

6546PA Multi-Conductor - Pro Audio and Intercom Systems



For more Information
please call

1-800-Belden1



General Description:

Security, Pro Audio & Intercom Cable, Plenum-CMP, 8-22 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. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 8 | 22 | 7x30 | BC - Bare Copper | 0.7366 |

Total Number of Conductors: 16

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Wall Thickness (mm) | Dia. (mm) |
|-----------------------|--------------------------------------|---------------------|-----------|
| Teflon® | FEP - Fluorinated Ethylene Propylene | 0.254 | 1.2446 |

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 (mm) |
|------------------------|--------------------------|
| PVDF - Fluorocopolymer | 0.4318 |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 8.433 mm

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 |
|---|-------------|

Pair Lay Length & Direction:

| Lay Length (mm) | Twists (twist/m) |
|-----------------|------------------|
| 34.925 | 22.639 |

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|-----------------|
| Operating Temperature Range: | -20°C To +150°C |
| UL Temperature Rating: | 75°C |
| Bulk Cable Weight: | 115.336 Kg/Km |
| Max. Recommended Pulling Tension: | 794.449 N |
| Min. Bend Radius/Minor Axis: | 82.550 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CMP |
| 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 |
| MII 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/m) |
| 0.59058 |

Nom. Capacitance Conductor to Conductor:

| |
|--------------------|
| Capacitance (pF/m) |
| 90.2275 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|--------------------|
| Capacitance (pF/m) |
| 162.41 |

Nominal Velocity of Propagation:

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

Nom. Conductor DC Resistance:

METRIC MEASUREMENT VERSION

6546PA Multi-Conductor - Pro Audio and Intercom Systems

DCR @ 20°C (Ohm/km)

53.8084

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

50.1993

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

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 |
|----------------|----------|-------------|-------|-------|---------------------|
| 6546PA 0081000 | 1,000 FT | 85.000 LB | GRAY | C | 8 FS PR #22 FEP SLF |
| 6546PA 0082500 | 2,500 FT | 207.500 LB | GRAY | | 8 FS PR #22 FEP SLF |

Notes:

C = CRATE REEL PUT-UP.

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