



**Product:** [4504FE](#)

Security & Sound, 6 Conductor 22 AWG BC, LSZH, Shielded, Eca

## Product Description

Security & Commercial Audio Cable, 6-22 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          | 6                 |

|                  |   |
|------------------|---|
| Conductor Count: | 6 |
|------------------|---|

#### 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 |
| Wire 5 | Brown |
| Wire 6 | Blue  |

#### Outer Shield Material

| 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

| Material  | Nominal Diameter | Nominal Wall Thickness | Ripcord                   |
|---|------------------|------------------------|---------------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 4.4 mm           | 0.4 mm                 | Provided under the sheath |

### Construction and Dimensions

#### Cabling

| Description     |
|-----------------|
| 6 wires twisted |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
|                       |                          |

|           |           |
|-----------|-----------|
| 54 Ohm/km | 50 Ohm/km |
|-----------|-----------|

#### Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 105 pF/m                                | 185 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:                   | 100 N |
| Min Bend Radius During Installation: | 44 mm |
| Min Setting Radius:                  | 22 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           |
|--------------|-------|------------|--------|---------------|
| 4504FE.00100 | Gray  | Reel       | 100 m  | 8719605007186 |
| 4504FE.00500 | Gray  | Reel       | 500 m  | 8719605007193 |

#### History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.226 Revision Date: 12-18-2020 |
|----------------------|--|

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