

## 6543PA Multi-Conductor - Pro Audio and Intercom Systems



For more Information  
please call

1-800-Belden1



### General Description:

Security, Pro Audio & Intercom Cable, Plenum-CMP, 4-22 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)
4	22	7x30	BC - Bare Copper	0.7366

Total Number of Conductors: 8

#### 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	0.381

Outer Jacket Ripcord: Yes

#### Overall Cable

Overall Nominal Diameter: 6.401 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue

##### 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:	68.160 Kg/Km
Max. Recommended Pulling Tension:	421.689 N
Min. Bend Radius/Minor Axis:	63.500 mm

### 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
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
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### 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:

DCR @ 20°C (Ohm/km)  
53.8084

#### Nominal Outer Shield DC Resistance:

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**DCR @ 20°C (Ohm/km)**

50.1993

**Max. Operating Voltage - UL:**

**Voltage**

300 V RMS

**Max. Recommended Current:**

**Current**

2.0 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
6543PA 0081000	1,000 FT	46.000 LB	GRAY	C	4 FS PR #22 FEP SLF
6543PA 0085000	5,000 FT	250.000 LB	GRAY		4 FS PR #22 FEP SLF

**Notes:**

C = CRATE REEL PUT-UP.

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