


**Product:** [6549PA](#) 

Security & Sound, 16 Pair 22 AWG, BC, CMP



## Product Description

Security, Pro Audio & Intercom Cable, 16 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
------------------------	---------------------------

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	BC - Bare Copper	0.029 in	16

Total Number of Pairs:	16
------------------------	----

#### 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
9	Red & Green
10	Red & Blue
11	Red & Yellow
12	Red & Brown
13	Red & Orange
14	Green & White
15	Green & Blue
16	Green & Yellow

#### 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	0.457 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:	150 lbs/1000ft
Max. Pull Tension:	295 lbs
Min Bend Radius/Minor Axis:	4.6 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 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
---------------	-----

### Part Number

#### Variants

Item #	Color	Putup Type	Length	UPC
6549PA 0081000	Gray	Reel	1,000 ft	612825433835
6549PA 0081500	Gray	Reel	1,500 ft	612825393580

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

### Product Notes

Notes:	Ripcord under jacket
--------	----------------------

### History

Update and Revision:	Revision Number: 0.210 Revision Date: 02-16-2021
----------------------	--

© 2021 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.