



Product: [6541PA](#)

2 Pair #22 Str BC, Individually Shielded, PVDF Jkt, Plenum

REPRESENTATIVE IMAGE

Product Description

2 Pair 22 AWG (7x30) bare copper pairs with FEP insulation, Individually Beldfoil® shielded, PVDF jacket with ripcord, CMP

Technical Specifications

Product Overview

| | |
|------------------------|-------------------------------|
| Suitable Applications: | Security, Pro 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 Impedance | 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 | 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 - Plenum, Indoor |
| 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, 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: 0.380 Revision Date: 11-09-2022 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|-----------------|-------|------------|----------|--------------|----------|
| 6541PA 0081000 | Gray | Reel | 1,000 ft | 612825430025 | C |
| 6541PA 008U1000 | Gray | UnReel | 1,000 ft | 612825178378 | |
| 6541PA 0085000 | Gray | Reel | 5,000 ft | 612825178255 | |

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