

Fire Alarm Cables



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 Prysmian'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.

Prysmian CAROL Brand products are conveniently packaged in 1000' or 500' lengths to assist the installer.

Multi-Conductor, Unshielded, Non-Plenum

NEC Type FPLR and CL3R, NEC/CEC Type CMR



| CATALOG NUMBER | NO. OF COND. | AWG SIZE | COND. STRAND | NOM. INSULATION THICKNESS | | NOMINAL O.D. | |
|----------------|--------------|----------|--------------|---------------------------|------|---------------|-------------|
| | | | | in | mm | in | mm |
| E2402S | 2 | 18 | Solid | 0.032 | 0.81 | 0.105 x 0.210 | 2.67 x 5.33 |
| E2404S | 2 | 16 | Solid | 0.032 | 0.81 | 0.115 x 0.230 | 2.92 x 5.84 |
| E2406S | 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. | |
|----------------|--------------|----------|--------------|---------------------------|------|------------------|------|--------------|------|
| | | | | in | mm | in | mm | in | mm |
| E1482S | 2 | 22 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.121 | 3.07 |
| E1484S | 4 | 22 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.140 | 3.56 |
| E1486S | 6 | 22 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.168 | 4.27 |
| E1502S | 2 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.150 | 3.81 |
| E1503S | 3 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.160 | 4.06 |
| E1504S | 4 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.175 | 4.45 |
| E1505S | 5 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.193 | 4.90 |
| E1506S | 6 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.210 | 5.33 |
| E1508S | 8 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.230 | 5.84 |
| E1512S | 2 | 16 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.172 | 4.37 |
| E1514S | 4 | 16 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.202 | 5.13 |
| E1522S* | 2 | 14 | Solid | 0.013 | 0.33 | 0.015 | 0.38 | 0.210 | 5.33 |
| E1524S* | 4 | 14 | Solid | 0.013 | 0.33 | 0.015 | 0.38 | 0.248 | 6.30 |
| E1532S* | 2 | 12 | Solid | 0.013 | 0.33 | 0.015 | 0.38 | 0.244 | 6.20 |
| E1534S* | 4 | 12 | Solid | 0.013 | 0.33 | 0.015 | 0.38 | 0.288 | 7.32 |

* NEC FPLR/CL3R only. Data subject to change.

Product Construction:

Conductor:

- 22 thru 12 AWG fully annealed solid bare copper per ASTM B3

Insulation:

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

Jacket:

- Premium-grade PVC, red
- Suitable for use from -20°C to +105°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: 105°C, 300 V)
- NEC Article 725 Type CL3R (UL: 105°C, 300 V)
- NEC Article 800 Type CMR (UL: 105°C, 300 V)
- Suitable for use in the State of California
- RoHS Compliant Directive 2015/863/EU (RoHS3)

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 | Purple |
| 8 | Gray |

Multi-Conductor, Unshielded, Non-Plenum

CSA FAS105, FPL (UL), NEC Type PLTC

Product Construction:

Conductor:

- 22 thru 12 AWG fully annealed solid bare copper per ASTM B3

Insulation:

- Premium-grade PVC
- Color code: See page 206 for the CSA Fire Alarm Color Code Chart

Jacket:

- Premium-grade PVC, red
- 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, 300 V)
- NEC Article 760 Type FPL (UL: 105°C, 300 V)
- CSA FAS105 (CSA: 105°C, 300 V)
- C22.2 No. 208-03 (R2008) Weather (Sunlight) Resistant (1,000 HR)
- RoHS Compliant Directive 2015/863/EU (RoHS-3)
- Passes CSA FT4 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. | |
|----------------|--------------|----------|--------------|---------------------------|------|------------------|------|--------------|-------|
| | | | | in | mm | in | mm | in | 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 |

Data subject to change.

Multi-Conductor, Shielded, Non-Plenum

NEC Type FPLR and CL3R, NEC/CEC Type CMR



| CATALOG NUMBER | NO. OF COND. | AWG SIZE | COND. STRAND | NOM. INSULATION THICKNESS | | NOM. JACKET WALL | | NOMINAL O.D. | |
|----------------|--------------|----------|--------------|---------------------------|------|------------------|------|--------------|------|
| | | | | in | mm | in | mm | in | mm |
| E2482S | 2 | 22 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.126 | 3.20 |
| E2484S | 4 | 22 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.145 | 3.68 |
| E2502S | 2 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.158 | 4.01 |
| E2503S | 3 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.165 | 4.19 |
| E2504S | 4 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.183 | 4.65 |
| E2506S | 6 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.216 | 5.49 |
| E2508S | 8 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.235 | 5.97 |
| E2522S | 2 | 16 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.180 | 4.57 |
| E2524S | 4 | 16 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.210 | 5.33 |
| E2532S* | 2 | 14 | Solid | 0.013 | 0.33 | 0.015 | 0.38 | 0.218 | 5.54 |
| E2534S* | 4 | 14 | Solid | 0.013 | 0.33 | 0.015 | 0.38 | 0.253 | 6.43 |
| E2542S* | 2 | 12 | Solid | 0.013 | 0.33 | 0.015 | 0.38 | 0.252 | 6.40 |
| E2544S* | 4 | 12 | Solid | 0.013 | 0.33 | 0.015 | 0.38 | 0.293 | 7.44 |

* NEC FPLR/CL3R only.
Data subject to change.

Product Construction:

Conductor:

- 22 thru 12 AWG fully annealed solid bare copper per ASTM B3

Insulation:

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

Shield:

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

Jacket:

- Premium-grade PVC, red
- Temperature range: -20°C to +105°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: 105°C, 300 V)
- NEC Article 725 Type CL3R (UL: 105°C, 300 V)
- NEC Article 800 Type CMR (UL: 105°C, 300 V)
- Suitable for use in the State of California
- RoHS Compliant Directive 2015/863/EU (RoHS-3)

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 | Purple |
| 8 | Gray |

Multi-Conductor, Shielded, Non-Plenum

CSA FAS105, FPL (UL), NEC Type PLTC

Product Construction:

Conductor:

- 18-12 AWG fully annealed, solid bare copper per ASTM B3

Insulation:

- Premium-grade, color-coded PVC
- Color code: See page 206 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 PVC, red
- 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, 300 V)
- NEC Article 760 Type FPL (UL: 105°C, 300 V)
- CSA FAS105 (CSA: 105°C, 300 V)
- C22.2 No. 208-03 (R2008) Weather (Sunlight Resistant (1,000 HR)
- RoHS Compliant Directive 2015/863/EU (RoHS-3)
- Passes CSA FT4 Vertical Flame Test

Packaging:

- Please contact Customer Service for packaging and color options



| CATALOG NUMBER | NO. OF COND. | AWG SIZE | COND. STRAND | DRAIN WIRE AWG | NOM. INSULATION THICKNESS | | NOM. JACKET THICKNESS | | NOMINAL O.D. | |
|----------------|--------------|----------|--------------|----------------|---------------------------|------|-----------------------|------|--------------|-------|
| | | | | | in | mm | in | mm | in | 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 |

Data subject to change.

Multi-Conductor, Unshielded, Plenum

NEC Type FPLP and CL3P, NEC/CEC Type CMP



Product Construction:

Conductor:

- 22 thru 12 AWG fully annealed solid bare copper per ASTM B3

Insulation:

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

Jacket:

- Premium-grade Flexguard® PVC, red
- 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, 300 V)
- NEC Article 725 Type CL3P (UL: 75°C, 300 V)
- NEC Article 800 Type CMP (UL: 75°C, 300 V)
- Suitable for use in the State of California
- RoHS Compliant Directive 2015/863/EU (RoHS-3)

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. | |
|----------------|--------------|----------|--------------|---------------------------|------|------------------|------|--------------|------|
| | | | | in | mm | in | mm | in | mm |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |

* NEC FPLP/CL3P only.
Data subject to change.

COLOR CODE CHART

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



Designed to Meet
NFPA 262 and CSA FT6
Steiner Tunnel Fire Tests
for Plenum Applications

Underwriters Laboratories Inc.



Multi-Conductor, Unshielded, Plenum

NEC/CEC Type CMP and/or NEC Type CL3P and FPLP

Product Construction:

Conductor:

- Stranded or solid bare copper per ASTM B3, B8 and B286

Insulation:

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

Jacket:

- Premium-grade Flexguard® PVC, natural
- Sequential footage markings to facilitate installation
- Temperature range: -20°C to +75°C

Applications:

- Power-limited control circuits
- Wiring of the following systems:
 - Intercom
 - Security
 - Audio
 - Background music
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 725 Type CL3P (UL: 75°C, 150 V)
- NEC Article 800 Type CMP (UL: 75°C, 300 V)
- NEC Article 760 Type FPLP (UL: 75°C, 300 V)
- Suitable for use in the State of California

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. | |
|----------------|--------------|----------|--------------|---------------------------|------|------------------|------|--------------|------|
| | | | | in | mm | in | mm | in | mm |
| E3000S | 2 | 22 | Solid | 0.007 | 0.18 | 0.015 | 0.38 | 0.108 | 2.74 |
| E3001S | 4 | 22 | Solid | 0.007 | 0.18 | 0.015 | 0.38 | 0.124 | 3.15 |
| E3002S | 2 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.120 | 3.05 |
| E3003S | 3 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.127 | 3.23 |
| E3004S | 4 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.139 | 3.53 |
| E3006S | 6 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.164 | 4.17 |
| E3008S | 8 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.178 | 4.52 |
| E3010S | 10 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.194 | 4.92 |
| E3012S | 12 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.211 | 5.36 |
| E3022S | 2 | 20 | 7/28 | 0.009 | 0.23 | 0.015 | 0.20 | 0.134 | 3.40 |
| E3023S | 3 | 20 | 7/28 | 0.009 | 0.23 | 0.015 | 0.20 | 0.142 | 3.61 |
| E3024S | 4 | 20 | 7/28 | 0.009 | 0.23 | 0.015 | 0.20 | 0.156 | 3.96 |
| E3030S | 2 | 18 | Solid | 0.008 | 0.20 | 0.015 | 0.38 | 0.142 | 3.61 |
| E3032S | 2 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.156 | 3.96 |
| E3033S | 3 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.166 | 4.22 |
| E3034S | 4 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.187 | 4.75 |
| E3036S | 6 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.216 | 5.49 |
| E3038S | 8 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.235 | 5.97 |
| E3042S | 2 | 16 | 19/0117 | 0.008 | 0.20 | 0.015 | 0.38 | 0.174 | 4.42 |
| E3043S | 3 | 16 | 19/0117 | 0.008 | 0.20 | 0.015 | 0.38 | 0.185 | 4.70 |
| E3044S | 4 | 16 | 19/0117 | 0.009 | 0.23 | 0.008 | 0.20 | 0.205 | 5.21 |
| E3052S* | 2 | 14 | 19/0147 | 0.011 | 0.28 | 0.015 | 0.38 | 0.216 | 5.49 |
| E3054S* | 4 | 14 | 19/0147 | 0.011 | 0.28 | 0.015 | 0.38 | 0.255 | 6.48 |
| E3062S* | 2 | 12 | 19/0185 | 0.011 | 0.28 | 0.015 | 0.38 | 0.252 | 6.40 |
| E3064S* | 4 | 12 | 19/0185 | 0.011 | 0.28 | 0.015 | 0.38 | 0.298 | 7.57 |

* NEC CL3P/FPLP only
Data subject to change.

COLOR CODE CHART

| NO. OF COND. | COLOR | NO. OF COND. | COLOR | NO. OF COND. | COLOR | NO. OF COND. | COLOR |
|--------------|-------|--------------|-------|--------------|--------|--------------|-------|
| 1 | Black | 4 | Green | 7 | Orange | 10 | Gray |
| 2 | Red | 5 | Brown | 8 | Yellow | 11 | Pink |
| 3 | White | 6 | Blue | 9 | Purple | 12 | Tan |

Multi-Conductor, Shielded, Plenum

NEC/CEC Type CMP and/or NEC Type CL3P and FPLP



Product Construction:

Conductor:

- Stranded or solid bare copper per ASTM B3, B8 and B286

Insulation:

- Premium-grade, color-coded Flexguard® PVC

Shield:

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

Jacket:

- Premium-grade Flexguard® PVC, natural
- Sequential footage markings to facilitate installation
- Temperature range: -20°C to +75°C

Applications:

- Power-limited control circuits
- Wiring of the following systems:
 - Intercom
 - Security
 - Audio
 - Background music
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 725 Type CL3P (UL: 75°C, 150 V)
- NEC Article 800 Type CMP (UL: 75°C, 300 V)
- NEC Article 760 Type FPLP (UL: 75°C, 300 V)
- Suitable for use in the State of California

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. | |
|----------------|--------------|----------|--------------|---------------------------|------|------------------|------|--------------|------|
| | | | | in | mm | in | mm | in | mm |
| E2100S | 2 | 22 | Solid | 0.007 | 0.18 | 0.015 | 0.38 | 0.116 | 2.95 |
| E2102S | 2 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.128 | 3.25 |
| E2103S | 3 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.131 | 3.33 |
| E2104S | 4 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.147 | 3.73 |
| E2106S | 6 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.176 | 4.47 |
| E2108S | 8 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.184 | 4.67 |
| E2110S | 10 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.215 | 5.46 |
| E2112S | 12 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.222 | 5.64 |
| E2122S | 2 | 20 | 7/28 | 0.009 | 0.23 | 0.015 | 0.20 | 0.139 | 3.53 |
| E2123S | 3 | 20 | 7/28 | 0.009 | 0.23 | 0.015 | 0.20 | 0.147 | 3.73 |
| E2124S | 4 | 20 | 7/28 | 0.009 | 0.23 | 0.015 | 0.20 | 0.161 | 4.09 |
| E2200S | 2 | 18 | Solid | 0.008 | 0.20 | 0.015 | 0.38 | 0.148 | 3.76 |
| E2202S | 2 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.164 | 4.17 |
| E2203S | 3 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.169 | 4.29 |
| E2204S | 4 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.185 | 4.70 |
| E2206S | 6 | 18 | 7/26 | 0.010 | 0.25 | 0.008 | 0.20 | 0.218 | 5.54 |
| E2208S | 8 | 18 | 7/26 | 0.010 | 0.25 | 0.008 | 0.20 | 0.237 | 6.02 |
| E2242S | 2 | 16 | 19/0117 | 0.008 | 0.20 | 0.015 | 0.38 | 0.179 | 4.55 |
| E2243S | 3 | 16 | 19/0117 | 0.008 | 0.20 | 0.015 | 0.38 | 0.190 | 4.83 |
| E2244S | 4 | 16 | 19/0117 | 0.008 | 0.20 | 0.015 | 0.38 | 0.209 | 5.31 |
| E2252S* | 2 | 14 | 19/0147 | 0.008 | 0.20 | 0.011 | 0.28 | 0.235 | 5.97 |
| E2254S* | 4 | 14 | 19/0147 | 0.008 | 0.20 | 0.011 | 0.28 | 0.260 | 6.60 |
| E2262S* | 2 | 12 | 19/0185 | 0.008 | 0.20 | 0.011 | 0.28 | 0.257 | 6.53 |
| E2264S* | 4 | 12 | 19/0185 | 0.008 | 0.20 | 0.011 | 0.28 | 0.303 | 7.70 |

* NEC CL3P/FPLP only
Data subject to change.

COLOR CODE CHART

| NO. OF COND. | COLOR | NO. OF COND. | COLOR | NO. OF COND. | COLOR | NO. OF COND. | COLOR |
|--------------|-------|--------------|-------|--------------|--------|--------------|-------|
| 1 | Black | 4 | Green | 7 | Orange | 10 | Gray |
| 2 | Red | 5 | Brown | 8 | Yellow | 11 | Pink |
| 3 | White | 6 | Blue | 9 | Purple | 12 | Tan |

Multi-Conductor, Shielded, Plenum

NEC Type FPLP

Product Construction:

Conductor:

- 22 thru 12 AWG fully annealed solid bare copper per ASTM B3

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 Flexguard® PVC, red
- 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, 300 V)
- NEC Article 725 Type CL3P (UL: 75°C, 300 V)
- NEC Article 800 Type CMP (UL: 75°C, 300 V)
- Suitable for use in the State of California
- Designed to meet NFPA 262 and CSA FT6 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. | |
|----------------|--------------|----------|--------------|---------------------------|------|------------------|------|--------------|------|
| | | | | in | mm | in | mm | in | mm |
| E3542S | 2 | 22 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.126 | 3.20 |
| E3602S | 2 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.158 | 4.01 |
| E3603S | 3 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.165 | 4.19 |
| E3604S | 4 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.183 | 4.65 |
| E3606S | 6 | 18 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.216 | 5.49 |
| E3612S | 2 | 16 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.180 | 4.57 |
| E3614S | 4 | 16 | Solid | 0.010 | 0.25 | 0.015 | 0.38 | 0.210 | 5.33 |
| E3622S | 2 | 14 | Solid | 0.012 | 0.30 | 0.015 | 0.38 | 0.210 | 5.33 |
| E3624S | 4 | 14 | Solid | 0.012 | 0.30 | 0.015 | 0.38 | 0.248 | 6.30 |
| E3632S | 2 | 12 | Solid | 0.012 | 0.30 | 0.015 | 0.38 | 0.252 | 6.40 |
| E3634S | 4 | 12 | Solid | 0.012 | 0.30 | 0.015 | 0.38 | 0.300 | 7.62 |

Data subject to change.

COLOR CODE CHART

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

Multi-Conductor, Unshielded, Riser

NEC/CEC Type CMR and/or NEC Type CL3R and FPLR



Product Construction:

Conductor:

- Stranded or solid bare copper per ASTM B3, B8 and B286

Insulation:

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

Jacket:

- Premium-grade PVC, gray
- Sequential footage markings to facilitate installation
- Temperature range: -20°C to +105°C
- Includes ripcord

Applications:

- Power-limited control circuits
- Wiring of the following systems:
 - Intercom
 - Security
 - Audio
 - Background music
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 725 Type CL3R (UL: 105°C, 150 V)
- NEC Article 800 Type CMR (UL: 105°C, 300 V)
- NEC Article 760 Type FPLR (UL: 105°C, 300 V)
- RoHS Compliant Directive 2015/863/EU (RoHS-3)
- Suitable for use in the State of California

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. | |
|----------------|--------------|----------|--------------|---------------------------|------|------------------|------|--------------|------|
| | | | | in | mm | in | mm | in | mm |
| E1000S | 2 | 22 | Solid | 0.007 | 0.20 | 0.015 | 0.38 | 0.118 | 3.00 |
| E1001S | 4 | 22 | Solid | 0.007 | 0.20 | 0.015 | 0.38 | 0.126 | 3.20 |
| E1002S | 2 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.122 | 3.10 |
| E1003S | 3 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.130 | 3.58 |
| E1004S | 4 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.141 | 3.66 |
| E1006S | 6 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.164 | 4.17 |
| E1008S | 8 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.180 | 4.57 |
| E1010S | 10 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.212 | 5.38 |
| E1012S | 12 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.219 | 5.56 |
| E1022S | 2 | 20 | 7/28 | 0.007 | 0.18 | 0.008 | 0.20 | 0.134 | 3.40 |
| E1023S | 3 | 20 | 7/28 | 0.008 | 0.20 | 0.015 | 0.38 | 0.142 | 3.61 |
| E1024S | 4 | 20 | 7/28 | 0.008 | 0.20 | 0.015 | 0.38 | 0.156 | 3.96 |
| E1030S | 2 | 18 | Solid | 0.008 | 0.20 | 0.015 | 0.38 | 0.144 | 3.66 |
| E1032S | 2 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.154 | 3.91 |
| E1033S | 3 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.163 | 4.14 |
| E1034S | 4 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.180 | 4.57 |
| E1036S | 6 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.216 | 5.49 |
| E1038S | 8 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.245 | 6.22 |
| E1040S | 10 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.282 | 7.16 |
| E1041S | 12 | 18 | 7/26 | 0.009 | 0.23 | 0.015 | 0.38 | 0.291 | 7.39 |
| E1042S | 2 | 16 | 19/0117 | 0.009 | 0.25 | 0.015 | 0.38 | 0.178 | 4.52 |
| E1043S | 3 | 16 | 19/0117 | 0.009 | 0.25 | 0.015 | 0.38 | 0.193 | 4.90 |
| E1044S | 4 | 16 | 19/0117 | 0.009 | 0.25 | 0.015 | 0.38 | 0.210 | 5.33 |
| E1052S* | 2 | 14 | 19/0147 | 0.013 | 0.33 | 0.015 | 0.38 | 0.224 | 5.69 |
| E1054S* | 4 | 14 | 19/0147 | 0.013 | 0.33 | 0.015 | 0.38 | 0.264 | 6.71 |
| E1062S* | 2 | 12 | 19/0185 | 0.013 | 0.33 | 0.015 | 0.38 | 0.260 | 6.60 |
| E1064S* | 4 | 12 | 19/0185 | 0.013 | 0.33 | 0.015 | 0.38 | 0.312 | 7.92 |

* NEC CL3R/FPLR only
Data subject to change.

COLOR CODE CHART

| NO. OF COND. | COLOR | NO. OF COND. | COLOR | NO. OF COND. | COLOR | NO. OF COND. | COLOR |
|--------------|-------|--------------|-------|--------------|--------|--------------|-------|
| 1 | Black | 4 | Green | 7 | Orange | 10 | Gray |
| 2 | Red | 5 | Brown | 8 | Yellow | 11 | Pink |
| 3 | White | 6 | Blue | 9 | Purple | 12 | Tan |



Multi-Conductor, Shielded, Riser

NEC/CEC Type CMR and/or NEC Type CL3R and FPLR

Product Construction:

Conductor:

- Stranded or solid bare copper per ASTM B3, B8 and B286

Insulation:

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

Shield:

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

Jacket:

- Premium-grade PVC, gray
- Sequential footcage markings to facilitate installation
- Temperature range: -20°C to +105°C
- Includes ripcord

Applications:

- Power-limited control circuits
- Wiring of the following systems:
 - Intercom
 - Security
 - Audio
 - Background music
- Suggested voltage rating: 300 volts

Compliances:

- NEC Article 725 Type CL3R (UL: 105°C, 300 V)
- NEC Article 800 Type CMR (UL: 105°C, 300 V)
- NEC Article 760 Type FPLR (UL: 105°C, 300 V)
- RoHS Compliant Directive 2015/863/EU (RoHS-3)
- Suitable for use in the State of California

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. | |
|----------------|--------------|----------|--------------|---------------------------|------|------------------|------|--------------|------|
| | | | | in | mm | in | mm | in | mm |
| E2000S | 2 | 22 | Solid | 0.008 | 0.20 | 0.015 | 0.38 | 0.117 | 2.97 |
| E2002S | 2 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.132 | 3.35 |
| E2003S | 3 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.135 | 3.43 |
| E2004S | 4 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.147 | 3.73 |
| E2006S | 6 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.173 | 4.39 |
| E2008S | 8 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.195 | 4.95 |
| E2010S | 10 | 22 | 7/30 | 0.008 | 0.20 | 0.015 | 0.38 | 0.218 | 5.54 |
| E2012S | 12 | 22 | 7/30 | 0.010 | 0.25 | 0.008 | 0.20 | 0.222 | 5.64 |
| E2022S | 2 | 20 | 7/28 | 0.007 | 0.18 | 0.008 | 0.20 | 0.142 | 3.61 |
| E2023S | 3 | 20 | 7/28 | 0.007 | 0.18 | 0.008 | 0.20 | 0.151 | 3.84 |
| E2024S | 4 | 20 | 7/28 | 0.007 | 0.18 | 0.008 | 0.20 | 0.161 | 4.09 |
| E2030S | 2 | 18 | Solid | 0.009 | 0.20 | 0.008 | 0.20 | 0.147 | 3.73 |
| E2032S | 2 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.159 | 4.04 |
| E2033S | 3 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.168 | 4.27 |
| E2034S | 4 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.184 | 4.67 |
| E2036S | 6 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.221 | 5.61 |
| E2038S | 8 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.240 | 6.10 |
| E2040S | 10 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.287 | 7.29 |
| E2041S | 12 | 18 | 7/26 | 0.008 | 0.20 | 0.015 | 0.38 | 0.296 | 7.52 |
| E2042S | 2 | 16 | 19/0117 | 0.009 | 0.23 | 0.015 | 0.38 | 0.189 | 4.80 |
| E2043S | 3 | 16 | 19/0117 | 0.009 | 0.23 | 0.015 | 0.38 | 0.198 | 5.03 |
| E2044S | 4 | 16 | 19/0117 | 0.009 | 0.23 | 0.015 | 0.38 | 0.219 | 5.56 |
| E2052S* | 2 | 14 | 19/0147 | 0.013 | 0.33 | 0.015 | 0.38 | 0.245 | 6.22 |
| E2054S* | 4 | 14 | 19/0147 | 0.013 | 0.33 | 0.015 | 0.38 | 0.269 | 6.83 |
| E2062S* | 2 | 12 | 19/0185 | 0.013 | 0.33 | 0.015 | 0.38 | 0.281 | 7.14 |
| E2064S* | 4 | 12 | 19/0185 | 0.013 | 0.33 | 0.015 | 0.38 | 0.312 | 7.92 |

* NEC CL3R/FPLR only
Data subject to change.

COLOR CODE CHART 5

| NO. OF COND. | COLOR | NO. OF COND. | COLOR | NO. OF COND. | COLOR | NO. OF COND. | COLOR |
|--------------|-------|--------------|-------|--------------|--------|--------------|-------|
| 1 | Black | 4 | Green | 7 | Orange | 10 | Gray |
| 2 | Red | 5 | Brown | 8 | Yellow | 11 | Pink |
| 3 | White | 6 | Blue | 9 | Purple | 12 | Tan |

Mid-Capacitance, Unshielded, 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. | | NOM.* C-C CAP. pF/ft |
|----------------|--------------|----------|--------------|---------------------------|------|-----------------------|------|--------------|------|----------------------|
| | | | | in | mm | in | mm | in | mm | |
| C0471 | 2 | 18 | Solid | 0.014 | 0.36 | 0.020 | 0.51 | 0.177 | 4.50 | 16.5 |
| C0485 | 4 | 18 | Solid | 0.014 | 0.36 | 0.020 | 0.51 | 0.205 | 5.21 | 16.5 |
| C0473 | 2 | 16 | Solid | 0.016 | 0.41 | 0.020 | 0.51 | 0.206 | 5.23 | 17.5 |
| C0486 | 4 | 16 | Solid | 0.016 | 0.41 | 0.020 | 0.51 | 0.240 | 6.10 | 17.5 |
| C0491 | 2 | 14 | Solid | 0.018 | 0.46 | 0.020 | 0.51 | 0.240 | 6.10 | 18.0 |
| C0492 | 2 | 12 | Solid | 0.020 | 0.51 | 0.020 | 0.51 | 0.282 | 7.16 | 19.0 |

*Capacitance between conductors
Data subject to change.

Product Construction:

Conductor:

- 18 thru 12 AWG fully annealed solid bare copper per ASTM B3

Insulation:

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

Jacket:

- PVC, red
- Temperature range: -20°C to +75°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
- Suitable for use in the State of California
- RoHS Compliant Directive 2015/863/EU (RoHS-3)

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 |

Mid-Capacitance, Shielded, Non-Plenum

NEC Type FPL for Microprocessor-Controlled Systems

Product Construction:

Conductor:

- 18 thru 12 AWG fully annealed solid bare copper per ASTM B3

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: -20°C to +75°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
- Suitable for use in the State of California
- RoHS Compliant Directive 2015/863/EU (RoHS-3)

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. | | NOMINAL CAP. * pF/ft | |
|----------------|--------------|----------|--------------|---------------------------|------|-----------------------|------|--------------|------|----------------------|------|
| | | | | in | mm | in | mm | in | mm | A | B |
| C0472 | 2 | 18 | Solid | 0.014 | 0.36 | 0.020 | 0.51 | 0.182 | 4.88 | 27.0 | 49.0 |
| C0494 | 4 | 18 | Solid | 0.014 | 0.36 | 0.020 | 0.51 | 0.210 | 5.33 | 24.5 | 44.0 |
| C0474 | 2 | 16 | Solid | 0.016 | 0.41 | 0.020 | 0.51 | 0.214 | 5.44 | 29.0 | 52.0 |
| C0495 | 4 | 16 | Solid | 0.016 | 0.41 | 0.020 | 0.51 | 0.246 | 6.25 | 26.0 | 46.5 |
| C0475 | 2 | 14 | Solid | 0.018 | 0.46 | 0.020 | 0.51 | 0.245 | 6.22 | 31.0 | 55.5 |
| C0496 | 4 | 14 | Solid | 0.018 | 0.46 | 0.020 | 0.51 | 0.287 | 7.29 | 27.5 | 49.5 |
| C0476 | 2 | 12 | Solid | 0.020 | 0.51 | 0.020 | 0.51 | 0.287 | 7.29 | 33.0 | 60.0 |
| C0497 | 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
Data subject to change.

COLOR CODE CHART

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

Mid-Capacitance, Unshielded, 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. | | NOM.* C-C CAP. pF/ft |
|----------------|--------------|----------|--------------|---------------------------|------|-----------------------|------|--------------|------|----------------------|
| | | | | in | mm | in | mm | in | mm | |
| C3240 | 2 | 18 | Solid | 0.014 | 0.36 | 0.015 | 0.38 | 0.172 | 4.37 | 19.0 |
| C3242 | 4 | 18 | Solid | 0.014 | 0.36 | 0.015 | 0.38 | 0.195 | 4.95 | 19.0 |
| C3241 | 2 | 16 | Solid | 0.016 | 0.41 | 0.015 | 0.38 | 0.196 | 4.98 | 20.0 |
| C3243 | 4 | 16 | Solid | 0.016 | 0.41 | 0.015 | 0.38 | 0.231 | 5.87 | 20.0 |
| C3244 | 2 | 14 | Solid | 0.018 | 0.46 | 0.020 | 0.51 | 0.242 | 6.15 | 20.0 |
| C3245 | 4 | 14 | Solid | 0.018 | 0.46 | 0.020 | 0.51 | 0.286 | 7.26 | 20.0 |
| C3246 | 2 | 12 | Solid | 0.020 | 0.51 | 0.020 | 0.51 | 0.282 | 7.16 | 22.0 |
| C3247 | 4 | 12 | Solid | 0.020 | 0.51 | 0.020 | 0.51 | 0.333 | 8.45 | 22.0 |

*Capacitance between conductors
Data subject to change.

Product Construction:

Conductor:

- 18 thru 12 AWG fully annealed solid bare copper per ASTM B3

Insulation:

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

Jacket:

- Premium-grade Flexguard® PVC, red
- Temperature range: -20°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, 300 V)
- Suitable for use in the State of California

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 |



Designed to Meet
NFPA 262 and CSA FT6
Steiner Tunnel Fire Tests
for Plenum Applications

Underwriters Laboratories Inc.



Mid-Capacitance, Shielded, Plenum

NEC Type FPLP for Microprocessor-Controlled Systems

Product Construction

Conductor:

- 18 thru 12 AWG fully annealed solid bare copper per ASTM B3

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 Flexguard® PVC, red
- Temperature range: -20°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, 300 V)
- Suitable for use in the State of California

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. | | NOMINAL CAP. * pF/ft | |
|----------------|--------------|----------|--------------|---------------------------|------|-----------------------|------|--------------|------|----------------------|------|
| | | | | in | mm | in | mm | in | mm | A | B |
| C3167 | 2 | 18 | Solid | 0.014 | 0.36 | 0.015 | 0.38 | 0.172 | 4.37 | 31.0 | 56.0 |
| C3170 | 4 | 18 | Solid | 0.014 | 0.36 | 0.015 | 0.38 | 0.202 | 5.13 | 28.0 | 50.0 |
| C3169 | 2 | 16 | Solid | 0.016 | 0.41 | 0.015 | 0.38 | 0.203 | 5.16 | 33.0 | 59.0 |
| C3171 | 4 | 16 | Solid | 0.016 | 0.41 | 0.015 | 0.38 | 0.238 | 6.05 | 29.0 | 53.0 |
| C3172 | 2 | 14 | Solid | 0.018 | 0.46 | 0.020 | 0.51 | 0.247 | 6.27 | 35.0 | 63.0 |
| C3173 | 4 | 14 | Solid | 0.018 | 0.46 | 0.020 | 0.51 | 0.289 | 7.34 | 30.0 | 56.0 |
| C3174 | 2 | 12 | Solid | 0.020 | 0.51 | 0.020 | 0.51 | 0.289 | 7.34 | 38.0 | 68.0 |
| C3175 | 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
Data subject to change.

COLOR CODE CHART

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