

## 6549PA Multi-Conductor - Pro Audio and Intercom Systems



For more Information  
please call

1-800-Belden1



### General Description:

Security, Pro Audio & Intercom Cable, Plenum-CMP, 16-22 AWG stranded bare copper pairs with FEP insulation, Individually Beldfoil® shielded and PVDF jacket with ripcord

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 16      | 22  | 7x30      | BC - Bare Copper   | .029       |

Total Number of Conductors: 32

#### Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material                  | Wall Thickness (in.) | Dia. (in.) |
|-----------------------|--------------------------------------|----------------------|------------|
| Teflon®               | FEP - Fluorinated Ethylene Propylene | .010                 | .049       |

#### Inner Shield

Inner Shield Material:

| Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 24  |

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material  | Nom. Wall Thickness (in.) |
|------------------------|---------------------------|
| PVDF - Fluorocopolymer | .017                      |

Outer Jacket Ripcord: Yes

### Overall Cable

Overall Nominal Diameter: 0.457 in.

### Pair

Pair Color Code Chart:

| Number | Color          |
|--------|----------------|
| 1      | Black & Red    |
| 2      | Black & White  |
| 3      | Black & Green  |
| 4      | Black & Blue   |
| 5      | Black & Yellow |
| 6      | Black & Brown  |
| 7      | Black & Orange |
| 8      | Red & White    |
| 9      | Red & Green    |
| 10     | Red & Blue     |
| 11     | Red & Yellow   |
| 12     | Red & Brown    |
| 13     | Red & Orange   |
| 14     | Green & White  |
| 15     | Green & Blue   |
| 16     | Green & Yellow |

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## Pair Lay Length &amp; Direction:

| Lay Length (in.) | Twists (twist/ft) |
|------------------|-------------------|
| 1.375            | 6.900             |

**Mechanical Characteristics (Overall)**

|                                   |                  |
|-----------------------------------|------------------|
| Operating Temperature Range:      | -20°C To +150°C  |
| UL Temperature Rating:            | 75°C             |
| Bulk Cable Weight:                | 150 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 324.200 lbs.     |
| Min. Bend Radius/Minor Axis:      | 4.500 in.        |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMP        |
| NEC Articles:                         | 800        |
| CEC/C(UL) Specification:              | CMP        |
| EU Directive 2011/65/EU (ROHS II):    | Yes        |
| EU CE Mark:                           | Yes        |
| EU Directive 2000/53/EC (ELV):        | Yes        |
| EU Directive 2002/95/EC (RoHS):       | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |
| EU Directive 2002/96/EC (WEEE):       | Yes        |
| EU Directive 2003/11/EC (BFR):        | Yes        |
| CA Prop 65 (CJ for Wire & Cable):     | Yes        |
| MIL Order #39 (China RoHS):           | Yes        |

**Flame Test**

|                   |          |
|-------------------|----------|
| UL Flame Test:    | NFPA 262 |
| C(UL) Flame Test: | FT6      |

**Plenum/Non-Plenum**

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

**Electrical Characteristics (Overall)**

## Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 50              |

## Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| .18                |

## Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/ft) |
|---------------------|
| 27.5                |

## Nom. Capacitance Cond. to Other Conductor &amp; Shield:

| Capacitance (pF/ft) |
|---------------------|
| 49.5                |

## Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 69     |

## Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 16.4                     |

## Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 15.3                     |

## Max. Operating Voltage - UL:

| Voltage   |
|-----------|
| 300 V RMS |

## Max. Recommended Current:

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Current

1.5 Amps per conductor @ 25°C

Notes (Overall)

**Notes:** Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc            |
|----------------|----------|-------------|-------|-------|----------------------|
| 6549PA 0081000 | 1,000 FT | 159.000 LB  | GRAY  | C     | 16 FS PR #22 FEP SLF |

Notes:

C = CRATE REEL PUT-UP.

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