

Product: [6545PA](#) 



Security & Sound, 6 Pair 22 AWG, BC, CMP

Product Description

Security, Pro Audio & Intercom Cable, 6 Pair 22 AWG stranded (7x30) bare copper pairs with FEP insulation, Individually Beldfoil® shielded and PVDF jacket with ripcord, Plenum rated.

Technical Specifications

Product Overview

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

Physical Characteristics (Overall)

Conductor

| Element                | AWG | Stranding | Material         | Nominal Diameter | No. of Pairs |
|------------------------|-----|-----------|------------------|------------------|--------------|
| 22 AWG Conductors      | 22  | 7x30      | BC - Bare Copper | 0.029 in         | 6            |
| Total Number of Pairs: |     |           |                  |                  | 6            |

Insulation

| Material                             | Nominal Diameter |
|--------------------------------------|------------------|
| FEP - Fluorinated Ethylene Propylene | 0.049 in         |

Color Chart

| Number | Color          |
|--------|----------------|
| 1      | Black & Red    |
| 2      | Black & White  |
| 3      | Black & Green  |
| 4      | Black & Blue   |
| 5      | Black & Yellow |
| 6      | Black & Brown  |

Inner Shield

| Type | Material                | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire Diameter | Drainwire AWG | Drainwire Position |
|------|-------------------------|---------------------|--------------|--------------------|--------------------|---------------|--------------------|
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil® (Z-Fold®) | 100%         | TC - Tinned Copper | 0.024 in           | 24            | Under shield tape  |

Outer Jacket

| Material                       | Nominal Diameter | Ripcord |
|--------------------------------|------------------|---------|
| PVDF - Polyvinylidene Fluoride | 0.3 in           | Yes     |

Construction and Dimensions

Stranding

| Twists       |
|--------------|
| 6.9 twist/ft |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Inner Shield DCR |
|-----------------------|--------------------------|
| 16.4 Ohm/1000ft       | 15.3 Ohm/1000ft          |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
| 27.5 pF/ft                              | 49.5 pF/ft                                              |

Inductance

| Nominal Inductance |
|--------------------|
| 0.18 µH/ft         |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 50 Ohm                           |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.47 ns/ft    | 69%                                      |

Current

| Max. Recommended Current [A] |
|------------------------------|
| 2 Amps per Conductor at 25°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

Temperature Range

|                       |                 |
|-----------------------|-----------------|
| UL Temp Rating:       | 60°C            |
| Operating Temp Range: | -15°C To +150°C |

Mechanical Characteristics

|                              |               |
|------------------------------|---------------|
| Bulk Cable Weight:           | 59 lbs/1000ft |
| Max. Pull Tension:           | 111 lbs       |
| Min. Bend Radius/Minor Axis: | 3 in          |

Standards

|                       |     |
|-----------------------|-----|
| NEC/(UL) Compliance:  | CMP |
| CEC/C(UL) Compliance: | CMP |

Applicable Environmental and Other Programs

|                                              |        |
|----------------------------------------------|--------|
| Environmental Space:                         | Plenum |
| EU Directive 2000/53/EC (ELV):               | Yes    |
| EU Directive 2003/11/EC (BFR):               | Yes    |
| EU Directive 2011/65/EU (RoHS 2):            | Yes    |
| EU Directive 2012/19/EU (WEEE):              | Yes    |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes    |
| EU Directive Compliance:                     | Yes    |
| MII Order #39 (China RoHS):                  | Yes    |

Suitability

|                                    |     |
|------------------------------------|-----|
| Suitability - Hazardous Locations: | No  |
| Suitability - Indoor:              | Yes |

Flammability, LS0H, Toxicity Testing

|                     |           |
|---------------------|-----------|
| C(UL) Flammability: | FT6       |
| UL Flammability:    | NFPA 262  |
| UL voltage rating:  | 300 V RMS |

Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Part Number

Variants

| Item #         | Color | Put-Up Type | Length   | UPC          |
|----------------|-------|-------------|----------|--------------|
| 6545PA 0081000 | Gray  | Reel        | 1,000 ft | 612825430049 |
| 6545PA 0082500 | Gray  | Reel        | 2,500 ft | 612825178460 |

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

Product Notes

|        |                      |
|--------|----------------------|
| Notes: | Ripcord under jacket |
|--------|----------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.295 Revision Date: 08-27-2021 |
|----------------------|--------------------------------------------------|

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