



**Product:** [4541FE](#)

Security & Sound, 2 Pair 22 AWG BC, LSZH, Shielded, Eca

## Product Description

Security & Commercial Audio Cable, 2-22 AWG stranded bare copper pairs with polypropylene insulation, Beldfoil® shield, LSZH jacket with ripcord, CPR Eca

## Technical Specifications

### Product Overview

Suitable Applications:	Security Systems, Intercom/PA Systems, Sound/Audio Systems, Power-Limited Controls
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	BC - Bare Copper	0.75 mm	2

Conductor Count:	4
Total Number of Pairs:	2

#### Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
Insulation	PE - Polyethylene	1.07 mm	0.05 mm	0.2 mm

#### Color Chart

Number	Color
Pair 1	Black & Red
Pair 2	Black & White

#### Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	9 µm	TC - Tinned Copper	AWG24/7

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	5.3 mm	0.4 mm	Provided under sheath

## Construction and Dimensions

### Cabling

Description
2 pairs twisted

## Electrical Characteristics

### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
54 Ohm/km	46 Ohm/km

### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
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105 pF/m	190 pF/m
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#### Current

<b>Max. Recommended Current [A]</b>
2.2 Amps per Conductor

#### Voltage

<b>Voltage Rating [V]</b>
300 V

#### Temperature Range

Installation Temperature Range:	-20°C To +70°C
Storage Temperature Range:	-30°C to +70°C
Operating Temperature Range:	-20°C To +70°C

#### Mechanical Characteristics

Max. Pull Tension:	60 N
Min. Bend Radius During Installation:	53 mm
Min Setting Radius:	26.5 mm

#### Standards

CPR Euroclass:	Eca
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#### Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
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#### Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

#### Related Part Numbers

#### Variants

Item #	Color	Put-Up Type	Length	EAN
4541FE.00500	Gray	Reel	500 m	8719605007315

#### History

Update and Revision:	Revision Number: 0.216 Revision Date: 04-08-2022
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