



Product: 4502ULW ☑

Life Cycle Status: Capability

Security & Sound, 4 Conductor 22 AWG BC, BC, LSZH, Cca

# **Product Description**

Security & Commercial Audio Cable, 4-22 AWG stranded bare copper conductors with Low Smoke Zero Halogen insulation, and LSZH jacket with ripcord, CPR Cca

# **Technical Specifications**

## **Product Overview**

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

# **Physical Characteristics (Overall)**

### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors
22	7x30	BC - Bare Coppe	0.75 mm	4
Condu	uctor Count:	4		

### Insulation

Type	Material	Nominal Diameter	Nominal Wall Thickness
Insulation	LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.45 mm	0.35 mm

## Color Chart

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

# Outer Shield

Coverage [%]	Drainwire Material	Drainwire AWG
100%	TC - Tinned Copper	AWG24/7

### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	5.7 mm	1.1 mm

## **Construction and Dimensions**

## Cabling



## **Electrical Characteristics**

## Conductor DCR



#### Capacitance

Nom. Capacitance Conductor to Conductor 70 pF/m

#### Current

Max. Recommended Current [A]
2.2 Amps per Conductor

#### Voltage

Voltage Rating [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:	80 N
Min. Bend Radius During Installation:	57 mm
Min Setting Radius:	34 mm

### **Standards**

CPR Euroclass:	Cca-s1a,d1,a1		

## **Applicable Environmental and Other Programs**

Environmental Space:	Indoor - Euroclass Cca
EU CE Mark:	Yes

# 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:	80%

## **Product Notes**

Notes:	This is a preliminary Technical Design Specification (TDS) which is subject to modification throughout the prototyping phase. The minimum business quantity to offer is 12km for the first order. This product will have Grey as standard color and 305mt or 500mt as standard put-ups. Additional options for colors and put-ups are available on special request. The estimated production lead time for the first order will be similar to the production lead time of 4502FE plus extra 6-7 weeks. Please liaise with your Belden representative for confirmation.
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## **History**

Update and Revision:	Revision Number: 0.6 Revision Date: 04-07-2025

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