



**Product:** [4300FES](#) 

Life Cycle Status: Capability

Security & Sound, 2 Conductor 18 AWG BC, LSZH, Shielded, SWA, Eca

## Product Description

Security & Commercial Audio Cable, 2-18 AWG stranded bare copper conductors with polypropylene insulation, Beldfoil® shield, LSZH inner jacket , Steel Wire Armour, LSZH outer Jacket CPR Eca

## Technical Specifications

### Product Overview

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

### Product Life Cycle

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

### Construction Details

#### Conductor

| Element      | No. of Elements | Size   | Stranding | Material         |
|--------------|-----------------|--------|-----------|------------------|
| Conductor(s) | 2               | 18 AWG | 7x26      | BC - Bare Copper |

#### Insulation

| Element      | Material           | Nom. Thickness     | Nom. Insulation Diameter | Color Code |
|--------------|--------------------|--------------------|--------------------------|------------|
| Conductor(s) | PP - Polypropylene | 0.2 mm (0.0079 in) | 1.5 mm (0.059 in)        | Black, Red |

#### Inner Shield

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

#### Outer Shield

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

#### Inner Jacket

| Material                                        | Nom. Thickness    | Nom. Diameter    |
|-------------------------------------------------|-------------------|------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.8 mm (0.031 in) | 4.8 mm (0.19 in) |

#### Armor

| Armor Type & Material  | Armor Thickness   | Coverage |
|------------------------|-------------------|----------|
| SWA - Steel Wire Armor | 0.9 mm (0.035 in) | 95%      |

#### Outer Jacket

| Material                                        | Nom. Thickness    | Nom. Diameter    |
|-------------------------------------------------|-------------------|------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 1.3 mm (0.051 in) | 9.2 mm (0.36 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) | 110 pF/m (34 pF/ft)           | 200 pF/m (61 pF/ft)                             | 5 Amps per Conductor |

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

Voltage

| Voltage Rating |
|----------------|
| 300 V          |

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. |
|----------------------|-------------------|
| 20.75 mm (0.8169 in) | 41.5 mm (1.63 in) |

Standards and Compliance

|                                  |                                                                                                                                                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor - Euroclass Eca, Indoor, Outdoor, Non-Halogenated, Sunlight Resistance - UL 1581 sec 1200 Black Only                                                                                          |
| Flammability / Reaction to Fire: | IEC 60332-1-2                                                                                                                                                                                                |
| CPR Compliance:                  | CPR Euroclass: Eca; CPR UKCA Class: Eca                                                                                                                                                                      |
| 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 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3 |
| European Directive Compliance:   | EU CE Mark, EU Directive 2011/65/EU (RoHS 2)                                                                                                                                                                 |
| UK Regulation Compliance:        | UKCA Mark                                                                                                                                                                                                    |

Product Notes

|        |                                                                                                                                                                                                |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes: | This is a preliminary Technical Design Specification (TDS). The minimum business quantity to offer is 3km for the first order. Please liaise with your Belden representative for confirmation. |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                |
|----------------------|------------------------------------------------|
| Update and Revision: | Revision Number: 0.9 Revision Date: 06-08-2026 |
|----------------------|------------------------------------------------|

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