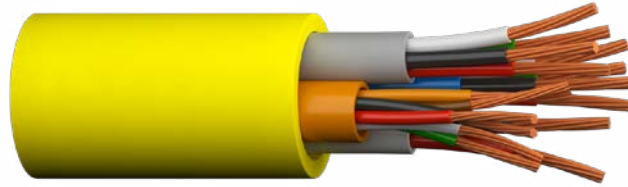


# Sound, Alarm & Security Cable



The sound and security industry in the United States has grown from a simple and unsophisticated business, begun some 45 years ago, to one which has developed technology to the degree that specialized wires and cables are now much in demand.

No longer are the security and sound industries characterized by large electromechanical relays and large contactors; today these circuits incorporate the latest in microprocessors and solid state devices to not only improve functionality but also to guarantee performance.

As a major wire producer, our role is to ensure that the wires and cables that go into these systems are as reliable as the other components...the net result is a fully integrated system which will provide peace of mind to the system user.

Also in this section are Prysmian's CAROL® Brand wire and cable designs suitable for a variety of applications, both in industrial and commercial environments, including telephone systems, intercoms, burglar alarms, business machines and thermostats.

Aside from the quality materials used in these designs, specifiers and 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!

CAROL® Brand designs have proven themselves in the area of sound and security over time; most are fabricated with solid or stranded, bare copper conductors with insulations and jackets of premium grades of PVC. We offer both parallel and cabled designs both with and without shields. Sequential footage markings on the jackets are offered on all products.

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

# Composite Access Control Cable, Plenum

NEC Type CMP, (UL), c(UL)

**Product Construction:**

**Conductor:**

- Stranded bare copper

**Jacket:**

- Flexguard® PVC
- Temperature range: 0°C to +60°C
- Individual elements marked for application (see diagram below)
- Yellow overall jacket

**Shields:**

- Choice between all 4 elements shielded or just the 3-pair element shielded

**Applications:**

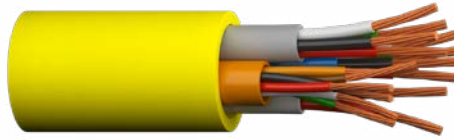
- Security systems
- Access control
- Card reader
- Door control
- REX
- Power-limited controls

**Compliances:**

- NEC Article 800 Type CMP (UL), c(UL)
- RoHS Compliant Directive 2015/863/EU (RoHS-3)

**Packaging:**

- 500' and 1000' reels

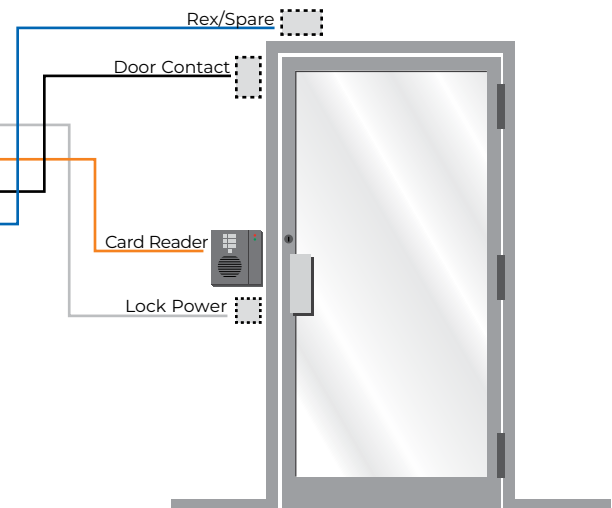


CATALOG NUMBER	OVERALL NOMINAL O.D. INCH (MM)	COMPONENT NO.	COMPONENT DESCRIPTIONS	CONDUCTORS COLOR CODE	COMPONENT NOMINAL O.D. INCH (MM)	INSULATION THICKNESS INCH (MM)
4EPL4S	0.430	1	4 Cond, 18 AWG, Shielded	White, Black, Red, Green	0.180 (4.572)	0.008 (0.2032)
		2	3 Pair, 22 AWG, Shielded	White & Green, Orange & Brown, Red & Black	0.195 (4.593)	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)
4EPLIS	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 (4.593)	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)

Data subject to change.

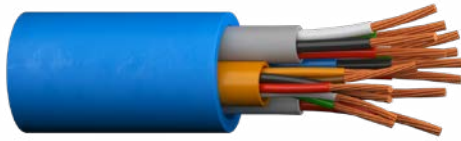
**JACKET COLOR CODING & COMPONENT APPLICATION**

Jacket Color	Component	Cable Type	Application
Gray	1	4 Conductor, 18 AWG	Lock Power
Orange	2	3 Pair, 22 AWG	Card Reader
White	3	2 Conductor, 22 AWG	Door Contact
Blue	4	4 Conductor, 22 AWG	Rex/Spare



# Composite Access Control Cable, Riser

NEC Type CMR, (UL), c(UL)



**Product Construction:**

**Conductor:**

- Stranded bare copper

**Jacket:**

- PVC
- Temperature range: -20°C to +60°C
- Individual elements marked for application (see diagram below)
- Blue overall jacket

**Shields:**

- Choice between all 4 elements shielded or just the 3-pair shielded

**Applications:**

- Security systems
- Access control
- Card reader
- Door control
- REX
- Power-limited controls

**Compliances:**

- NEC Article 800 Type CMR (UL), c(UL)
- RoHS Compliant Directive 2015/863/EU (RoHS-3)

**Packaging:**

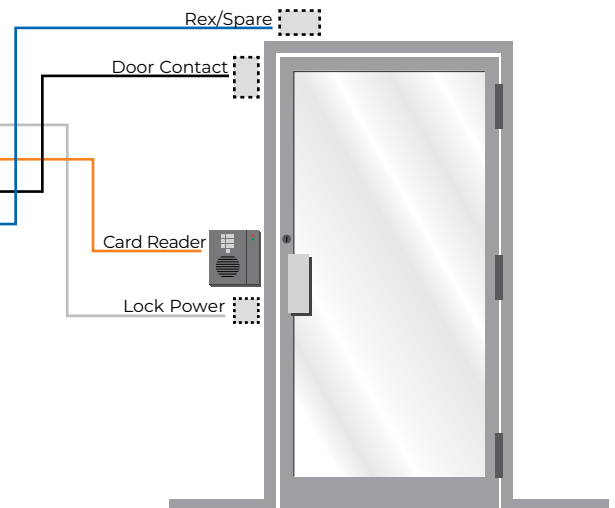
- 500' and 1000' reels

CATALOG NUMBER	OVERALL NOMINAL O.D. INCH (MM)	COMPONENT NO.	COMPONENT DESCRIPTIONS	CONDUCTORS COLOR CODE	COMPONENT NOMINAL O.D. 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 (4.593)	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)
4ERSIS	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 (4.593)	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)

Data subject to change.

**JACKET COLOR CODING & COMPONENT APPLICATION**

Jacket Color	Component	Cable Type	Application
Gray	1	4 Conductor, 18 AWG	Lock Power
Orange	2	3 Pair, 22 AWG	Card Reader
White	3	2 Conductor, 22 AWG	Door Contact
Blue	4	4 Conductor, 22 AWG	Rex/Spare



# 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 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, 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

# 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:**

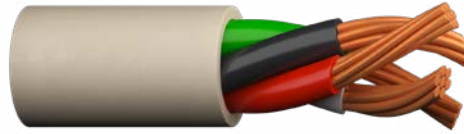
- Power-limited control circuits
- Wiring of the following systems:
  - Intercom
  - Security
  - Audio
  - Background music
- Suggested voltage rating: 300 volts

**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

# Telephone Station/Intercom & Speaker Burglar Alarm

NEC Types CMR or CM/CL2 and CMX-Outdoor

**Product Construction:**

**Conductor:**

- Solid or stranded bare copper per ASTM B3

**Insulation:**

- Semi-rigid, flame-retardant PVC
- Color code: See chart below

**Core:**

- Conductors in a quad configuration (C4412)

**Jacket:**

- Low-temperature, flame-retardant beige PVC (-20°C to +105°C)
- Sequential footage markings
- Cables are suitable for installation with T-18 staples

**Applications:**

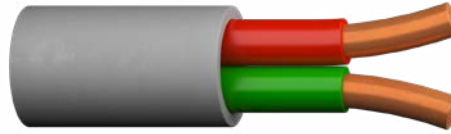
- Intercom systems and speaker extension service
- Suggested voltage rating: 300 volts
- C4413 only: Product is in conformance with TIA 568C, TIA 570B standards and the FCC Part 68 ruling which requires telephone system cables for voice and data services into homes to be at minimum category 3, 2 pr. 22 AWG solid

**Compliances:**

- NEC Article 800 Type CMR/CMX-Indoor/Outdoor; UL Listed (105°C, 300 V)
- C4413 only, Category 3
- 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.	
				in	mm	in	mm	in	mm

**INTERCOM, SPEAKER AND BURGLAR ALARM**

<b>C4408*</b>	2	22	Solid	0.007	0.18	0.020	0.51	0.115	2.92
<b>C4408ST*</b>	2	22	7/0096	0.007	0.18	0.020	0.51	0.125	3.18
<b>C4410</b>	3	22	Solid	0.007	0.18	0.016	0.41	0.118	3.00
<b>C4412*</b>	4	22	Solid	0.007	0.18	0.015	0.38	0.125	3.18
<b>C4412ST*</b>	4	22	7/0096	0.007	0.18	0.015	0.38	0.135	3.43

**COLOR CODE CHART**

NO. OF COND.	COLOR
<b>1</b>	Red
<b>2</b>	Green
<b>3</b>	Yellow
<b>4</b>	Black

**TELEPHONE STATION**

**CATEGORY 3**

CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.	
				in	mm	in	mm	in	mm
<b>C4413</b>	2	24	Solid	0.007	0.18	0.015	0.38	0.145 x 0.095	3.68 x 2.41

Note: Outdoor rating allows cable to be exposed for short distances from the network interface device on the outside of the house to the point where the cable enters the house. This type of cable is not to be buried or direct buried.

Data subject to change.

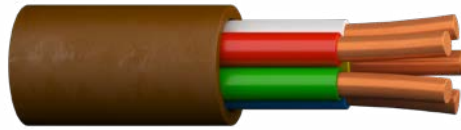
**COLOR CODE CHART (Bandmarked)**

NO. OF COND.	COLOR
<b>1</b>	White-Blue Band Blue
<b>2</b>	White-Orange Band Orange



# Thermostat Wire

60°C 30 Volt CSA Type LVT



## 18 AWG THERMOSTAT WIRE — 30 VOLT — CSA TYPE LVT

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOMINAL INS. THICKNESS		NOMINAL O.D.		APPROX. NET WEIGHT LBS/M <sup>(3)</sup>	STD. CTN.
				in	mm	in	mm		
05092	2	18	Solid	0.016	0.41	0.210	5.33	25	2000'
05093*	3	18	Solid	0.016	0.41	0.220	5.59	33	500'
05094	4	18	Solid	0.016	0.41	0.242	6.15	41	1000'
05095	5	18	Solid	0.016	0.41	0.262	6.65	50	1000'
05096*	6	18	Solid	0.016	0.41	0.280	7.11	60	1000'
05097*	7	18	Solid	0.016	0.41	0.285	7.24	65	1000'
05098	8	18	Solid	0.016	0.41	0.304	7.75	74	1000'
05099*	9	18	Solid	0.016	0.41	0.328	8.33	83	1000'
05091*	10	18	Solid	0.016	0.41	0.360	9.14	92	250'

\* Non-stock item; minimum quantity purchase required.

<sup>(3)</sup> Actual shipping weight may vary.

Data subject to change.

### Product Construction:

#### Conductors:

- 18 AWG annealed solid bare copper per ASTM B3

#### Insulation:

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

#### Jacket:

- Polyvinylchloride (PVC), brown
- Temperature range: -20°C to +60°C

#### Jacket Marking:

- CAROL (SIZE) CSA LL# TYPE LVT FT4

### Applications:

- Thermostat control
- Heating and air conditioning installations
- Touch-plate systems
- Burglar alarms
- Intercom systems
- Door bells
- Annunciator and bell systems
- Remote control units
- Signal systems
- Other low-voltage installations

### Industry Approvals:

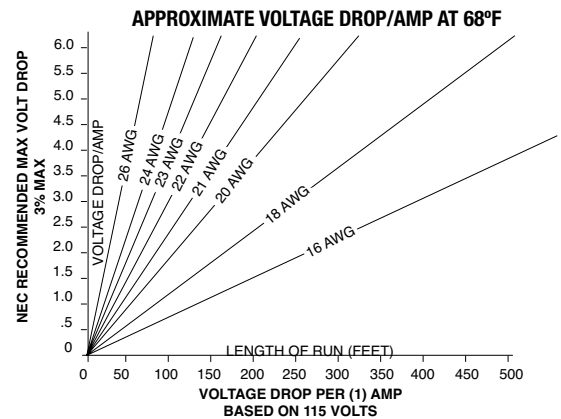
- CSA Type LVT

### Packaging:

- 4- through 10-conductor available on 250' (76.2 m) spools
- 2- and 3-conductor available on 500' (152.4 m) spools
- Other put-ups available on special order

### COLOR CODE CHART

NO. OF COND.	COLOR
2	White, Red
3	White, Red, Green
4	White, Red, Green, Blue
5	White, Red, Green, Blue, Yellow
6	White, Red, Green, Blue, Yellow, Brown
7	White, Red, Green, Blue, Yellow, Brown, Orange
8	White, Red, Green, Blue, Yellow, Brown, Orange, Black
9	White, Red, Green, Blue, Yellow, Brown, Orange, Black, Purple
10	White, Red, Green, Blue, Yellow, Brown, Orange, Black, Purple, Gray



# Thermostat Wire

105°C 150 Volt UL Type CL2

**Product Construction:**

**Conductors:**

- 20 and 18 AWG annealed solid bare copper per ASTM B3

**Insulation:**

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

**Jacket:**

- Polyvinylchloride (PVC), white
- Temperature range: -20°C to +105°C

**Jacket Marking:**

- CAROL AWG TYPE CL2 E# (UL) 105°C SUNLIGHT RESISTANT - MADE IN USA

**Applications:**

- Thermostat control
- Heating and air conditioning installations
- Touch-plate systems
- Burglar alarms
- Intercom systems
- Door bells
- Annunciator and bell systems
- Remote control units
- Signal systems
- Other low-voltage installations

**Industry Approvals:**

- UL Listed Type CL2
- RoHS Compliant

**Packaging:**

- 4- through 10-conductor available on 250' (76.2 m) spools
- 2- and 3-conductor available on 500' (152.4 m) spools
- Other put-ups available on special order



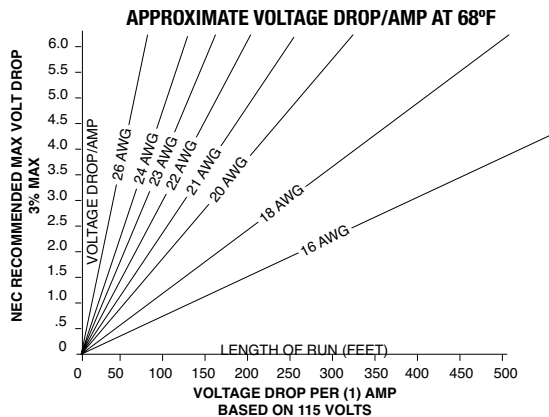
**20 AWG THERMOSTAT WIRE — 150 VOLT — UL TYPE CL2**

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOMINAL INS. THICKNESS		NOMINAL O.D.		APPROX. NET WEIGHT LBS/M <sup>(5)</sup>	STD. CTN.
				in	mm	in	mm		
05482	2	20	Solid	0.008	0.203	0.126	3.20	11	1000'
05483	3	20	Solid	0.008	0.203	0.133	3.38	16	1000'
05484	4	20	Solid	0.008	0.203	0.142	3.61	19	500'
05485	5	20	Solid	0.008	0.203	0.160	4.06	24	500'
05486	6	20	Solid	0.008	0.203	0.175	4.45	27	500'
05487	7	20	Solid	0.008	0.203	0.175	4.45	31	500'
05488	8	20	Solid	0.008	0.203	0.189	4.80	35	500'
05489*	9	20	Solid	0.008	0.203	0.204	5.18	40	500'
05481*	10	20	Solid	0.008	0.203	0.222	5.64	45	250'

**18 AWG THERMOSTAT WIRE — 150 VOLT — UL TYPE CL2**

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOMINAL INS. THICKNESS		NOMINAL O.D.		APPROX. NET WEIGHT LBS/M <sup>(5)</sup>	STD. CTN.
				in	mm	in	mm		
05582	2	18	Solid	0.008	0.203	0.142	3.61	16	1000'
05583	3	18	Solid	0.008	0.203	0.150	3.81	22	1000'
05584	4	18	Solid	0.008	0.203	0.165	4.19	28	500'
05585	5	18	Solid	0.008	0.203	0.181	4.60	36	500'
05586	6	18	Solid	0.008	0.203	0.208	5.28	42	500'
05587	7	18	Solid	0.008	0.203	0.208	5.28	48	500'
05588	8	18	Solid	0.008	0.203	0.225	5.72	54	500'
05589*	9	18	Solid	0.008	0.203	0.243	6.17	61	500'
05581	10	18	Solid	0.008	0.203	0.264	6.71	69	250'

<sup>(5)</sup>Actual shipping weight may vary. Data subject to change.



**COLOR CODE CHART**

NO. OF COND.	COLOR
2	White, Red
3	White, Red, Green
4	White, Red, Green, Blue
5	White, Red, Green, Blue, Yellow
6	White, Red, Green, Blue, Yellow, Brown
7	White, Red, Green, Blue, Yellow, Brown, Orange
8	White, Red, Green, Blue, Yellow, Brown, Orange, Black
9	White, Red, Green, Blue, Yellow, Brown, Orange, Black, Purple
10	White, Red, Green, Blue, Yellow, Brown, Orange, Black, Purple, Gray

# Thermostat Wire, Unjacketed

## 60°C Low Voltage and Intercom Cable



### 20 AWG — TWISTED CONDUCTORS — NO JACKET

CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOMINAL INS. THICKNESS		NOMINAL O.D.		APPROX. NET WEIGHT LBS/M <sup>(5)</sup>	STD. CTN.
				in	mm	in	mm		
05782	2	20	Solid	0.008	0.203	0.096	2.44	7.5	4000'
05783	3	20	Solid	0.008	0.203	0.104	2.64	11.0	2000'
05784*	4	20	Solid	0.008	0.203	0.116	2.95	15.0	2000'
05785*	5	20	Solid	0.008	0.203	0.130	3.30	18.5	1000'
05786*	6	20	Solid	0.008	0.203	0.144	3.66	22.0	1000'
05788*	8	20	Solid	0.008	0.203	0.159	4.04	30.0	1000'

\* Non-stock item; minimum quantity purchase required.

<sup>(5)</sup> Actual shipping weight may vary.  
Data subject to change.

#### Product Construction:

##### Conductors:

- 20 AWG annealed solid bare copper per ASTM B3

##### Insulation:

- Premium-grade, color-coded PVC
- Temperature range: -20°C to +60°C
- Color code: See chart below

##### Jacket:

- This product is unjacketed

#### Applications:

- Thermostat control
- Heating and air conditioning installations
- Touch-plate systems
- Burglar alarms
- Intercom systems
- Door bells
- Annunciator and bell systems
- Remote control units
- Signal systems
- Other low-voltage installations

#### Packaging:

- 4- through 8-conductor available on 250' (76.2 m) spools
- 2- and 3-conductor available on 500' (152.4 m) spools
- Other put-ups available on special order

#### COLOR CODE CHART

NO. OF COND.	COLOR
2	White, Red
3	White, Red, Green
4	White, Red, Green, Blue
5	White, Red, Green, Blue, Yellow
6	White, Red, Green, Blue, Yellow, Brown
7	White, Red, Green, Blue, Yellow, Brown, Orange
8	White, Red, Green, Blue, Yellow, Brown, Orange, Black