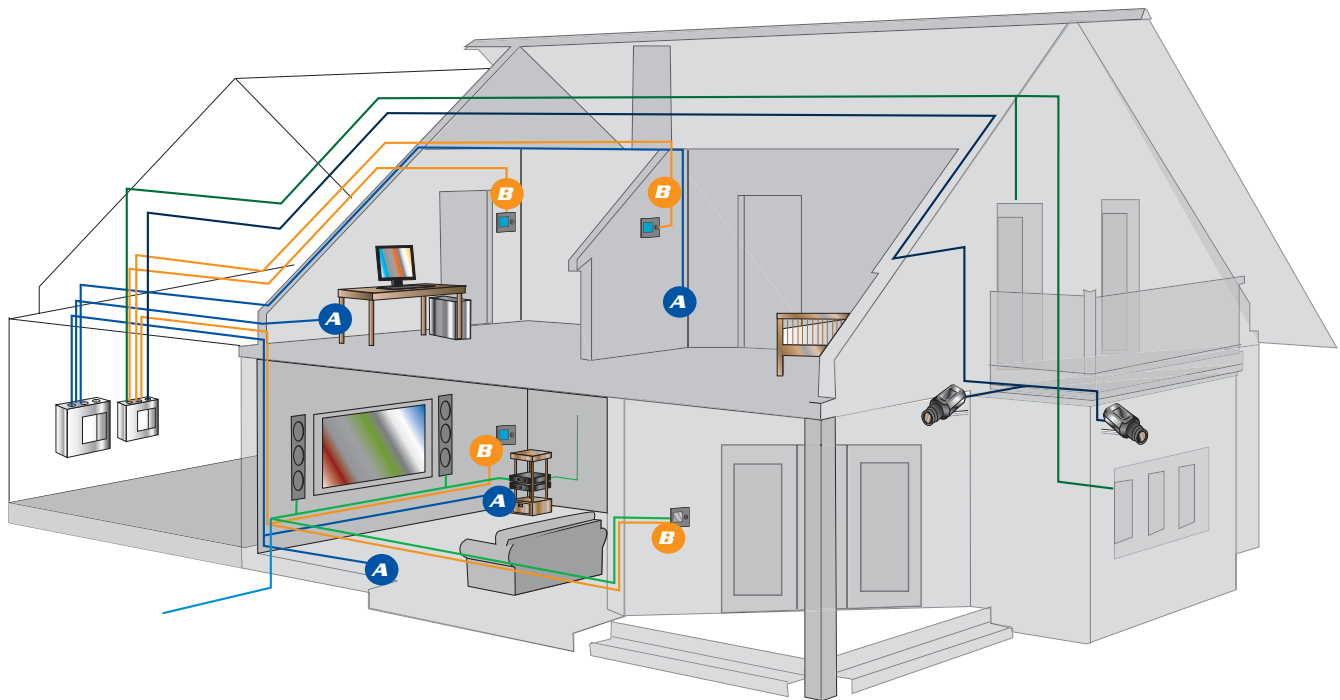


# Residential & Media Control Cables

**In the home.** Low voltage install cables are commonly linked to expansive commercial developments. The reality is more residential properties are requiring structured cables that exceed the TIA/EIA 570 Standards. West Penn Wire meets the need through home structured cabling, media control, high flex speaker cables and keypad audio control cables.



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## FEATURES

- Flexible Home speaker design
- Media Control - Crestnet- AMX
- Elan cable design
- Multiple constructed Home network
- Installation tools

**New:** Flexible Speaker Cables

## **HOME AUTOMATION**

The interoperation of devices and sub-systems in the home (based on events, schedules, user action etc.) to increase the safety, convenience, or comfort of the home.

### **HOME AUTOMATION SUB-SYSTEMS**

- RESIDENTIAL STRUCTURED CABLING SYSTEM (RSCS)
- Telecommunications • Automation
- Entertainment • Security

### **TELECOMMUNICATIONS:**

- Voice, Data, Video  
High performance structured cabling systems are comprised of high grade cabling.
- Twisted pair - Voice and Data applications
- Coaxial Cables - Video and Data applications
- Optical Fibers- Multimedia applications

The residential cabling system is based on the TIA/EIA 570-A Residential Telecommunication Standard. The residential services are correlated to grades of cabling. There are two defined grades of cabling,

- Grade 1
- Grade 2

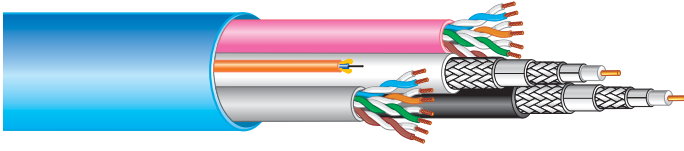
**GRADE 1** provides a generic cabling system that meets the minimum requirements for telecommunication services.

| <b>Services</b>   | <b>Grade 1</b>   |
|-------------------|--|
| Telephone         | X  |
| Television        | X  |
| Data              | Limited  |
| Multimedia        | No   |
| <b>Cabling</b>    | <b>Grade 1</b>   |
| 4 pair UTP        | Category 3 - Category 5 (Recommended)<br>Category 5E (strongly recommended)          |
| 75Ω Coaxial Cable | RG59/u - RG6/U dual shield (Recommended)<br>RG6/u Quad shield (strongly recommended) |

**GRADE 2** provides a generic cabling system that meets the requirements for basic, advanced and multimedia telecommunication services.

| <b>Services</b>   | <b>Grade 2</b>   |
|-------------------|--|
| Telephone         | X  |
| Television        | X  |
| Data              | X  |
| Multimedia        | X  |
| <b>Cabling</b>    | <b>Grade 2</b>   |
| 4 pair UTP        | Category 3 - Category 5 (Recommended)<br>(strongly recommended)                      |
| Category 5E       |  |
| 75Ω Coaxial Cable | RG59/u - RG6/U dual shield (Recommended)<br>RG6/u Quad shield (strongly recommended) |
| Optical Fiber     | Multimode or Singlemode  |

# Home Network Cables



## HomeNetworking Composite Cable Hybrid structured Cabling

### Applications:

Indoor for:

- Home Entertainment
- Home Structured Cabling
- TIA-EIA 570-A Residential Standard

### Description:

- RG6/U Type Coaxial Cables • 4 pair 24 Awg. Category 5E or 4 pair 24 Awg. Category 6 • 62.5/125µm Fiber Optic

### Rating:

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

Standard spool size 1000ft.

| Catalog No.           | Cable Description  | Overall Jacket & Cable O.D. |                      |
|-----------------------|--|-----------------------------|----------------------|
|                       |  | Inches                      | Jacket Color         |
| HN5161<br>CM          | 1- RG6/U Quad-Shielded Coax Cable<br>1- 4 Pair Category 5E Cable   | PVC Jkt.<br>.525            | Blue                 |
| HN5261<br>CM          | 1- RG6/U Quad-Shielded Coax Cable<br>2- 4 Pair Category 5E Cable   | PVC Jkt.<br>.585            | Blue                 |
| HN5262<br>CM          | 2- RG6/U Quad-Shielded Coax Cable<br>2- 4 Pair Category 5E Cable   | PVC Jkt.<br>.620            | Blue                 |
| HN5262F<br>CM         | 2- RG6/U Quad-Shielded Coax Cable<br>2- 4 Pair Category 5E Cable<br>2- 62.5/125µm Multi-Mode Fiber Optic Cable | PVC Jkt.<br>.660            | Blue                 |
| LSHN5262<br>CM        | 2- RG6/U Quad-Shielded Coax Cable<br>2- 4 Pair Category 5E Cable   | .610                        | Lickity Split Design |
| LSHN6262<br>CM<br>New | 2- RG6/U Quad-Shielded Coax Cable<br>2- 4 Pair Category 6 Cable  | .620                        | Lickity Split Design |

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# Speaker Cables



## Description:

- ASTM Bare Copper • PVC insulation • Short overall twist lengths
- Overall PVC jacket
- HA208- utilizes Polyolefin insulation

## Rating:

- NEC Type CL2
- (UL) Listed
- Flame Rating: UL1685



## Home Speaker Cable

**Two Conductor / Unshielded**

### Applications:

Indoor for:

- Home Entertainment
- Sound and Audio
- Background Music
- Power-limited Control Circuits

Standard pool size 1000ft.

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R.    | Insulation Type & Thickness Inches | Shielding | Jacket Type & Thickness |        | NEC Type | Nom. Capacitance | Jacket Color        |
|-------------|--------------|---------------------------------|------------------------------------|-----------|-------------------------|--------|----------|------------------|---------------------|
|             |              |                                 |                                    |           | Inches                  | Inches |          |                  |                     |
| HA225       | 2            | 16 AWG (65x34) BC<br>4.02 Ω/Mft | PVC .015                           | None      | PVC .025                | .199   | CM       | --               | White, Blue & Black |
| HA226       | 2            | 14 AWG (65x32) BC<br>2.58 Ω/Mft | PVC .015                           | None      | PVC .025                | .250   | CL3      | --               | White, Black        |
| HA227       | 2            | 12 AWG (65x30) BC<br>1.7 Ω/Mft  | PVC .015                           | None      | PVC .025                | .280   | CL3      | --               | White, Black        |
| HA210       | 2            | 10 AWG (65x28) BC<br>1.1 Ω/Mft  | PVC .012                           | None      | PVC .020                | .280   | CL2      | --               | Gray                |

| Color Code         |                               |
|--------------------|-------------------------------|
| Catalog No.        | HA225A, HA226A, HA227A, HA210 |
| Primary Color Code | Black, Red                    |

## Speaker Level Audio Connectors

| Banana and Binding Post Connectors |                             |
|------------------------------------|-----------------------------|
| Catalog No.                        | Description                 |
| 19-1239                            | Banana Red                  |
| 19-1240                            | Banana Black                |
| CN-MDP8                            | Banana Plug (8 Awg.) Double |
| CN-BPX-24B                         | Binding Post with Red,Black |



| Speakon Cable Mt. Female SPX |                    |
|------------------------------|--------------------|
| Catalog No.                  | Description        |
| CN-NL4FX                     | 4 Pole, SPX Gray   |
| CN-NL4FX2                    | 4 Pole, SPX Red    |
| CN-NL4FX4                    | 4 Pole, SPX Yellow |
| CN-NL4FX5                    | 4 Pole, SPX Green  |
| CN-NL4FX9                    | 4 Pole, SPX White  |

| Speakon Audio Adapter |                             |
|-----------------------|-----------------------------|
| Catalog No.           | Description                 |
| CN-NL4MMX             | 4 Pole Male to Male Adapter |

| Speakon Cable Mt. Female Standard |                  |
|-----------------------------------|------------------|
| Catalog No.                       | Description      |
| CN-NL4FC                          | 4 Pole, Standard |

CN-NL4MMX

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# Speaker Cables

## Home Speaker Cable Four Conductor / Unshielded

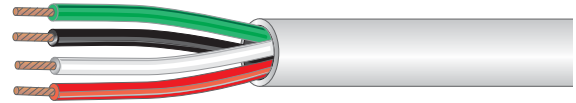
### Applications:

Indoor for:

- Home Entertainment
- Sound and Audio
- Background Music
- Power-limited Control Circuits



Standard pool size 1000ft.



### Description:

- ASTM Bare Copper • PVC insulation • Cabled Construction
- Overall PVC jacket

### Rating:

- NEC Type CL2
- (UL) Listed
- Flame Rating: UL1685

| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R     | Insulation Type & Thickness | Shielding | Jacket Type & Thickness | Nom. O.D. | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|---------------------------------|-----------------------------|-----------|-------------------------|-----------|----------|------------------|--------------|
|             |              |                                 | Inches                      |           | Inches                  |           |          |                  |              |
| HA245       | 4            | 16 AWG (65x34) BC<br>4.02 Ω/Mft | PVC<br>.015                 | None      | PVC<br>.025             | .242      | CM       | --               | White        |
| HA246       | 4            | 14 AWG (65x32) BC<br>2.58 Ω/Mft | PVC<br>.015                 | None      | PVC<br>.025             | .307      | CL3      | --               | White        |

| Color Code         |                          |
|--------------------|--------------------------|
| Catalog No.        | HA245A, HA246A           |
| Primary Color Code | Black, Red, White, Green |

## Keypad with Volume Controls

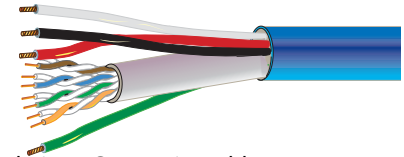
### Rating:

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

Standard pool size 1000ft.

### Description:

- ASTM Bare Copper • PVC Insulation • Composite cable construction • 4 Pair 24 Awg. Category 5E cable + 4 conductor 16 AWG • Overall Blue PVC jacket



| Catalog No. | No. of Cond. | Conductor Type & Nom. D.C.R | Insulation Type & Thickness | Shielding | Jacket Type & Thickness | Nom. O.D. | NEC Type | Nom. Capacitance | Jacket Color |
|-------------|--------------|-----------------------------|-----------------------------|-----------|-------------------------|-----------|----------|------------------|--------------|
|             |              |                             | Inches                      |           | Inches                  |           |          |                  |              |
| HA1624      | 4 Cond.      | 16 AWG (65x34)              | .015                        | None      | PVC<br>.020             | .385      | CM       | --               | Blue         |
|             | 4 Pair       | 24 AWG Solid                | .008                        | None      |                         |           |          |                  |              |

| Color Code |  |
|------------|--|
| 4 Cond.    | 1. Black, 2. Red, 3. White, 4. Green   |
| 4 Pair     | 1. Blue/ White-Blue, 2. Orange/ White-Orange, 3. Green/ White-Green, 4. Brown/ White-Brown |

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# Media Control Cables

## Media Control Cable Specialized Control Systems

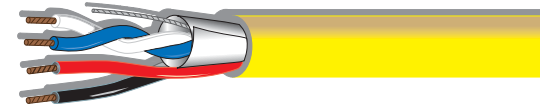
### Applications:

Indoor for:

- Home Control Systems
- Commercial Control Systems
- Sound and Audio

### Rating:

- NEC Type CMR and CMP
- (UL) C(UL) Listed or c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA 262 Smoke & Flame Test



### Description:

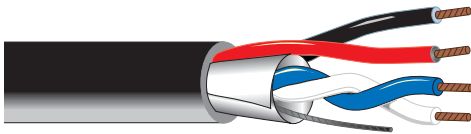
- ASTM Bare Copper • Foam Polyolefin Insulation (Data Pair), PVC (Control Pair) • Short overall twist lengths
- (Data Pair) Overall shield 100% coverage of aluminum polyester foil with drain wire, (Control Pair) Unshielded
- Overall PVC Jacket

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 |
|-------------|--------------|-----------------------------|------------------------------------|---------------------------|--------------------------------|------------------|----------|------------------|--------------|
| 77350       | 4 (2 Shld)   | 22 AWG (7x30)               | Polyolefin .025                    | Al. Foil- 100% drain wire | PVC .030                       | .255             | CMR      | 12.5 pf/ft*      | Yellow       |
|             | 2 (2 Unshld) | 18 AWG (7x26)               | .010                               | None                      |                                |                  |          | 22.5 pf/ft**     |              |
|             |              | 6.2Ω/M'                     |                                    |                           |                                |                  |          |                  |              |

\* Capacitance between conductors.

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



### Description:

- ASTM Bare Copper • Foam FEP Insulation (Data Pair), Fluoropolymer Insulation (Control Pair) • Short overall twist lengths • (Data Pair) Overall shield 100% coverage of aluminum polyester foil with drain wire, (Control Pair) Unshielded • Overall Copolymer Jacket

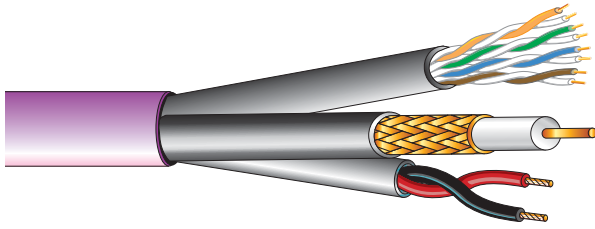
Standard pool size 1000ft.

| 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 |
|-------------|--------------|-----------------------------|------------------------------------|---------------------------|--------------------------------|------------------|----------|------------------|--------------|
| D25350      | 4 (2 Shld)   | 22 AWG (7x30)               | Foam FEP .022                      | Al. Foil- 100% drain wire | Flexible Polymer Alloy .015    | .206             | CMP      | 12.5 pf/ft*      | Black        |
|             | 2 (2 Unshld) | 18 AWG (7x26)               | Polymer Alloy .008                 | None                      |                                |                  |          | 22.5 pf/ft**     |              |
|             |              | 6.2Ω/M'                     |                                    |                           |                                |                  |          |                  |              |

| Color Code     |  |  |
|----------------|--|--|
| Catalog No.    | 77350  | D25350   |
| Primary Colors | 22 Awg Pair: Blue/White<br>18 Awg Control: Red/Black | 22 Awg Pair: Blue/White<br>18 Awg Control: Red/Black |

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# Media Control Cables



## Rating:

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

## Media Control Cable Specialized Control Systems

### Applications:

Indoor for:

- Home Control Systems
- Commercial Control Systems
- Sound and Audio

Standard pool size 1000ft.

| Catalog No. | Cable Description  | Overall Jacket & Cable O.D. | Jacket Color |
|-------------|--|-----------------------------|--------------|
|             |  | Inches                      |              |
| C2415<br>CM | 1- 77350 Media Control Cable (Yellow Jacket) +<br>1- 4 Pair 24 AWG Category 5E Cable (Gray Jacket)<br><br>Overall PVC Jacket   | PVC Jkt.<br><br>.485        | Yellow       |
| C2425<br>CM | 1- 77350 Media Control Cable (Yellow Jacket) +<br>2- 4 Pair 24 AWG Category 5E Cable (Pink and Gray Jacket)<br><br>Overall PVC Jacket  | PVC Jkt.<br><br>.500        | Yellow       |
| E1854<br>CM | 1- Control Cable ( 2 Cond 18 Awg. Unshielded) Gray Jacket +<br>1- 4 Pair 24 AWG Category 5E Cable (Pink Jacket) +<br>1- CCTV Cable -RG59/U - 20 AWG Foam Dielectric 95% Bare Copper Braid (Black Jacket) Elan Via! Cable | PVC Jkt.<br><br>.579        | Violet       |

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