



**Product:** [4100FE](#)

Security & Sound, 2 Conductor 14 AWG BC, LSZH, Shielded, Eca

Product Description

Security & Commercial Audio Cable, 2-14 AWG stranded bare copper conductors with polypropylene insulation, Beldfoil® shield, LSZH jacket with ripcord, CPR Eca

Technical Specifications

Product Overview

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Suitable Applications: | Intercom/PA Systems, Sound/Audio Systems, Control Systems |
|------------------------|-----------------------------------------------------------|

Physical Characteristics (Overall)

| Conductor        |           |                  |                  |                   |
|------------------|-----------|------------------|------------------|-------------------|
| AWG              | Stranding | Material         | Nominal Diameter | No. of Conductors |
| 14               | 19x27     | BC - Bare Copper | 1.8 mm           | 2                 |
| Conductor Count: |           |                  |                  | 2                 |

| Insulation |                   |                  |                        |                        |
|------------|-------------------|------------------|------------------------|------------------------|
| Type       | Material          | Nominal Diameter | Diameter +/- Tolerance | Nominal Wall Thickness |
| Insulation | PE - Polyethylene | 2.34 mm          | 0.05 mm                | 0.28 mm                |

| Color Chart |       |
|-------------|-------|
| Number      | Color |
| Wire 1      | Black |
| Wire 2      | 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 | AWG22/7       |

| Outer Jacket                                    |                  |                        |         |
|-------------------------------------------------|------------------|------------------------|---------|
| Material                                        | Nominal Diameter | Nominal Wall Thickness | Ripcord |
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 5.65 mm          | 0.4 mm                 | Yes     |

|              |                               |
|--------------|-------------------------------|
| Table Notes: | Ripcord provided under sheath |
|--------------|-------------------------------|

Construction and Dimensions

| Cabling     |                 |
|-------------|-----------------|
| Description | 2 wires twisted |

Electrical Characteristics

| Conductor DCR         |                          |
|-----------------------|--------------------------|
| Nominal Conductor DCR | Nominal Outer Shield DCR |
| 8.3 Ohm/km            | 11.3 Ohm/km              |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
| 250 pF/m                                | 450 pF/m                                                |

Current

| Max. Recommended Current [A] |
|------------------------------|
| 8 A                          |

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:                    | 200 N    |
| Min. Bend Radius During Installation: | 56.5 mm  |
| Min Setting Radius:                   | 28.25 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           |
|--------------|-------|-------------|--------|---------------|
| 4100FE.00305 | Gray  | Reel        | 305 m  | 8719605154965 |
| 4100FE.00500 | Gray  | Reel        | 500 m  | 8719605006196 |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.244 Revision Date: 11-27-2023 |
|----------------------|--------------------------------------------------|

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