


**Product:** [6546PA](#) 



Security & Sound, 8 Pair 22 AWG, BC, CMP

### Product Description

Security, Pro Audio & Intercom Cable, 8 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
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#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	BC - Bare Copper	0.029 in	8

Total Number of Pairs:	8
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##### 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
7	Black & Orange
8	Red & White

##### Inner Shield Material

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

Material	Nominal Diameter	Ripcord
PVDF - Polyvinylidene Fluoride	0.332 in	Yes

#### Construction and Dimensions

##### Stranding

Twists
6.9 twist/ft

#### Electrical Characteristics

## Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR
15.3 Ohm/1000ft	16.4 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 $\mu$ H/ft

## Impedance

Nominal Characteristic Impedance
50 Ohm

## Delay

Nominal Delay
1.47 ns/ft

## Current

Max. Recommended Current [A]
1.4 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:	79 lbs/1000ft
Max. Pull Tension:	148 lbs
Min Bend Radius/Minor Axis:	3.3 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 II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes

## Flammability, LSOH, Toxicity Testing

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

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
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## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
6546PA 0081000	Gray	Reel	1,000 ft	612825433873
6546PA 0082500	Gray	Reel	2,500 ft	612825178491

Footnote:	C - CRATE REEL PUT-UP.
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## Product Notes

Notes:	Ripcord under jacket
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## History

Update and Revision:	Revision Number: 0.220 Revision Date: 08-25-2020
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