



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	Yes
Table Notes:		Ripcord 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
105 pF/m	190 pF/m

Current

Max. Recommended Current [A]
2.2 Amps per Conductor

Voltage

Voltage Rating [V]
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, LS0H, 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: 0.222 Revision Date: 11-09-2022
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