

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

Element	AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22 AWG Conductors	22	7x30	BC - Bare Copper	0.029 in	8
Total Number of Pairs:					8

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

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	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 µH/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.47 ns/ft	69%

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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes

Flammability, LS0H, Toxicity Testing

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

Plenum/Non-Plenum

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Plenum (Y/N):	Yes
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Part Number

Variants

Item #	Color	Put-Up 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: 0.299 Revision Date: 08-27-2021
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