



Product: [4309FLW](#)

Security & Sound, 12 Conductor 18 AWG, BC, shielded, LSZH, Cca

Product Description

Security & Commercial Audio Cable, 12-18 AWG stranded bare copper conductors with Low Smoke Zero Halogen insulation, Beldfoil® shielded, LSZH jacket with ripcord, CPR Cca

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 |
| 18 | 7x26 | BC - Bare Copper | 1.22 mm | 12 |
| Conductor Count: | | | | 12 |

| Insulation | | | | |
|------------|---|------------------|------------------------|------------------------|
| Type | Material | Nominal Diameter | Diameter +/- Tolerance | Nominal Wall Thickness |
| Insulation | LSZH - Low Smoke Zero Halogen (Flame Retardant) | 1.72 mm | 0.05 mm | 0.25 mm |

Color Chart

| Color |
|-----------|
| Black |
| Red |
| White |
| Green |
| Brown |
| Blue |
| Orange |
| Yellow |
| Purple |
| Gray |
| Pink |
| Turquoise |

| Outer Shield | | | | | |
|--------------|-------------------------|---------------------|--------------|--------------------|---------------|
| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG |
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil® | 100% | TC - Tinned Copper | AWG24/7 |

| Outer Jacket | | | |
|---|------------------|------------------------|---------|
| Material | Nominal Diameter | Nominal Wall Thickness | Ripcord |
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 9.4 mm | 1.2 mm | Yes |

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

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 21.3 Ohm/km |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 100 pF/m | 180 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: | 480 N |
| Min. Bend Radius During Installation: | 94 mm |
| Min Setting Radius: | 47 mm |

Standards

| | |
|----------------|--------------|
| CPR Euroclass: | Cca-s1,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: | 60% |

Related Part Numbers

Variants

| Item # |
|---------------|
| 4309FLW.00500 |
| 4309FLW.00305 |

History

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| Update and Revision: | Revision Number: 0.20 Revision Date: 02-03-2025 |
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