dark Blue

**Burglar Alarm Cable in 500' Coil Packs\***

**Oxygen-Free + ETP High-Performance Home Theater Cables**

Cable Solution	Description
C1000	Command® Series Twisted Pair Speaker, 22/2, 7x30 Stranding, 500' Reels
C1001	Command Series Twisted Pair Speaker, 20/2, 7x28 Stranding, 500' Reels
C1002	Command Series Twisted Pair Speaker, 18/2, 7x26 Stranding, 500' Reels
C1003	Command Series Twisted Pair Speaker, 16/2, 19x29 Stranding, 500' Reels
C1004	Command Series Twisted Pair Speaker, 14/2, 42x30 Stranding, 500' Reels
C1005	Command Series Twisted Pair Speaker, 12/2, 65x30 Stranding, 500' Reels
C1362	22/2 Conductor Zip (not for inwall use)
C1357	18/2 Conductor Zip (not for inwall use)
C1458	16/2 Conductor Zip CL2
C1461	14/2 Conductor Zip CL2
C1463	12/2 Conductor Zip CL2
C1702	14/2 Command Series Home Grade Speaker
C1703	14/4 Command Series Home Grade Speaker
C1704	16/2 Command Series Home Grade Speaker
C1705	16/4 Command Series Home Grade Speaker
C1800	Command Series "High Def" Speaker Type NEC, 12/2, 105x32 Stranding, 500' Reels
C1801	Command Series "High Def" Speaker Type NEC, 12/4, 105x32 Stranding, 500' Reels
C1802	Command Series "High Def" Speaker Type NEC, 14/2, 105x34 Stranding, 500' Boxes
C1803	Command Series "High Def" Speaker Type NEC, 14/4, 105x34 Stranding, 500' Reels
C1804	Command Series "High Def" Speaker Type NEC, 16/2, 65x34 Stranding, 500' Boxes
C1805	Command Series "High Def" Speaker Type NEC, 16/4, 65x34 Stranding, 500' Boxes
395031X3	23/3 Command Series RGB Cables, Solid BC, Foam PE, Dual Foil + 95% TC Braid
395031X5	23/5 Command Series RGB Cables, Solid BC, Foam PE, Dual Foil + 95% TC Braid

## Carol® Brand Helix/Hi-Temp® Data Communications



**Applications:**  
Telephones  
Cat 5e and 6  
Connections  
Networking  
Workstations  
Video Conferencing  
Telco Closets  
Home Automation  
IP Cameras

### Cat 5e Pull-Pac® II

Standard packaging: 1000' Pull-Pac® II

Jacket Color	Pull-Pac® II	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	CR5.30.07	CP5.30.07
White	CR5.30.02	CP5.30.02
Gray	CR5.30.10	CP5.30.10
Green	CR5.30.06	CP5.30.06
Yellow	CR5.30.05	CP5.30.05
Red	CR5.30.03	CP5.30.03

### Cat 6 Pull-Pac® II

Standard packaging: 1000' Pull-Pac® II

Jacket Color	Pull-Pac® II	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	CR6.30.07	CP6.30.07
White	CR6.30.02	CP6.30.02
Gray	CR6.30.10	CP6.30.10
Green	CR6.30.06	CP6.30.06
Yellow	CR6.30.05	CP6.30.05
Red	CR6.30.03	CP6.30.03

### Cat 5e Spool-Pac®

Standard packaging: 1000' Spool-Pac®

Jacket Color	Spool-Pac®	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	CR5.A3.07	CP5.A3.07
White	CR5.A3.02	CP5.A3.02
Gray	CR5.A3.10	CP5.A3.10
Green	CR5.A3.06	CP5.A3.06
Yellow	CR5.A3.05	CP5.A3.05
Red	CR5.A3.03	CP5.A3.03

### Cat 6 Spool-Pac®

Standard packaging: 1000' Spool-Pac®

Jacket Color	Spool-Pac®	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	CR6.A3.07	CP6.A3.07
White	CR6.A3.02	CP6.A3.02
Gray	CR6.A3.10	CP6.A3.10
Green	CR6.A3.06	CP6.A3.06
Yellow	CR6.A3.05	CP6.A3.05
Red	CR6.A3.03	CP6.A3.03

**CAROL BRAND**

**General Cable**



# Multi-Conductor, Unshielded, Non-Plenum

## NEC Type FPLR

**Product Construction:**

**Conductor:**

- 22 thru 12 AWG fully annealed solid bare copper per ASTM B-3

**Insulation:**

- Premium-grade, color-coded S-R PVC
- Color code: See chart below

**Jacket:**

- Premium-grade, red PVC
- Suitable for use from -20°C to +75°C
- Round constructions have sequential footage markings to facilitate installation
- Includes ripcord on round constructions

**Applications:**

- Wiring of fire alarms
- Smoke detectors
- Voice communications
- Burglar alarms
- Fire protective circuits
- Suggested voltage rating: 300 volts

**Compliances:**

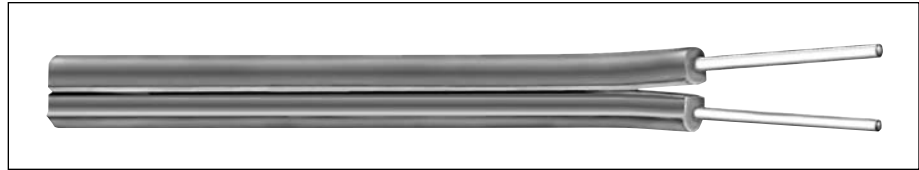
- NEC Article 760 Type FPLR (UL: 75°C, 300V)
- California State Fire Marshall Approved
- RoHS Compliant Directive 2002/95/EC
- Designed to meet UL 1666 Flame Test

**Packaging:**

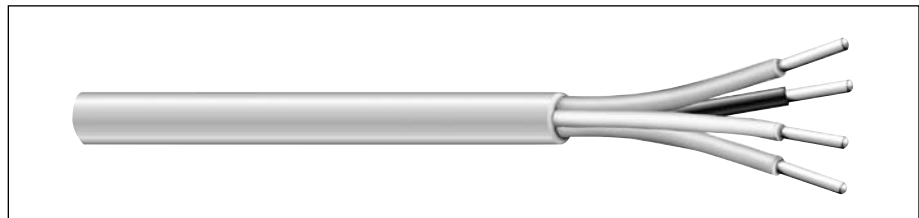
- Please contact Customer Service for packaging and color options

**Color Code Chart**

NO. OF COND.	COLOR
1	Black
2	Red
3	Brown
4	Blue
5	Orange
6	Yellow
7	Violet
8	Gray



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOMINAL O.D.	
				INCHES	mm	INCHES	mm
<b>DUPLIX PARALLEL, RIBBED FOR POLARITY</b>							
<b>E2402S</b>	2	18	Solid	0.032	0.81	0.105 x 0.210	2.67 x 5.33
<b>E2404S</b>	2	16	Solid	0.032	0.81	0.115 x 0.230	2.92 x 5.84
<b>E2406S</b>	2	14	Solid	0.032	0.81	0.126 x 0.260	3.20 x 6.60



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET WALL		NOMINAL O.D.	
				INCHES	mm	INCHES	mm	INCHES	mm
<b>22 AWG CONDUCTORS</b>									
<b>E1482S</b>	2	22	Solid	0.010	0.25	0.015	0.38	0.121	3.07
<b>E1484S</b>	4	22	Solid	0.010	0.25	0.015	0.38	0.140	3.56
<b>E1486S</b>	6	22	Solid	0.010	0.25	0.015	0.38	0.168	4.27
<b>18 AWG CONDUCTORS</b>									
<b>E1502S</b>	2	18	Solid	0.010	0.25	0.015	0.38	0.150	3.81
<b>E1503S</b>	3	18	Solid	0.010	0.25	0.015	0.38	0.160	4.06
<b>E1504S</b>	4	18	Solid	0.010	0.25	0.015	0.38	0.175	4.45
<b>E1505S</b>	5	18	Solid	0.010	0.25	0.015	0.38	0.193	4.90
<b>E1506S</b>	6	18	Solid	0.010	0.25	0.015	0.38	0.210	5.33
<b>E1508S</b>	8	18	Solid	0.010	0.25	0.015	0.38	0.230	5.84
<b>16 AWG CONDUCTORS</b>									
<b>E1512S</b>	2	16	Solid	0.010	0.25	0.015	0.38	0.172	4.37
<b>E1514S</b>	4	16	Solid	0.010	0.25	0.015	0.38	0.202	5.13
<b>14 AWG CONDUCTORS</b>									
<b>E1522S</b>	2	14	Solid	0.013	0.33	0.015	0.38	0.210	5.33
<b>E1524S</b>	4	14	Solid	0.013	0.33	0.015	0.38	0.248	6.30
<b>12 AWG CONDUCTORS</b>									
<b>E1532S</b>	2	12	Solid	0.013	0.33	0.015	0.38	0.244	6.20
<b>E1534S</b>	4	12	Solid	0.013	0.33	0.015	0.38	0.288	7.32

# Multi-Conductor, Unshielded, Non-Plenum

CSA FAS 105, FPL (UL), NEC Type PLTC



**Product Construction:**

**Conductor:**

- 22 thru 12 AWG fully annealed solid bare copper per ASTM B-3

**Insulation:**

- Premium-grade PVC
- Color code: See page 229 for the CSA Fire Alarm Color Code Chart

**Jacket:**

- Premium-grade, red PVC; brown as an option
- Temperature range: -20°C to +105°C
- TRU-Mark® print legend contains footage markings from 1000' to 0'

**Applications:**

- Wiring of fire alarms
- Smoke alarms
- Voice communications
- Burglar alarms
- Fire protective circuits
- Suggested voltage rating: 300 volts

**Compliances:**

- NEC Article 725 PLTC (UL: 105°C, 300V)
- NEC Article 760 Type FPL (UL: 105°C, 300V)
- CSA FAS 105 (CSA: 105°C, 300V)
- C22.2 No. 208-03 (R2008)
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA FT-4 Vertical Flame Test

**Packaging:**

- Please contact Customer Service for packaging and color options

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET WALL		NOMINAL O.D.	
				INCHES	mm	INCHES	mm	INCHES	mm
C4300A	6	22	Solid	0.012	0.30	0.042	1.07	0.232	5.89
C4301A	15	22	Solid	0.012	0.30	0.042	1.07	0.316	8.03
C4302A	20	22	Solid	0.012	0.30	0.042	1.07	0.346	8.79
C4304A	2	18	Solid	0.015	0.38	0.042	1.07	0.225	5.71
C4305A	3	18	Solid	0.015	0.38	0.042	1.07	0.236	5.99
C4306A	4	18	Solid	0.015	0.38	0.042	1.07	0.255	6.47
C4307A	5	18	Solid	0.015	0.38	0.042	1.07	0.274	6.96
C4308A	6	18	Solid	0.015	0.38	0.042	1.07	0.296	7.52
C4309A	7	18	Solid	0.015	0.38	0.042	1.07	0.296	7.52
C4310A	8	18	Solid	0.015	0.38	0.042	1.07	0.317	8.05
C4312A	9	18	Solid	0.015	0.38	0.042	1.07	0.339	8.61
C4313A	10	18	Solid	0.015	0.38	0.042	1.07	0.366	9.30
C4314A	11	18	Solid	0.015	0.38	0.042	1.07	0.366	9.30
C4315A	15	18	Solid	0.015	0.38	0.053	1.35	0.437	11.10
C4316A	20	18	Solid	0.015	0.38	0.053	1.35	0.480	12.19
C4317A	21	18	Solid	0.015	0.38	0.053	1.35	0.480	12.19
C4318A	30	18	Solid	0.015	0.38	0.053	1.35	0.558	14.17
C4321A	2	16	Solid	0.015	0.38	0.042	1.07	0.246	6.25
C4322A	3	16	Solid	0.015	0.38	0.042	1.07	0.258	6.55
C4323A	4	16	Solid	0.015	0.38	0.042	1.07	0.280	7.11
C4349A	5	16	Solid	0.015	0.38	0.042	1.07	0.302	7.67
C4324A	2	14	Solid	0.015	0.38	0.042	1.07	0.272	6.91
C4325A	3	14	Solid	0.015	0.38	0.042	1.07	0.286	7.26
C4326A	4	14	Solid	0.015	0.38	0.042	1.07	0.311	7.90
C4327A	2	12	Solid	0.020	0.51	0.042	1.07	0.326	8.28



# Multi-Conductor, Shielded, Non-Plenum

## NEC Type FPLR

**Product Construction:**

**Conductor:**

- 22 thru 12 AWG fully annealed solid bare copper per ASTM B-3

**Insulation:**

- Premium-grade, color-coded S-R PVC
- Color code: See chart below

**Shield:**

- Overall Flexfoil® polyester supported aluminum foil
- Stranded tinned copper drain wire

**Jacket:**

- Premium-grade, red PVC
- Temperature range: -20°C to +75°C
- Sequential footage markings to facilitate installation
- Includes ripcord

**Applications:**

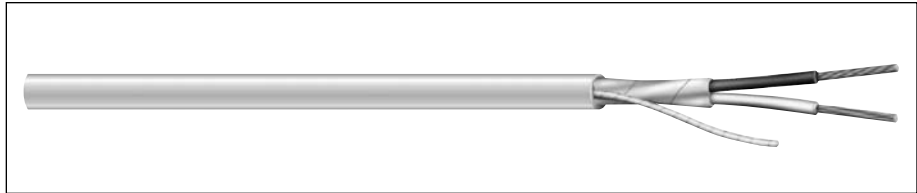
- Wiring of fire alarms
- Smoke alarms
- Voice communications
- Burglar alarms
- Fire protective circuits
- Suggested voltage rating: 300 volts

**Compliances:**

- NEC Article 760 Type FPLR (UL: 75°C, 300V)
- California State Fire Marshall Approved
- RoHS Compliant Directive 2002/95/EC
- Designed to meet UL 1666 Flame Test

**Packaging:**

- Please contact Customer Service for packaging and color options



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET WALL		NOMINAL O.D.	
				INCHES	mm	INCHES	mm	INCHES	mm

**22 AWG CONDUCTORS**

<b>E2482S</b>	2	22	Solid	0.010	0.25	0.015	0.38	0.126	3.20
<b>E2484S</b>	4	22	Solid	0.010	0.25	0.015	0.38	0.145	3.68

**18 AWG CONDUCTORS**

<b>E2502S</b>	2	18	Solid	0.010	0.25	0.015	0.38	0.158	4.01
<b>E2503S</b>	3	18	Solid	0.010	0.25	0.015	0.38	0.165	4.19
<b>E2504S</b>	4	18	Solid	0.010	0.25	0.015	0.38	0.183	4.65
<b>E2506S</b>	6	18	Solid	0.010	0.25	0.015	0.38	0.216	5.49
<b>E2508S</b>	8	18	Solid	0.010	0.25	0.015	0.38	0.235	5.97

**16 AWG CONDUCTORS**

<b>E2522S</b>	2	16	Solid	0.010	0.25	0.015	0.38	0.180	4.57
<b>E2524S</b>	4	16	Solid	0.010	0.25	0.015	0.38	0.210	5.33

**14 AWG CONDUCTORS**

<b>E2532S</b>	2	14	Solid	0.013	0.33	0.015	0.38	0.218	5.54
<b>E2534S</b>	4	14	Solid	0.013	0.33	0.015	0.38	0.253	6.43

**12 AWG CONDUCTORS**

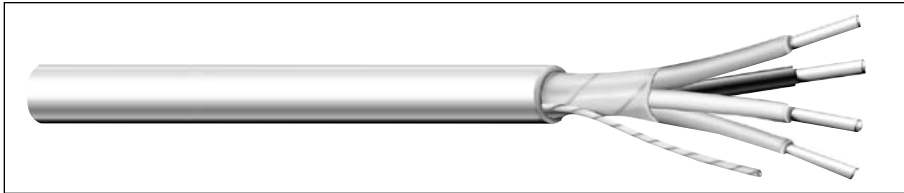
<b>E2542S</b>	2	12	Solid	0.013	0.33	0.015	0.38	0.252	6.40
<b>E2544S</b>	4	12	Solid	0.013	0.33	0.015	0.38	0.293	7.44

**Color Code Chart**

NO. OF COND.	COLOR
1	Black
2	Red
3	Brown
4	Blue
5	Orange
6	Yellow
7	Violet
8	Gray

# Multi-Conductor, Shielded, Non-Plenum

CSA FAS 105, FPL (UL), NEC Type PLTC



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	DRAIN WIRE AWG	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.	
					INCHES	mm	INCHES	mm	INCHES	mm
C4334A	2	18	Solid	22	0.015	0.38	0.042	1.07	0.230	5.84
C4335A	3	18	Solid	22	0.015	0.38	0.042	1.07	0.241	6.12
C4336A	4	18	Solid	22	0.015	0.38	0.042	1.07	0.260	6.60
C4337A	5	18	Solid	22	0.015	0.38	0.042	1.07	0.279	7.09
C4338A	6	18	Solid	22	0.015	0.38	0.042	1.07	0.301	7.65
C4339A	7	18	Solid	22	0.015	0.38	0.042	1.07	0.301	7.65
C4340A	8	18	Solid	22	0.015	0.38	0.042	1.07	0.322	8.18
C4341A	9	18	Solid	22	0.015	0.38	0.042	1.07	0.344	8.74
C4342A	10	18	Solid	22	0.015	0.38	0.042	1.07	0.371	9.42
C4343A	30	18	Solid	22	0.015	0.38	0.053	1.35	0.563	14.30
C4344A	2	16	Solid	22	0.015	0.38	0.042	1.07	0.251	6.37
C4345A	3	16	Solid	22	0.015	0.38	0.042	1.07	0.263	6.68
C4346A	4	16	Solid	22	0.015	0.38	0.042	1.07	0.285	7.24
C4350A	5	16	Solid	22	0.015	0.38	0.042	1.07	0.307	7.80
C4347A	2	14	Solid	16	0.015	0.38	0.042	1.07	0.277	7.04
C4348A	2	12	Solid	16	0.020	0.51	0.042	1.07	0.331	8.41

**Product Construction:**

**Conductor:**

- 18-12 AWG fully annealed, solid bare copper per ASTM B-3

**Insulation:**

- Premium-grade, color-coded PVC
- Color code: See page 229 for the CSA Fire Alarm Color Code Chart

**Shield:**

- 100% Flexfoil® aluminum/polyester with 25% overlap, foil facing out
- Stranded tinned copper drain wire

**Jacket:**

- Premium-grade, red PVC; brown as an option
- Temperature range: -20°C to +105°C
- TRU-Mark® print legend contains footage markings from 1000' to 0'

**Applications:**

- Wiring of fire alarms
- Smoke alarms
- Voice communications
- Burglar alarms
- Fire protective circuits
- Suggested voltage rating: 300 volts

**Compliances:**

- NEC Article 725 PLTC (UL: 105°C, 300V)
- NEC Article 760 Type FPL (UL: 105°C, 300V)
- CSA FAS 105 (CSA: 105°C, 300V)
- C22.2 No. 208-03 (R2008)
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA FT-4 Vertical Flame Test

**Packaging:**

- Please contact Customer Service for packaging and color options





# Multi-Conductor, Unshielded, Plenum

## NEC Type FPLP

**Product Construction:**

**Conductor:**

- 22 thru 12 AWG fully annealed solid bare copper per ASTM B-3

**Insulation:**

- Premium-grade, color-coded Flexguard® PVC
- Color code: See chart below

**Jacket:**

- Premium-grade, red Flexguard® PVC
- Temperature range: 0°C to +75°C
- Sequential footage markings to facilitate installation
- Includes ripcord

**Applications:**

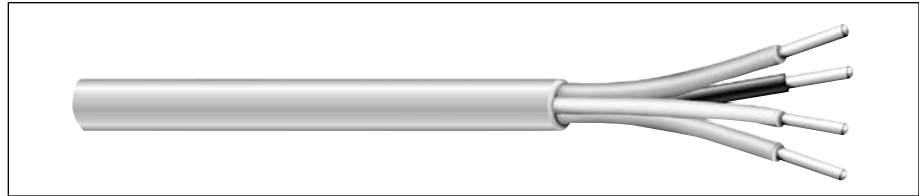
- Wiring of fire alarms
- Smoke detectors
- Voice communications
- Burglar alarms
- Fire protective circuits
- Suggested voltage rating: 300 volts

**Compliances:**

- NEC Article 760 Type FPLP (UL: 75°C, 300V)
- California State Fire Marshall Approved
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

**Packaging:**

- Please contact Customer Service for packaging and color options



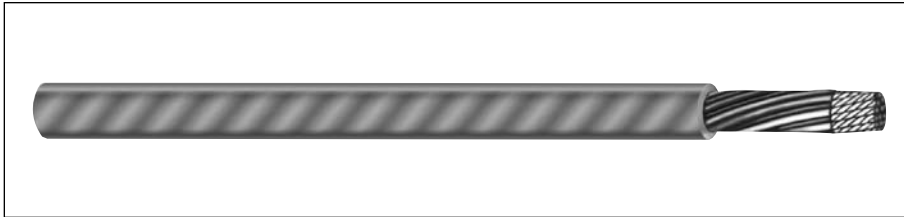
CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET WALL		NOMINAL O.D.	
				INCHES	mm	INCHES	mm	INCHES	mm
<b>22 AWG CONDUCTORS</b>									
E3482S	2	22	Solid	0.010	0.25	0.015	0.38	0.121	3.07
E3484S	4	22	Solid	0.010	0.25	0.015	0.38	0.137	3.47
<b>18 AWG CONDUCTORS</b>									
E3502S	2	18	Solid	0.010	0.25	0.015	0.38	0.155	3.81
E3503S	3	18	Solid	0.010	0.25	0.015	0.38	0.160	4.06
E3504S	4	18	Solid	0.010	0.25	0.015	0.38	0.175	4.45
E3506S	6	18	Solid	0.010	0.25	0.015	0.38	0.211	5.36
<b>16 AWG CONDUCTORS</b>									
E3512S	2	16	Solid	0.010	0.25	0.015	0.38	0.172	4.37
E3514S	4	16	Solid	0.010	0.25	0.015	0.38	0.202	5.13
<b>14 AWG CONDUCTORS</b>									
E3522S	2	14	Solid	0.012	0.30	0.015	0.38	0.205	5.21
E3524S	4	14	Solid	0.012	0.30	0.015	0.38	0.243	6.17
<b>12 AWG CONDUCTORS</b>									
E3532S	2	12	Solid	0.012	0.30	0.015	0.38	0.244	6.20
E3534S	4	12	Solid	0.012	0.30	0.015	0.38	0.284	7.21

**Color Code Chart**

NO. OF COND.	COLOR
1	Black
2	Red
3	Brown
4	Blue
5	Orange
6	Yellow

# Multi-Conductor, Unshielded, Plenum

NEC Type FPLP, PVDF Jacketed



## Product Construction

### Conductor:

- 18 thru 12 AWG fully annealed solid bare copper to ASTM B-3

### Insulation:

- Premium-grade, color-coded Flexguard® PVC
- Color code: See chart below

### Jacket:

- Fluoropolymer, red
- Temperature range: -10°C to +75°C
- Includes ripcord

## Applications:

- Fire alarm systems
- Voice communications
- Smoke detectors
- Pull boxes
- Suggested voltage rating: 300 volts

## Compliances:

- NEC Article 760 Type FPLP (UL: 75°C, 300V)
- California State Fire Marshall Approved
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

## Features:

- Abrasion-, chemical- and water-resistant jacket
- Sequentially footage marked

## Packaging:

- Please contact Customer Service for packaging and color options

CATALOG NUMBER	NO. OF COND	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOM.* C-C CAP. pF/ft
				IN	mm	IN	mm	IN	mm	
C3200	2	18	Solid	0.010	0.23	0.010	0.25	0.140	3.56	29.0
C3201	4	18	Solid	0.010	0.23	0.010	0.25	0.156	3.96	29.0
C3210	2	16	Solid	0.010	0.23	0.010	0.25	0.133	3.38	31.0
C3211	4	16	Solid	0.010	0.23	0.010	0.25	0.186	4.72	31.0
C3220	2	14	Solid	0.013	0.31	0.010	0.25	0.170	4.32	31.0
C3223	4	14	Solid	0.013	0.31	0.010	0.25	0.224	5.69	31.0
C3224	2	12	Solid	0.013	0.31	0.010	0.25	0.194	4.93	35.0
C3225	4	12	Solid	0.013	0.31	0.010	0.25	0.261	6.63	35.0

\*Capacitance between conductors

## Color Code Chart

NO. OF COND.	COLOR
1	Black
2	Red
3	Brown
4	Blue



Designed to Meet  
NFPA 262 and CSA FT-6  
Steiner Tunnel Fire Tests  
for Plenum Applications

Underwriters Laboratories Inc.



# Multi-Conductor, Shielded, Plenum

## NEC Type FPLP

**Product Construction:**

**Conductor:**

- 22 thru 12 AWG fully annealed solid bare copper per ASTM B-3

**Insulation:**

- Premium-grade, color-coded Flexguard® PVC
- Color code: See chart below

**Shield:**

- Overall Flexfoil® polyester supported aluminum foil
- Stranded tinned copper drain wire

**Jacket:**

- Premium-grade, red Flexguard® PVC
- Suitable for use from 0°C to +75°C
- Sequential footage markings to facilitate installation
- Includes ripcord

**Applications:**

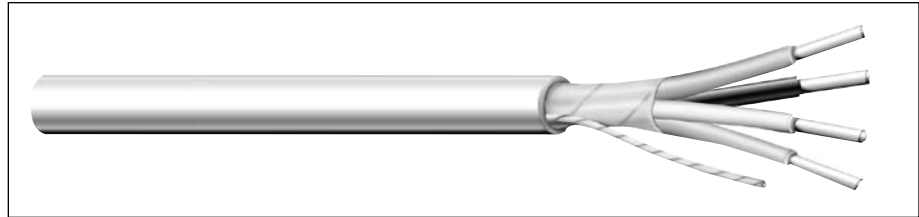
- Wiring of fire alarms
- Smoke detectors
- Voice communications
- Burglar alarms
- Fire protective circuits
- Suggested voltage rating: 300 volts

**Compliances:**

- NEC Article 760 Type FPLP (UL: 75°C, 300V)
- California State Fire Marshall Approved
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

**Packaging:**

- Please contact Customer Service for packaging and color options



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET WALL		NOMINAL O.D.	
				INCHES	mm	INCHES	mm	INCHES	mm
<b>22 AWG CONDUCTORS</b>									
<b>E3542S</b>	2	22	Solid	0.010	0.25	0.015	0.38	0.126	3.20
<b>18 AWG CONDUCTORS</b>									
<b>E3602S</b>	2	18	Solid	0.010	0.25	0.015	0.38	0.158	4.01
<b>E3603S</b>	3	18	Solid	0.010	0.25	0.015	0.38	0.165	4.19
<b>E3604S</b>	4	18	Solid	0.010	0.25	0.015	0.38	0.183	4.65
<b>E3606S</b>	6	18	Solid	0.010	0.25	0.015	0.38	0.216	5.49
<b>16 AWG CONDUCTORS</b>									
<b>E3612S</b>	2	16	Solid	0.010	0.25	0.015	0.38	0.180	4.57
<b>E3614S</b>	4	16	Solid	0.010	0.25	0.015	0.38	0.210	5.33
<b>14 AWG CONDUCTORS</b>									
<b>E3622S</b>	2	14	Solid	0.012	0.30	0.015	0.38	0.210	5.33
<b>E3624S</b>	4	14	Solid	0.012	0.30	0.015	0.38	0.248	6.30
<b>12 AWG CONDUCTORS</b>									
<b>E3632S</b>	2	12	Solid	0.012	0.30	0.015	0.38	0.252	6.40
<b>E3634S</b>	4	12	Solid	0.012	0.30	0.015	0.38	0.300	7.62

**Color Code Chart**

NO. OF COND.	COLOR
1	Black
2	Red
3	Brown
4	Blue
5	Orange
6	Yellow

# Multi-Conductor, Shielded, Plenum

NEC Type FPLP, PVDF Jacketed



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOMINAL CAP. * pF/ft	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
C3260	2	18	Solid	0.010	0.25	0.010	0.25	0.149	3.78	50.5	90.8
C3261	4	18	Solid	0.010	0.25	0.010	0.25	0.168	4.27	44.5	80.0
C3270	2	16	Solid	0.010	0.25	0.010	0.25	0.169	4.29	58.0	104.0
C3271	4	16	Solid	0.010	0.25	0.010	0.25	0.194	4.93	50.0	90.0
C3280	2	14	Solid	0.013	0.33	0.010	0.25	0.214	5.44	55.5	100.0
C3284	4	14	Solid	0.013	0.33	0.010	0.25	0.245	6.22	48.0	87.0
C3282	2	12	Solid	0.013	0.33	0.010	0.25	0.234	5.94	65.0	116.0
C3283	4	12	Solid	0.013	0.33	0.010	0.25	0.284	7.21	55.0	99.0

\*A - Capacitance between conductors

\*B - Capacitance between one conductor and other conductors connected to shield

### Color Code Chart

NO. OF COND.	COLOR
1	Black
2	Red
3	Brown
4	Blue

### Product Construction

#### Conductor:

- 18 thru 12 AWG fully annealed solid bare copper per ASTM B-3

#### Insulation:

- Premium-grade, color-coded Flexguard® PVC
- Color code: See chart below

#### Shield:

- 100% Flexfoil® aluminum/polyester foil, 25% overlap, minimum
- Stranded tinned copper drain wire

#### Jacket:

- Fluoropolymer, red
- Temperature range: -10°C to +75°C
- Includes ripcord

### Applications:

- Fire alarm systems
- Voice communications
- Smoke detectors
- Pull boxes
- Suggested voltage rating: 300 volts

### Compliances:

- NEC Article 760 Type FPLP (UL: 75°C, 300V)
- California State Fire Marshall Approved

### Features:

- Abrasion-, chemical-resistant jacket
- Sequentially footage marked

### Packaging:

- Please contact Customer Service for packaging and color options



# Mid-Capacitance, Unshielded, Non-Plenum

## NEC Type FPL for Microprocessor-Controlled Systems

**Product Construction:**

**Conductor:**

- 18 thru 12 AWG fully annealed solid bare copper per ASTM B-3

**Insulation:**

- Premium-grade, color-coded polypropylene
- Color code: See chart below

**Jacket:**

- PVC, red
- Temperature range: -20°C to +60°C

**Applications:**

- Addressable fire alarm systems
- Fire alarm systems
- Voice communications
- Smoke detectors
- Pull boxes
- Suggested voltage rating: 300 volts

**Compliances:**

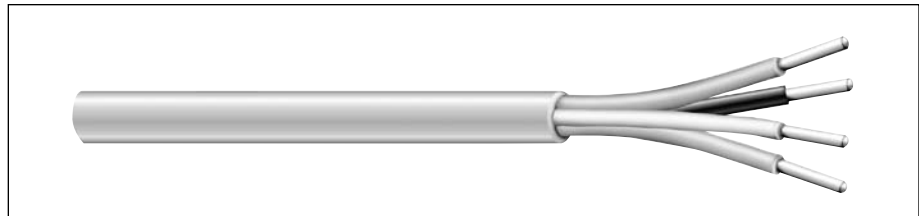
- NEC Article 760 Type FPL (UL: 60°C, 300V)
- California State Fire Marshall Approved
- RoHS Compliant Directive 2002/95/EC
- Passes UL 70,000 BTU Vertical Tray Flame Test

**Features:**

- Red PVC jacket for easy critical circuit identification

**Packaging:**

- Please contact Customer Service for packaging and color options



CATALOG NUMBER	NO. OF COND	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOM.* C-C CAP. pF/ft
				IN	mm	IN	mm	IN	mm	
<b>C0471</b>	2	18	Solid	0.014	0.36	0.020	0.51	0.177	4.50	16.5
<b>C0485</b>	4	18	Solid	0.014	0.36	0.020	0.51	0.205	5.21	16.5
<b>C0473</b>	2	16	Solid	0.016	0.41	0.020	0.51	0.206	5.23	17.5
<b>C0486</b>	4	16	Solid	0.016	0.41	0.020	0.51	0.240	6.10	17.5
<b>C0491</b>	2	14	Solid	0.018	0.46	0.020	0.51	0.240	6.10	18.0
<b>C0492</b>	2	12	Solid	0.020	0.51	0.020	0.51	0.282	7.16	19.0

\*Capacitance between conductors

**Color Code Chart**

NO. OF COND.	COLOR
<b>1</b>	Black
<b>2</b>	Red
<b>3</b>	Brown
<b>4</b>	Blue



# Mid-Capacitance, Shielded, Non-Plenum

NEC Type FPL for Microprocessor-Controlled Systems



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOMINAL CAP. * pF/ft	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
<b>C0472</b>	2	18	Solid	0.014	0.36	0.020	0.51	0.182	4.88	27.0	49.0
<b>C0494</b>	4	18	Solid	0.014	0.36	0.020	0.51	0.210	5.33	24.5	44.0
<b>C0474</b>	2	16	Solid	0.016	0.41	0.020	0.51	0.214	5.44	29.0	52.0
<b>C0495</b>	4	16	Solid	0.016	0.41	0.020	0.51	0.246	6.25	26.0	46.5
<b>C0475</b>	2	14	Solid	0.018	0.46	0.020	0.51	0.245	6.22	31.0	55.5
<b>C0496</b>	4	14	Solid	0.018	0.46	0.020	0.51	0.287	7.29	27.5	49.5
<b>C0476</b>	2	12	Solid	0.020	0.51	0.020	0.51	0.287	7.29	33.0	60.0
<b>C0497</b>	4	12	Solid	0.020	0.51	0.020	0.51	0.337	8.56	29.0	52.5

\*A - Capacitance between conductors

\*B - Capacitance between one conductor and other conductors connected to shield

### Color Code Chart

NO. OF COND.	COLOR
1	Black
2	Red
3	Brown
4	Blue

### Product Construction:

#### Conductor:

- 18 thru 12 AWG fully annealed solid bare copper per ASTM B-3

#### Insulation:

- Premium-grade, color-coded polypropylene
- Color code: See chart below

#### Shield:

- 100% Flexfoil® aluminum/polyester, 25% overlap, minimum
- Stranded tinned copper drain wire

#### Jacket:

- PVC, red
- Temperature range: 0°C to +60°C

### Applications:

- Addressable fire alarm systems
- Fire alarm systems
- Voice communications
- Smoke detectors
- Pull boxes
- Suggested voltage rating: 300 volts

### Compliances:

- NEC Article 760 Type FPL (UL: 60°C, 300V)
- California State Fire Marshall Approved
- RoHS Compliant Directive 2002/95/EC
- Passes UL 70,000 BTU Vertical Tray Flame Test

### Features:

- Red PVC jacket for easy critical circuit identification

### Packaging:

- Please contact Customer Service for packaging and color options

# Mid-Capacitance, Unshielded, Plenum

## NEC Type FPLP for Microprocessor-Controlled Systems

**Product Construction:**

**Conductor:**

- 18 thru 12 AWG fully annealed solid bare copper per ASTM B-3

**Insulation:**

- Premium-grade, color-coded fluoropolymer
- Color code: See chart below

**Jacket:**

- Premium-grade, red Flexguard® PVC
- Temperature range: 0°C to +75°C
- Includes ripcord

**Applications:**

- Addressable fire alarm systems
- Fire alarm systems
- Voice communications
- Smoke detectors
- Pull boxes
- Suggested voltage rating: 300 volts

**Compliances:**

- NEC Article 760 Type FPLP (UL: 75°C, 300V)
- California State Fire Marshall Approved
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

**Features:**

- Red PVC jacket for easy critical circuit identification

**Packaging:**

- Please contact Customer Service for packaging and color options



CATALOG NUMBER	NO. OF COND	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOM.* C-C CAP. pF/ft
				IN	mm	IN	mm	IN	mm	
<b>C3240</b>	2	18	Solid	0.014	0.36	0.015	0.38	0.172	4.37	19.0
<b>C3242</b>	4	18	Solid	0.014	0.36	0.015	0.38	0.195	4.95	19.0
<b>C3241</b>	2	16	Solid	0.016	0.41	0.015	0.38	0.196	4.98	20.0
<b>C3243</b>	4	16	Solid	0.016	0.41	0.015	0.38	0.231	5.87	20.0
<b>C3244</b>	2	14	Solid	0.018	0.46	0.020	0.51	0.242	6.15	20.0
<b>C3245</b>	4	14	Solid	0.018	0.46	0.020	0.51	0.286	7.26	20.0
<b>C3246</b>	2	12	Solid	0.020	0.51	0.020	0.51	0.282	7.16	22.0
<b>C3247</b>	4	12	Solid	0.020	0.51	0.020	0.51	0.333	8.45	22.0

\*Capacitance between conductors

**Color Code Chart**

NO. OF COND.	COLOR
<b>1</b>	Black
<b>2</b>	Red
<b>3</b>	Brown
<b>4</b>	Blue

# Mid-Capacitance, Shielded, Plenum

## NEC Type FPLP for Microprocessor-Controlled Systems



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOMINAL CAP. * pF/ft	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B
<b>C3167</b>	2	18	Solid	0.014	0.36	0.015	0.38	0.172	4.37	31.0	56.0
<b>C3170</b>	4	18	Solid	0.014	0.36	0.015	0.38	0.202	5.13	28.0	50.0
<b>C3168</b>	2	16	Solid	0.016	0.41	0.015	0.38	0.203	5.16	33.0	59.0
<b>C3171</b>	4	16	Solid	0.016	0.41	0.015	0.38	0.238	6.05	29.0	53.0
<b>C3172</b>	2	14	Solid	0.018	0.46	0.020	0.51	0.247	6.27	35.0	63.0
<b>C3173</b>	4	14	Solid	0.018	0.46	0.020	0.51	0.289	7.34	30.0	56.0
<b>C3174</b>	2	12	Solid	0.020	0.51	0.020	0.51	0.289	7.34	38.0	68.0
<b>C3175</b>	4	12	Solid	0.020	0.51	0.020	0.51	0.340	8.64	33.0	60.0

\*A - Capacitance between conductors

\*B - Capacitance between one conductor and other conductors connected to shield

### Color Code Chart

NO. OF COND.	COLOR
1	Black
2	Red
3	Brown
4	Blue

### Product Construction

#### Conductor:

- 18 thru 12 AWG fully annealed solid bare copper per ASTM B-3

#### Insulation:

- Premium-grade, color-coded fluoropolymer
- Color code: See chart below

#### Shield:

- 100% Flexfoil® aluminum/polyester foil, 25% overlap, minimum
- Stranded tinned copper drain wire

#### Jacket:

- Premium-grade, red Flexguard® PVC
- Temperature range: 0°C to +75°C
- Includes ripcord

### Applications:

- Addressable fire alarm systems
- Fire alarm systems
- Voice communications
- Smoke detectors
- Pull boxes
- Suggested voltage rating: 300 volts

### Compliances:

- NEC Article 760 Type FPLP (UL: 75°C, 300V)
- California State Fire Marshall Approved
- Designed to meet NFPA 262 and CSA FT-6 Steiner Tunnel Fire Tests for Plenum Applications

### Features:

- Red PVC jacket for easy critical circuit identification

### Packaging:

- Please contact Customer Service for packaging and color options



# Multi-Paired, Unshielded, Non-Plenum

CSA FAS 105, FPL (UL), NEC Type PLTC

## Product Construction

### Conductor:

- 22 and 18 AWG fully annealed solid bare copper per ASTM B-3

### Insulation:

- Premium-grade, color-coded PVC
- Color code: See page 229 for the CSA Fire Alarm Color Code Chart

### Jacket:

- Premium-grade, red PVC; brown as an option
- Temperature range: -20°C to +105°C
- TRU-Mark® print legend contains footage markings from 1000' to 0'



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.	
				INCHES	mm	INCHES	mm	INCHES	mm

C4328A	3	22	Solid	0.012	0.30	0.042	1.07	0.279	7.09
C4329A	6	22	Solid	0.012	0.30	0.042	1.07	0.350	8.89
C4330A	12	22	Solid	0.012	0.30	0.053	1.35	0.474	12.04
C4331A	15	22	Solid	0.012	0.30	0.053	1.35	0.523	13.28
C4332A	27	22	Solid	0.012	0.30	0.063	1.60	0.672	17.07
C4333A	6	18	Solid	0.015	0.38	0.053	1.35	0.487	12.37

## Applications:

- Wiring of fire alarms
- Smoke alarms
- Voice communications
- Burglar alarms
- Fire protection circuits
- Suggested voltage rating: 300 volts

## Compliances:

- NEC Article 725 PLTC (UL: 105°C, 300V)
- NEC Article 760 Type FPL (UL: 105°C, 300V)
- CSA FAS 105 (CSA: 105°C, 300V)
- C22.2 No. 208-03 (R2008)
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test
- Passes CSA FT-4 Vertical Flame Test

## Packaging:

- Please contact Customer Service for packaging and color options