



**Product:** [4304FLW](#)

Security & Sound, 6 Conductor 18 AWG BC, BC, LSZH, Shielded, Cca

**Product Description**

Security & Commercial Audio Cable, 6-18 AWG stranded bare copper conductors with Low Smoke Zero Halogen insulation, Beldfoil® shield and LSZH jacket with ripcord, CPR Cca

**Technical Specifications**

**Product Overview**

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

**Physical Characteristics (Overall)**

| <b>Conductor</b> |           |                  |                  |                   |
|------------------|-----------|------------------|------------------|-------------------|
| AWG              | Stranding | Material         | Nominal Diameter | No. of Conductors |
| 18               | 7x26      | BC - Bare Copper | 1.22 mm          | 6                 |
| Conductor Count: |           |                  |                  | 6                 |

| <b>Insulation</b> |                                                 |                  |                        |
|-------------------|-------------------------------------------------|------------------|------------------------|
| Type              | Material                                        | Nominal Diameter | Nominal Wall Thickness |
| Insulation        | LSZH - Low Smoke Zero Halogen (Flame Retardant) | 1.72 mm          | 0.35 mm                |

| <b>Color Chart</b> |       |
|--------------------|-------|
| Number             | Color |
| Wire 1             | Black |
| Wire 2             | Red   |
| Wire 3             | White |
| Wire 4             | Green |
| Wire 5             | Brown |
| Wire 6             | Blue  |

| <b>Outer Shield</b> |                         |                     |              |                   |                    |               |
|---------------------|-------------------------|---------------------|--------------|-------------------|--------------------|---------------|
| 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       |

| <b>Outer Jacket</b>                             |                  |                               |         |
|-------------------------------------------------|------------------|-------------------------------|---------|
| Material                                        | Nominal Diameter | Nominal Wall Thickness        | Ripcord |
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 7.4 mm           | 1.0 mm                        | Yes     |
| Table Notes:                                    |                  | Ripcord provided under sheath |         |

**Construction and Dimensions**

| <b>Cabling</b>  |
|-----------------|
| Description     |
| 6 wires twisted |

**Electrical Characteristics**

**Conductor DCR**

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 21.3 Ohm/km           | 23.6 Ohm/km              |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
| 125 pF/m                                | 224 pF/m                                                |

Current

| Max. Recommended Current [A] |
|------------------------------|
| 3.5 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:                    | 280 N |
| Min. Bend Radius During Installation: | 74 mm |
| Min Setting Radius:                   | 38 mm |

Standards

|                |               |
|----------------|---------------|
| CPR Euroclass: | Cca-s1a,d1,a1 |
|----------------|---------------|

Applicable Environmental and Other Programs

|                      |                        |
|----------------------|------------------------|
| Environmental Space: | Indoor - Euroclass Cca |
|----------------------|------------------------|

Flammability, LSOH, 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%           |

Related Part Numbers

Variants

| Item #        | Color | Put-Up Type | Length | EAN           |
|---------------|-------|-------------|--------|---------------|
| 4304FLW.01500 |       |             |        |               |
| 4304FLW.00500 | Gray  | Reel        | 500 m  | 8719605179654 |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.96 Revision Date: 06-28-2024 |
|----------------------|-------------------------------------------------|

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