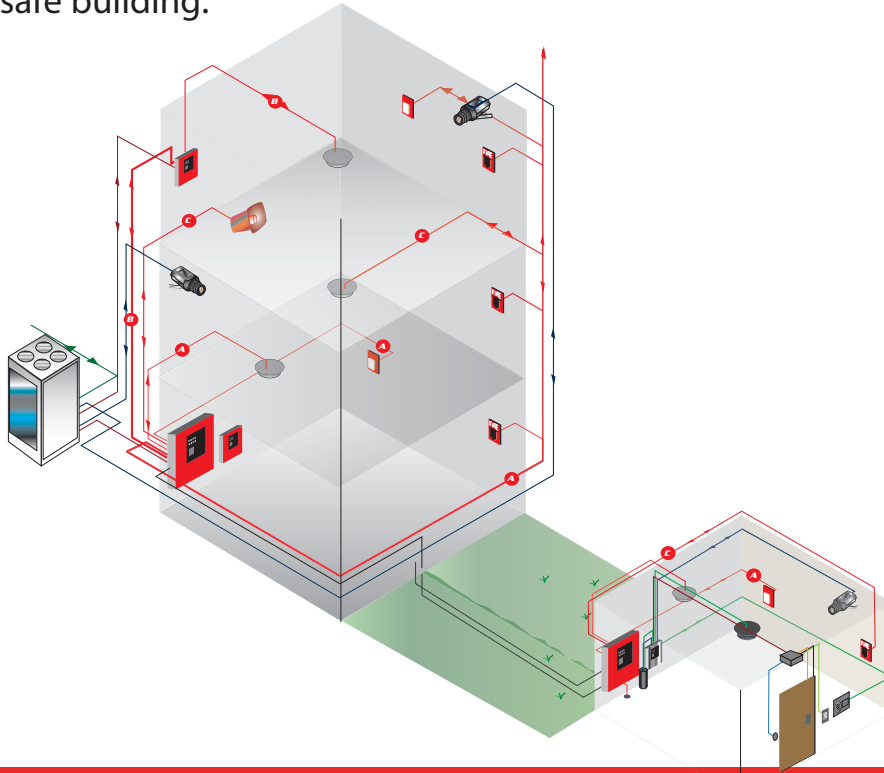


Fire Alarm Cables

Life. Safety. Fire alarm systems serve as life lines to safe and secure buildings. As one of the original manufacturers of fire alarm cable, West Penn Wire knows proper cable selection is critical to effective system performance. With over 100 variations of cable constructions, environmental ratings, colors, and striping options, we have the right fire alarm cable. Match the right cable to system demand and ensure a safe building.



FEATURES

- Solid Conductor Constructions
- Stranded Conductor Constructions
- Power Limited Data Grade Designs
- Available in Multiple Jacket Colors
- Available with Strips
- Circuit Integrity Designs
- Local Law 5 (NYC) Designs
- Indoor/Outdoor Design in Aquaseal Section- pgs. 43-44

NEW: NYC- Local Law 5 Cables
Stranded Conductor Cables

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Fire Alarm Cables

Fire Alarm Cables Power-Limited Multiple Conductor/ Unshielded



Description:

- ASTM bare copper • PVC insulation • Twisted pair or cabled construction • Overall PVC jacket

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Applications:

Indoor for:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|------------------|----------------|
| 980 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | PVC .008 | None | PVC .017 | .146 | FPLR | 29 pf/ft* | RD, BL, WH, YE |
| 982 | 4 | 18 AWG Solid 6.5 Ω/Mft | PVC .008 | None | PVC .017 | .170 | FPLR | 29 pf/ft* | RD, BL, WH, YE |
| 990 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | PVC .008 | None | PVC .017 | .168 | FPLR | 32 pf/ft* | RD, BL, WH, YE |
| 992 | 4 | 16 AWG Solid 4.1 Ω/Mft | PVC .008 | None | PVC .017 | .198 | FPLR | 32 pf/ft* | Red |
| 994 | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | PVC .012 | None | PVC .017 | .210 | FPLR | 35 pf/ft* | RD, BL, WH, YE |
| 700 | 4 | 14 AWG Solid 2.6 Ω/Mft | PVC .012 | None | PVC .017 | .246 | FPLR | 35 pf/ft* | Red |
| 998 | 1 Pair | 12 AWG Solid 1.8 Ω/Mft | PVC .012 | None | PVC .017 | .244 | FPLR | 45 pf/ft* | Red |

Special Notes:

- Selected Plenum Versions see pages 52
- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions see Aquaseal Section pg.43
- Select Items are Packaged in our Advantage Box
- Orange rip cord under jacket

Tracer Marks:

Available upon Request: Minimum Quantities may apply
Example:- On a Red Jacket only

980T-GN

T- Tracer

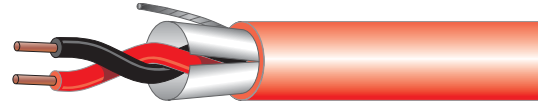
GN- Green Tracer

Color Code- See page 49

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Fire Alarm Cables

Fire Alarm Cables Power-Limited Multiple Conductor/ Shielded



Applications:

Indoor for:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Description:

- ASTM bare copper • PVC insulation • Twisted pair or cabled construction • Overall shield 100% coverage of aluminum polyester foil binders as required with 24 AWG TC drain wire
- Overall PVC jacket

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|------------------------------------|------------------------|--------------------------------|------------------|----------|--------------------------|-------------------|
| 975 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | PVC .008 | Al. Foil 100% | PVC .017 | .150 | FPLR | 73 pf/ft* 133 pf/ft** | RD, BL, WH, YE |
| 977 | 4 | 18 AWG Solid 6.5 Ω/Mft | PVC .008 | Al. Foil 100% | PVC .017 | .180 | FPLR | 73 pf/ft* 133 pf/ft** | Red |
| 991 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | PVC .010 | Al. Foil 100% | PVC .017 | .172 | FPLR | 82 pf/ft* 148 pf/ft** | RD, BL, WH, YE |
| 993 | 4 | 16 AWG Solid 4.1 Ω/Mft | PVC .008 | Al. Foil 100% | PVC .017 | .200 | FPLR | 82 pf/ft* 148 pf/ft** | Red |
| 995 | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | PVC .012 | Al. Foil 100% | PVC .017 | .215 | FPLR | 84 pf/ft* 151 pf/ft** | Red |
| 999 | 1 Pair | 12 AWG Solid 1.8 Ω/Mft | PVC .012 | Al. Foil 100% | PVC .017 | .248 | FPLR | 96 pf/ft* 173 pf/ft** | Red |

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

| Color Code | |
|------------|---|
| All Cables | 1.Black, 2. Red, 3. Brown, 4. Blue |
| | JACKET: RD-Red, BL-Blue, WH- White, YE-Yellow |

Tracer Marks:

Available upon Request: Minimum Quantities may apply
Example:- On a Red Jacket only

975T-GN

T- Tracer

GN- Green Tracer

Special Notes:

- Selected Plenum Versions see pages 53
- Selected Indoor/Outdoor Aquaseal Water Resistant® Versions see Aquaseal Section pg.44
- Select Items are Packaged in our Advantage Box.
- Orange rip cord under jacket
- **STRANDED VERSIONS SEE PAGE 58.**

Fire Alarm Cables

Power-Limited / Unshielded Addressable Systems/ Data Cable



Description:

- ASTM bare copper • Polyolefin insulation • Short overall twist lengths • Unshielded construction • Overall PVC jacket

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Applications:

Indoor data cable for:

- Data Circuits
- Addressable Systems
- Initiating Circuits
- Notification Circuits

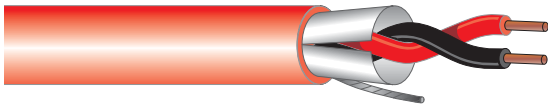
Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|------------------|--------------|
| D980 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | Polyolefin .015 | None | PVC .030 | .182 | FPLR | 16 pf/ft* | Red |
| D990 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | Polyolefin .015 | None | PVC .030 | .223 | FPLR | 18 pf/ft* | Red |

* Capacitance between conductors.

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Power-Limited / Shielded Addressable Systems/ Data Cable



Description:

- ASTM bare copper • Polyolefin insulation • Short overall twist length • Overall shield 100% coverage of aluminum polyester foil with 24 AWG TC drain wire • Overall PVC jacket

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|------------------------------------|------------------------|--------------------------------|------------------|----------|-------------------------|--------------|
| D975 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | Polyolefin .015 | Al. Foil 100% | PVC .030 | .210 | FPLR | 25 pf/ft* 45 pf/ft** | Red |
| D991 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | Polyolefin .015 | Al. Foil 100% | PVC .030 | .226 | FPLR | 30 pf/ft* 54 pf/ft** | Red |
| D995 | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | Polyolefin .020 | Al. Foil 100% | PVC .030 | .262 | FPLR | 30 pf/ft* 54 pf/ft** | Red |

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

| Color Code | |
|------------|------------------------------------|
| All Cables | 1.Black, 2. Red, 3. Brown, 4. Blue |
| | JACKET: Red |

Special Notes:

- Selected Plenum Versions see pages 53
- Orange rip cord under jacket

Fire Alarm Cables

Fire Alarm Cables Power-Limited One & Two Conductor/ Parallel

Applications:

Indoor for:

- Power-Limited Protective Circuits

Description:

- ASTM bare copper • PVC insulation
- Two conductor parallel features- PERFECTSTRIPE®

Rating:

- NEC Type FPL
- (UL) Listed
- Flame Rating: UL1685

Parallel Construction- Two Conductor

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation | Shielding | Jacket Type & Thickness | Nom. O.D. | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|------------------------------|------------------|-----------|-------------------------|-----------|----------|------------------|--------------|
| | | | Type & Thickness | | Inches | | | | |
| 970 | 2 | 18 AWG Solid 6.5 Ω/Mft | PVC .032 | None | -- | .104x.204 | FPL | -- | Red |
| 971 | 2 | 16 AWG Solid 4.1 Ω/Mft | PVC .032 | None | -- | .115x.225 | FPL | -- | Red |
| 972 | 2 | 14 AWG Solid 2.6 Ω/Mft | PVC .032 | None | -- | .128x.250 | FPL | -- | Red |

| Colors | |
|---------------|-----|
| Jacket Colors | Red |

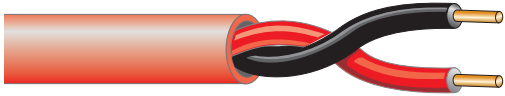
NOTE:

- Additional Colored Jackets are available upon request.
Minimum quantity orders may apply.
- Items are Packaged in our Advantage Box

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Fire Alarm Cables

Fire Alarm Cables Power-Limited/ Unshielded Plenecon II ® Extra Flexible



Description:

- ASTM bare copper • Polymer alloy insulation
- Twisted pair or cabled construction • Flexible plenum jacket

Rating:

- NEC Type FPLP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|------------------|--------------------|
| 60980B | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .008 | None | .015 | .144 | FPLP | 29 pf/ft* | Red |
| 60982B | 4 | 18 AWG Solid 6.5 Ω/Mft | .008 | None | .015 | .166 | FPLP | 29 pf/ft* | Red |
| 60991B | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .008 | None | .015 | .164 | FPLP | 32 pf/ft* | RD, BL, OR, WH, YE |
| 60164B | 4 | 16 AWG Solid 4.1 Ω/Mft | .008 | None | .015 | .191 | FPLP | 32 pf/ft* | Red |
| 60993B | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | .010 | None | .015 | .198 | FPLP | 35 pf/ft* | RD, BL, YE |
| 60700B | 4 | 14 AWG Solid 2.6 Ω/Mft | .010 | None | .015 | .236 | FPLP | 35 pf/ft* | Red |
| 60995B | 1 Pair | 12 AWG Solid 1.8 Ω/Mft | .010 | None | .015 | .239 | FPLP | 45 pf/ft* | Red |

* Capacitance between conductors.

Special Notes:

- Plenum Installation precautions see Technical Reference Section pg.196
- Select Items are Packaged in our Advantage Box
- STRANDED VERSIONS SEE PAGE 58.

Tracer Marks:

Available upon Request: Minimum Quantities may apply

Example:- On a Red Jacket only

60980BT-GN

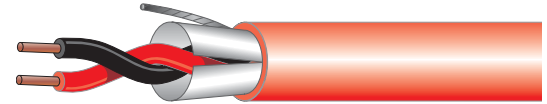
T- Tracer

GN- Green Tracer

| Color Code | |
|------------|---|
| All Cables | 1.Black, 2. Red, 3. Brown, 4. Blue |
| | JACKET: Red RD- Red, BL-Blue, OR-Orange, WH-White, YE- Yellow |

Fire Alarm Cables

Fire Alarm Cables Power-Limited / Shielded Plenecon II® Extra Flexible



Applications:

Indoor within ducts, plenums and other spaces used for environmental air:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Description:

- ASTM bare copper • Polymer Alloy insulation • Twisted pair or cabled construction • Overall shield 100% coverage of aluminum polyester foil with 24 AWG TC drain wire • Flexible plenum jacket

Rating:

- NEC Type FPLP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation | Shielding & % Coverage | Jacket Type & | Nom. O.D. | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|-------------------------|------------------------|------------------|-----------|----------|--------------------------|--------------|
| | | | Type & Thickness Inches | | Thickness Inches | | | | |
| 60975B | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .008 | Al. Foil 100% | .015 | .148 | FPLP | 54 pf/ft* 97 pf/ft** | Red |
| 60977B | 4 | 18 AWG Solid 6.5 Ω/Mft | .008 | Al. Foil 100% | .015 | .170 | FPLP | 54 pf/ft* 97 pf/ft** | Red |
| 60990B | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .008 | Al. Foil 100% | .015 | .168 | FPLP | 61 pf/ft* 110 pf/ft** | Red |
| 603164B | 4 | 16 AWG Solid 4.1 Ω/Mft | .008 | Al. Foil 100% | .015 | .195 | FPLP | 61 pf/ft* 110 pf/ft** | Red |
| 60992B | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | .010 | Al. Foil 100% | .015 | .202 | FPLP | 84 pf/ft* 151 pf/ft** | Red |
| 60994B | 1 Pair | 12 AWG Solid 1.8 Ω/Mft | .010 | Al. Foil 100% | .015 | .243 | FPLP | 96 pf/ft* 173 pf/ft** | Red |

DATA GRADE PLENUM

| | | | | | | | | | |
|-------------|--------|---------------------------|------|---------------|------|------|------|-------------------------|-----|
| D60975 ^ | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .012 | Al. Foil 100% | .015 | .165 | FPLP | 25 pf/ft* 45 pf/ft** | Red |
| D60990 ^ | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .012 | Al. Foil 100% | .015 | .188 | FPLP | 30 pf/ft* 54 pf/ft** | Red |

^ - Data grade versions for addressable systems contain Low Loss Insulation and Overall Flexible Plenum Jacket.

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

| Color Code | |
|------------|------------------------------------|
| All Cables | 1.Black, 2. Red, 3. Brown, 4. Blue |
| | JACKET: Red |

Special Notes:

- Plenum Installation precautions see Technical Reference Section pg.196

Tracer Marks:

Available upon Request: Minimum Quantities may apply Example:- On a Red Jacket only

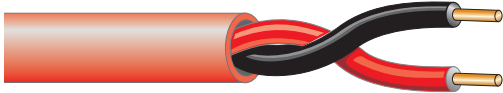
60980BT-GN

T- Tracer

GN- Green Tracer

Fire Alarm Cables

Fire Alarm Cables Local Law 5 (LL5) Power-Limited/ Unshielded



Description:

- ASTM bare copper • Fluoropolymer • Twisted pair or cabled construction • Unshielded • Fluoropolymer jacket- 150 Deg.

Rating:

Power Limited Fire Alarm Cable also classified for use as

Fire Alarm Cable in New York City.

- NEC Type FPLP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test



Applications:

Indoor for:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|------------------|--------------|
| LL5182 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .016 | None | .026 | .190 | FPLP | 29 pf/ft* | Red |
| LL5184 | 4 | 18 AWG Solid 6.5 Ω/Mft | .016 | None | .026 | .175 | FPLP | 29 pf/ft* | Red |
| LL5162 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .016 | None | .026 | .161 | FPLP | 32 pf/ft* | Red |
| LL5164 | 4 | 16 AWG Solid 4.1 Ω/Mft | .016 | None | .026 | .220 | FPLP | 32 pf/ft* | Red |
| LL5142 | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | .016 | None | .026 | .191 | FPLP | 35 pf/ft* | Red |
| LL5144 | 4 | 14 AWG Solid 2.6 Ω/Mft | .016 | None | .026 | .252 | FPLP | 35 pf/ft* | Red |
| LL5122 | 1 Pair | 12 AWG Solid 1.8 Ω/Mft | .016 | None | .026 | .225 | FPLP | 45 pf/ft* | Red |

Special Notes:

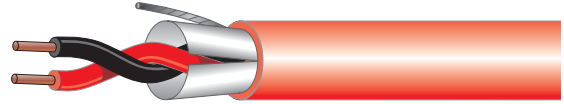
- Orange rip cord under jacket
- Plenum Installation precautions see Technical Reference Section pg.196

| Color Code | |
|------------|-----------------|
| All Cables | 1.Black, 2. Red |
| | JACKET: Red |

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Fire Alarm Cables

Fire Alarm Cables Local Law 5 (LL5) Power Limited/ Shielded



Applications:

Indoor for:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Description:

- ASTM bare copper • Fluoropolymer • Twisted pair or cabled construction • Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Fluoropolymer jacket

Rating:

Power Limited Fire Alarm Cable also classified for use as Fire Alarm Cable in New York City.

- NEC Type FPLP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test



Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type & Thickness | Nom. O.D. | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|------------------------------------|------------------------|-------------------------|-----------|----------|--------------------------|--------------|
| LL5182SH | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | .016 | Al. Foil 100% | .026 | .194 | FPLP | 54 pf/ft* 97 pf/ft** | Red |
| LL5184SH | 4 | 18 AWG Solid 6.5 Ω/Mft | .016 | Al. Foil 100% | .026 | .243 | FPLP | 54 pf/ft* 97 pf/ft** | Red |
| LL5162SH | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | .016 | Al. Foil 100% | .026 | .215 | FPLP | 61 pf/ft* 110 pf/ft** | Red |
| LL5164SH | 4 | 16 AWG Solid 4.1 Ω/Mft | .016 | Al. Foil 100% | .026 | .267 | FPLP | 61 pf/ft* 110 pf/ft** | Red |
| LL5142SH | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | .016 | Al. Foil 100% | .026 | .242 | FPLP | 84 pf/ft* 151 pf/ft** | Red |
| LL5122SH | 1 Pair | 12 AWG Solid 1.8 Ω/Mft | .016 | Al. Foil 100% | .026 | .275 | FPLP | 96 pf/ft* 173 pf/ft** | Red |

* Capacitance between conductors.

** Capacitance between one conductor and the other connected to the shield

| Color Code | |
|------------|------------------------------------|
| All Cables | 1.Black, 2. Red, 3. Brown, 4. Blue |
| | JACKET: Red |

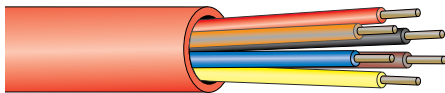
Special Notes:

- Orange rip cord under jacket
- Plenum Installation precautions see Technical Reference Section pg.196

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Fire Alarm Cables

Fire Alarm Cables Nonpower-Limited/ Unshielded



Description:

- ASTM bare copper • PVC insulation with Nylon
- Overall PVC jacket

Rating:

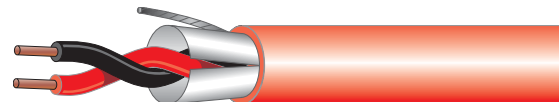
- NEC Type NPLF
- (UL) Listed
- Meets 150V requirements as specified in the NEC
- Flame Rating: UL1685

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness | Shielding | Jacket Type & Thickness | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|------------------------------|-----------|-------------------------|------------------|----------|------------------|--------------|
| | | | Inches | | Inches | | | | |
| 1990 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | PVC .016 Nylon .005 | None | PVC .037 | .252 | NPLF | -- | Red |
| 1994 | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | PVC .016 Nylon .005 | None | PVC .037 | .278 | NPLF | -- | Red |

Rating:

- NEC Type NPLF
- (UL) Listed
- Flame Rating: UL1685



Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness | Shielding & % Coverage | Jacket Type & Thickness | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|------------------------------|------------------------|-------------------------|------------------|----------|--------------------------|--------------|
| | | | Inches | | Inches | | | | |
| 1975 | 1 Pair | 18 AWG Solid 6.5 Ω/Mft | PVC .016 Nylon .005 | Al. Foil 100% | PVC .037 | .244 | NPLF | 52 pf/ft* 94 pf/ft** | Red |
| 1991 | 1 Pair | 16 AWG Solid 4.1 Ω/Mft | PVC .016 Nylon .005 | Al. Foil 100% | PVC .037 | .264 | NPLF | 57 pf/ft* 103 pf/ft** | Red |
| 1995 | 1 Pair | 14 AWG Solid 2.6 Ω/Mft | PVC .016 Nylon .005 | Al. Foil 100% | PVC .037 | .284 | NPLF | 64 pf/ft* 115 pf/ft** | Red |

- * Capacitance between conductors.
- ** Capacitance between one conductor and the other connected to the shield

Special Notes:

- Orange rip cord under jacket

| Color Code | |
|------------|-----------------|
| All Cables | 1.Black, 2. Red |
| | JACKET: Red |

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Fire Alarm Cables

Stranded Conductor Fire Alarm Cables Power-Limited Multiple Conductor/ Unshielded



Description:

- ASTM Stranded bare copper • PVC insulation • Twisted pair or cabled construction • Overall PVC jacket



Applications:

Indoor for:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|------------------|--------------|
| 990S | 1 Pair | 16 AWG Strd. 4.1 Ω/Mft | PVC .009 | None | PVC .017 | .182 | FPLR | 32 pf/ft* | Red |
| 994S | 1 Pair | 14 AWG Strd. 2.6 Ω/Mft | PVC .010 | None | PVC .017 | .224 | FPLR | 35 pf/ft* | Red |
| 998S | 1 Pair | 12 AWG Strd. 1.8 Ω/Mft | PVC .010 | None | PVC .017 | .260 | FPLR | 45 pf/ft* | Red |



Stranded Conductor Fire Alarm Cables Plenum Power-Limited/ Unshielded Standed Conductors Extra Flexible

Description:

- ASTM Stranded bare copper • Polymer alloy insulation
- Twisted pair or cabled construction • Flexible plenum jacket



Applications:

Plenum Indoor for:

- Audio Circuits
- Control Circuits
- Initiating Circuits
- Notification Circuits

Rating:

- NEC Type FPLP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test

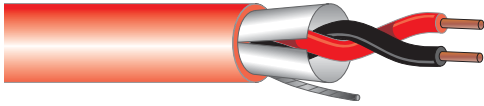
Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|------------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|------------------|--------------|
| 60991BS | 1 Pair | 16 AWG Stranded 4.1 Ω/Mft | .008 | None | .015 | .164 | FPLP | 32 pf/ft* | Red |
| 60993BS | 1 Pair | 14 AWG Stranded 2.6 Ω/Mft | .010 | None | .015 | .198 | FPLP | 35 pf/ft* | Red |
| 60995BS | 1 Pair | 12 AWG Stranded 1.8 Ω/Mft | .010 | None | .015 | .239 | FPLP | 45 pf/ft* | Red |

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Fire Alarm Cables

Stranded Conductor Fire Alarm Cables Power-Limited Multiple Conductor/ Shielded



Description:

- ASTM Stranded bare copper • Polymer Alloy insulation • Twisted pair
- Overall shield 100% coverage of aluminum polyester foil with 24 AWG TC drain wire • Flexible plenum jacket

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666



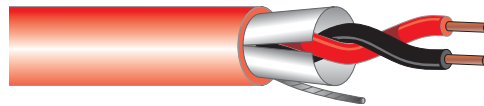
Applications:

- Indoor for:
- Audio Circuits
 - Control Circuits
 - Initiating Circuits
 - Notification Circuits

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|------------------------------|------------------------------------|------------------|--------------------------------|------------------|----------|--------------------------|--------------|
| 995S | 1 Pair | 14 AWG Stranded 2.6 Ω/Mft | PVC .012 | Al. Foil 100% | PVC .017 | .232 | FPLR | 84 pf/ft* 151 pf/ft** | Red |
| 999S | 1 Pair | 12 AWG Stranded 1.8 Ω/Mft | PVC .012 | Al. Foil 100% | PVC .017 | .264 | FPLR | 96 pf/ft* 173 pf/ft** | Red |

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Stranded Conductor Fire Alarm Cables Plenum Power-Limited/ Shielded Stranded Conductors Extra Flexible

Description:

- ASTM Stranded bare copper • Polymer Alloy insulation • Twisted pair
- Overall shield 100% coverage of aluminum polyester foil with 24 AWG TC drain wire • Flexible plenum jacket

Rating:

- NEC Type FPLP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: NFPA-262 Smoke & Flame Test



Applications:

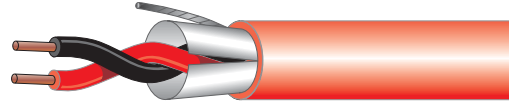
- Plenum Indoor for:
- Audio Circuits
 - Control Circuits
 - Initiating Circuits
 - Notification Circuits

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|------------------------------|------------------------------------|------------------|--------------------------------|------------------|----------|--------------------------|--------------|
| 60990BS | 1 Pair | 16 AWG Stranded 4.1 Ω/Mft | .008 | Al. Foil 100% | .015 | .174 | FPLP | 61 pf/ft* 110 pf/ft** | Red |
| 60992BS | 1 Pair | 14 AWG Stranded 2.6 Ω/Mft | .010 | Al. Foil 100% | .015 | .210 | FPLP | 84 pf/ft* 151 pf/ft** | Red |
| 60994BS | 1 Pair | 12 AWG Stranded 1.8 Ω/Mft | .010 | Al. Foil 100% | .015 | .249 | FPLP | 96 pf/ft* 173 pf/ft** | Red |

Fire Alarm Cables

Circuit Integrity in Conduit/ Shielded (CIC) - Riser Rated



Applications:

Indoor for:

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability

Description:

- ASTM bare copper • Ceramifiable Silicon Rubber (CSR) Insulation • Twisted pair or cabled construction • Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Overall FRPE Low-Smoke, Non-Halogen Jacket

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V requirements as specified in the NEC - 105°C
- Flame Rating: UL1666, UL2196 - 2 Hour Flame Test (in conduit only)

Standard spool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|------------------------------|------------------------------------|------------------------|--------------------------------|------------------|----------|------------------|--------------|
| 5200FZ | 2 | 16 AWG 7x24 4.0 Ω/Mft | CSR .035 | Al. Foil 100% | FRPE .056 | .37 | FPLR | 22pf/ft* | Red |
| 5220FZ | 2 | 16 AWG Solid 4.0 Ω/Mft | CSR .035 | Al. Foil 100% | FRPE .056 | .36 | FPLR | 20pf/ft* | Red |
| 5222FZ | 4 | 16 AWG Solid 4.0 Ω/Mft | CSR .035 | Al. Foil 100% | FRPE .056 | .41 | FPLR | 16pf/ft* | Red |
| 5100FZ | 2 | 14 AWG 7x22 2.5 Ω/Mft | CSR .035 | Al. Foil 100% | FRPE .056 | .41 | FPLR | 26pf/ft* | Red |
| 5120FZ | 2 | 14 AWG Solid 2.5 Ω/Mft | CSR .035 | Al. Foil 100% | FRPE .056 | .38 | FPLR | 23pf/ft* | Red |
| 5000FZ | 2 | 12 AWG 7x20 1.6 Ω/Mft | CSR .035 | Al. Foil 100% | FRPE .056 | .44 | FPLR | 27pf/ft* | Red |

* Capacitance between conductors.

| Color Code | |
|------------|--|
| All Cables | Black, Red- 4 or more are Black and numbered |
| | JACKET: Red |

Special Notes:

- CSR- Ceramifiable Silicon Rubber
- FRPE- Flame Retardant Polyethylene
- CIC Cables have been tested to pass the 2 hour UL2196 Flame test in conduit. CIC cables can not be deployed outside the conduit and maintain a CI rating.

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Fire Alarm Cables

Circuit Integrity in Conduit/ Unshielded Riser Rated - (CIC)



Description:

- ASTM bare copper • Ceramifiable Silicon Rubber (CSR) Insulation • Twisted pair or cabled construction
- Overall FRPE Low-Smoke, Non-Halogen Jacket

Rating:

- NEC Type FPLR
- (UL) Listed
- Meets 300V requirements as specified in the NEC - 105°C
- Flame Rating: UL 1666, UL2196 - Two Hour Flame Test (in conduit only)

Applications:

- Indoor for:
- Circuit Integrity
 - Fire Alarm Circuit Integrity
 - Survivability

Standard pool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|------------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|------------------|--------------|
| 5200UZ | 2 | 16 AWG 7x24 4.0 Ω/Mft | CSR .035 | None | FRPE .056 | .37 | FPLR | 16pf/ft* | Red |
| 5220UZ | 2 | 16 AWG Solid 4.0 Ω/Mft | CSR .035 | None | FRPE .056 | .35 | FPLR | 15pf/ft* | Red |
| 5100UZ | 2 | 14 AWG 7x22 2.5 Ω/Mft | CSR .035 | None | FRPE .056 | .40 | FPLR | 18pf/ft* | Red |
| 5120UZ | 2 | 14 AWG Solid 2.5 Ω/Mft | CSR .035 | None | FRPE .056 | .38 | FPLR | 17pf/ft* | Red |

* Capacitance between conductors.

Special Notes:

- CSR- Ceramifiable Silicon Rubber
- FRPE- Flame Retardant Polyethylene
- CIC Cables have been tested to pass the 2 hour UL2196 Flame test in conduit. CIC cables can not be deployed outside the conduit and maintain a CI rating.

| Color Code | |
|------------|-------------|
| All Cables | Black, Red |
| | JACKET: Red |

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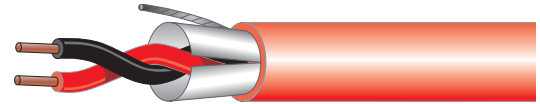
Fire Alarm Cables

Circuit Integrity/ Shielded (CI) - Riser Rated

Applications:

Indoor for:

- Circuit Integrity
- Fire Alarm Circuit Integrity
- Survivability



Description:

- ASTM bare copper • Ceramifiable Silicon Rubber (CSR) Insulation • Twisted pair or cabled construction
- Overall shield 100% coverage of aluminum polyester foil with TC drain wire • Overall FRPE Low-Smoke, Non Halogen Jacket

Rating:

- NEC Type FPLR-CI
- (UL) Listed
- Meets 300V requirements as specified in the NEC - 105°C
- Flame Rating: UL1666, UL2196 - 2 Hour Flame Test

Standard pool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding & % Coverage | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|------------------------------------|------------------------|--------------------------------|------------------|----------|------------------|--------------|
| 5320FM | 2 | 18 AWG Solid 5.9 Ω/Mft | CSR .034 | Al. Foil 100% | FRPE .045 | .31 | FPLR-CI | 27pf/ft* | Red |
| 5322FM | 4 | 18 AWG Solid 5.9 Ω/Mft | CSR .034 | Al. Foil 100% | FRPE .045 | .36 | FPLR-CI | 27pf/ft* | Red |
| 5300FM | 2 | 18 AWG 7x26 5.9 Ω/Mft | CSR .034 | Al. Foil 100% | FRPE .045 | .32 | FPLR-CI | 27pf/ft* | Red |
| 5302FM | 4 | 18 AWG 7x26 5.9 Ω/Mft | CSR .034 | Al. Foil 100% | FRPE .045 | .37 | FPLR-CI | 27pf/ft* | Red |
| 5220FM | 2 | 16 AWG Solid 4.0 Ω/Mft | CSR .034 | Al. Foil 100% | FRPE .045 | .33 | FPLR-CI | 31pf/ft* | Red |
| 5222FM | 4 | 16 AWG Solid 4.0 Ω/Mft | CSR .034 | Al. Foil 100% | FRPE .045 | .38 | FPLR-CI | 31pf/ft* | Red |
| 5200FM | 2 | 16 AWG 7x24 4.0 Ω/Mft | CSR .034 | Al. Foil 100% | FRPE .045 | .35 | FPLR-CI | 31pf/ft* | Red |
| 5120FM | 2 | 14 AWG Solid 2.5 Ω/Mft | CSR .034 | Al. Foil 100% | FRPE .045 | .36 | FPLR-CI | 33pf/ft* | Red |
| 5122FM | 4 | 14 AWG Solid 2.5 Ω/Mft | CSR .034 | Al. Foil 100% | FRPE .045 | .41 | FPLR-CI | 33pf/ft* | Red |
| 5100FM | 2 | 14 AWG 7x22 2.5 Ω/Mft | CSR .034 | Al. Foil 100% | FRPE .045 | .38 | FPLR-CI | 33pf/ft* | Red |
| 5020FM | 2 | 12 AWG Solid 1.6 Ω/Mft | CSR .034 | Al. Foil 100% | FRPE .045 | .39 | FPLR-CI | 37pf/ft* | Red |
| 5022FM | 4 | 12 AWG Solid 1.6 Ω/Mft | CSR .034 | Al. Foil 100% | FRPE .045 | .46 | FPLR-CI | 37pf/ft* | Red |

Notes: Color Code Pg. 60

* Capacitance between conductors.

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Fire Alarm Cables



Description:

- ASTM bare copper • Ceramifiable Silicon Rubber (CSR) Insulation • Twisted pair or cabled construction
- Overall FRPE Low-Smoke, Non-Halogen Jacket

Rating:

- NEC Type FPLR-CI
- (UL) Listed
- Meets 300V requirements as specified in the NEC - 105°C
- Flame Rating: UL 1666, UL2196- Two Hour Flame Test

Standard spool size 1000ft.

Circuit Integrity / Unshielded Riser Rated - (CI)

Applications:

- Indoor for:
 - Circuit Integrity
 - Fire Alarm Circuit Integrity
 - Survivability

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness Inches | Nom. O.D. Inches | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|------------------------------------|-----------|--------------------------------|------------------|----------|------------------|--------------|
| 5320UM | 2 | 18 AWG Solid 5.9 Ω/Mft | CSR .034 | None | FRPE .045 | .31 | FPLR-CI | 17pf/ft* | Red |
| 5322UM | 4 | 18 AWG Solid 5.9 Ω/Mft | CSR .034 | None | FRPE .045 | .35 | FPLR-CI | 17pf/ft* | Red |
| 5220UM | 2 | 16 AWG Solid 4.0 Ω/Mft | CSR .034 | None | FRPE .045 | .33 | FPLR-CI | 19pf/ft* | Red |
| 5222UM | 4 | 16 AWG Solid 4.0 Ω/Mft | CSR .034 | None | FRPE .045 | .38 | FPLR-CI | 19pf/ft* | Red |
| 5120UM | 2 | 14 AWG Solid 2.5 Ω/Mft | CSR .034 | None | FRPE .045 | .36 | FPLR-CI | 21pf/ft* | Red |
| 5122UM | 4 | 14 AWG Solid 2.5 Ω/Mft | CSR .034 | None | FRPE .045 | .41 | FPLR-CI | 21pf/ft* | Red |
| 5020UM | 2 | 12 AWG Solid 1.6 Ω/Mft | CSR .034 | None | FRPE .045 | .39 | FPLR-CI | 23pf/ft* | Red |
| 5022UM | 4 | 12 AWG Solid 1.6 Ω/Mft | CSR .034 | None | FRPE .045 | .45 | FPLR-CI | 23pf/ft* | Red |

* Capacitance between conductors.

Special Notes:

- CSR- Ceramifiable Silicon Rubber
- FRPE- Flame Retardant Polyethylene
- CI Cables have been tested to pass the 2 hour UL2196 Flame test not in conduit. CI rated cables can not be deployed in conduit and maintain a CI rating.

| Color Code | |
|------------|--|
| All Cables | Black, Red- 4 or more are Black and numbered |
| | JACKET: Red |

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