



**Product:** [6541PA](#) 

Security & Sound, 2 Pair 22 AWG, BC, Individually Shielded, CMP

## Product Description

Security, Pro Audio & Intercom Cable, 2 Pair 22 AWG (7x30) bare copper pairs with FEP insulation, Individually Beldfoil® shielded, PVDF jacket with ripcord, Plenum rated.

## Technical Specifications

### Product Overview

|                        |                           |
|------------------------|---------------------------|
| Suitable Applications: | Security, Audio, Intercom |
|------------------------|---------------------------|

### Construction Details

#### Conductor

| Element | No. of Elements | Size   | Stranding | Material         |
|---------|-----------------|--------|-----------|------------------|
| Pair(s) | 2               | 22 AWG | 7x30      | BC - Bare Copper |

#### Insulation

| Element | Material                             | Nom. Thickness     | Nom. Insulation Diameter | Color Code                 |
|---------|--------------------------------------|--------------------|--------------------------|----------------------------|
| Pair(s) | FEP - Fluorinated Ethylene Propylene | 0.010 in (0.25 mm) | 0.049 in (1.2 mm)        | Black & Red, Black & White |

#### Inner Shield

| Element | Shield Type | Material                | Coverage | Drainwire Type   | Notes     |
|---------|-------------|-------------------------|----------|------------------|-----------|
| Pair(s) | Tape        | Bi-Laminate (Alum+Poly) | 100%     | 24 AWG (7x32) TC | each pair |

#### Outer Jacket

| Material                       | Nom. Thickness     | Nom. Diameter      | Ripcord |
|--------------------------------|--------------------|--------------------|---------|
| PVDF - Polyvinylidene Fluoride | 0.015 in (0.38 mm) | 0.214 in (5.44 mm) | Yes     |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.214 in (5.44 mm) |
|-----------------------------------|--------------------|

### Electrical Characteristics

#### Electricals

| Element | Nom. Conductor DCR            | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Inductance        | Nom. Velocity of Prop. | Max. Current                  |
|---------|-------------------------------|-------------------------------|-------------------------------------------------|-------------------------------|------------------------|------------------------|-------------------------------|
| Pair(s) | 16.4 Ohm/1000ft (53.8 Ohm/km) | 27.5 pF/ft (90.2 pF/m)        | 49.5 pF/ft (162 pF/m)                           | 50 Ohm                        | 0.18 µH/ft (0.59 µH/m) | 69%                    | 2.2 Amps per conductor @ 25°C |

#### Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMP)       |

### Mechanical Characteristics

#### Temperature

| UL Temperature | Operating       |
|----------------|-----------------|
| 75°C           | -20°C to +150°C |

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
|-----------------|-------------------|

|                    |                          |
|--------------------|--------------------------|
| 2.1 in (53 mm)     | 2.1 in (53 mm)           |
| Max. Pull Tension: | 47 lbs (21 kg)           |
| Bulk Cable Weight: | 24 lbs/1000ft (36 kg/km) |

Standards and Compliance

|                                  |                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor - PlenumIndoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, UV Resistance, Aerial - When supported by messenger wire |
| Flammability / Reaction to Fire: | NFPA 262, UL 910 (Plenum), FT6                                                                                                |
| NEC / UL Compliance:             | Article 800, CMP                                                                                                              |
| CEC / C(UL) Compliance:          | CMP.                                                                                                                          |
| European Directive Compliance:   | EU CE Mark, REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)                                           |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                                                                               |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.544 Revision Date: 09-07-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #          | Color | Putup Type | Length   | UPC          |
|-----------------|-------|------------|----------|--------------|
| 6541PA 008U1000 | Gray  | UnReel     | 1,000 ft | 612825178378 |
| 6541PA 0085000  | Gray  | Reel       | 5,000 ft | 612825178255 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

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