

Product: 4502FE

Security & Sound, 4 Conductor 22 AWG BC, LSZH, Shielded, Eca

Product Description

Security & Commercial Audio Cable, 4-22 AWG stranded bare copper conductors with polypropylene insulation, Beldfoil® shield, LSZH jacket with ripcord, CPR Eca

Technical Specifications

Product Overview

Suitable Applications:	Security System, Intercom/PA, Audio/Speaker, Power-Limited Controls, Noisy Environment

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors
22	7x30	BC - Bare Copper	0.75 mm	4

Conductor Count:	4

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
Insulation	PP - Polypropylene	1.07 mm	0.05 mm	0.2 mm

Color Chart

Number	Color
Wire 1	Black
Wire 2	Red
Wire 3	White
Wire 4	Green

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)	3.7 mm	0.4 mm	Yes

Table Notes:	Ripcord provided under sheath

Construction and Dimensions

Cabling

Description
4 wires twisted

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
54 Ohm/km	52.8 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
90 pF/m	170 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:	65 N
Min. Bend Radius During Installation:	37 mm
Min Setting Radius:	18.5 mm

Standards

CPR Euroclass:	Eca

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca

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
4502FE.01500				
4502FE.00100	Gray	Reel	100 m	8719605007124
4502FE.00500	Gray	Reel	500 m	8719605007131

History

Update and Revision:	Revision Number: 0.310 Revision Date: 03-04-2025

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