



Product: [4506UE](#)

Security & Sound, 8 Conductor 22 AWG BC, LSZH, Eca

Product Description

Security & Commercial Audio Cable, 8-22 AWG stranded bare copper conductors with polypropylene insulation, LSZH jacket with ripcord, CPR Eca

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Security/Intercom/PA/Sound/Audio Systems, Power Limited Controls, Single Line Telephone; Commercial applications |
|------------------------|--|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Conductors |
|-----|-----------|------------------|------------------|-------------------|
| 22 | 7x30 | BC - Bare Copper | 0.75 mm | 8 |

| | |
|------------------|---|
| Conductor Count: | 8 |
|------------------|---|

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 |
|--------|--------|
| Wire 1 | Black |
| Wire 2 | Red |
| Wire 3 | White |
| Wire 4 | Green |
| Wire 5 | Brown |
| Wire 6 | Blue |
| Wire 7 | Orange |
| Wire 8 | Yellow |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|---|------------------|------------------------|---------------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 4.65 mm | 0.4 mm | Provided under the sheath |

Construction and Dimensions

Cabling

| Description |
|-----------------|
| 8 wires twisted |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 53 Ohm/km |

Capacitance

| |
|--|
| Nom. Capacitance Conductor to Conductor |
| 80 pF/m |

Current

| |
|-------------------------------------|
| Max. Recommended Current [A] |
| 2 A |

Voltage

| |
|---------------------------|
| Voltage Rating [V] |
| 300 V |

Temperature Range

| | |
|--------------------------|----------------|
| Installation Temp Range: | -20°C To +70°C |
| Storage Temp Range: | -30°C To +70°C |
| Operating Temp Range: | -20°C To +70°C |

Mechanical Characteristics

| | |
|--------------------------------------|----------|
| Max. Pull Tension: | 135 N |
| Min Bend Radius During Installation: | 46.5 mm |
| Min Setting Radius: | 23.25 mm |

Standards

| | |
|----------------|-----|
| CPR Euroclass: | Eca |
|----------------|-----|

Applicable Environmental and Other Programs

| | |
|---------------------------------------|------------------------|
| Environmental Space: | Indoor - Euroclass Eca |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-01-01 |

Flammability, LSOH, Toxicity Testing

| | |
|--|---------------|
| IEC Flammability: | IEC 60332-1-2 |
| IEC 60754-1 (EN50267-1)- Halogen Amount: | Zero |
| IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity: | 2.5 µS/mm |
| IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH: | 4.3 |
| IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance: | 60% |

Part Number

Variants

| Item # | Color | Putup Type | Length | EAN |
|--------------|-------|------------|--------|---------------|
| 4506UE.00100 | Gray | Reel | 100 m | 8719605007261 |
| 4506UE.00500 | Gray | Reel | 500 m | 8719605007278 |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.171 Revision Date: 12-18-2020 |
|----------------------|--|

© 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.