



Product: [4302FLV](#) 

Life Cycle Status: Capability

Security & Sound, 4 Conductor 18 AWG BC, LSZH, Shielded, B2ca

Product Description

Security & Commercial Audio Cable, 4-18 AWG stranded bare copper conductors with Low Smoke Zero Halogen insulation, Beldfoil® shield and LSZH jacket with ripcord, CPR B2ca

Technical Specifications

Product Overview

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

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| Life Cycle: | Capability - the product is not yet standardly available for orders but can be manufactured |
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Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 4 | 18 AWG | 7x26 | BC - Bare Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|---|---------------------|--------------------------|--------------------------|
| Conductor(s) | LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.25 mm (0.0098 in) | 1.72 mm (0.0677 in) | Black, Red, White, Green |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|---|-------------------|------------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 1.0 mm (0.039 in) | 6.5 mm (0.26 in) | Yes |

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| Outer Jacket1 Table Notes: | Ripcord provided under sheath |
| Overall Cable Diameter (Nominal): | 6.5 mm (0.26 in) |

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|--------------|-------------------------------|-------------------------------|---|-----------------------------|
| Conductor(s) | 21.3 Ohm/km (6.49 Ohm/1000ft) | 85 pF/m (26 pF/ft) | 150 pF/m (46 pF/ft) | 4 Amps per conductor @ 25°C |

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| Nom Outer Shield DCR: | 23.6 Ohm/km (7.19 Ohm/1000ft) |
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Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 33 mm (1.3 in) | 65 mm (2.6 in) |

Max. Pull Tension: 180 N (40 lbf)

Standards and Compliance

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| Environmental Suitability: | Indoor/Outdoor - Euroclass B2ca, Indoor, Outdoor, Non-Halogenated, Sunlight Resistance - UL 1581 sec 1200 Black Only |
| Flammability / Reaction to Fire: | IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: B2ca-s1a,d1,a1 |
| CENELEC Compliance: | EN 50290-2-20 |
| European Halogen Free Standards: | IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 μ S/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3, IEC 61034-2 - Smoke Density Min. Transmittance = 80% |
| European Directive Compliance: | EU CE Mark, EU Directive 2011/65/EU (RoHS 2) |
| UK Regulation Compliance: | UKCA Mark |

Product Notes

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| Notes: | This is a preliminary Technical Design Specification (TDS). The minimum business quantity to offer is 3km for the first order. This product will have Gray as standard color and 305mt as standard put-ups. Additional options for colors and put-ups are available on special request. The estimated production lead time for the first order will be similar to the production lead time of 4302FLW. Please liaise with your Belden representative for confirmation. |
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History

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| Update and Revision: | Revision Number: 0.4 Revision Date: 06-19-2026 |
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