



Product: [4445FE](#)

Security & Sound, 6 Pairs 20 AWG BC, LSZH, Shielded

Product Description

Security & Commercial Audio Cable, 6-20 AWG stranded bare copper pairs with polypropylene insulation, Beldfoil® shield, LSZH jacket with ripcord

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Security Systems, Intercom/PA Systems, Sound/Audio Systems, Power-Limited Controls |
|------------------------|--|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Pairs |
|-----|-----------|------------------|------------------|--------------|
| 20 | 7x28 | BC - Bare Copper | 0.96 mm | 6 |

| | |
|------------------------|----|
| Conductor Count: | 12 |
| Total Number of Pairs: | 6 |

Insulation

| Type | Material | Nominal Diameter | Diameter +/- Tolerance | Nominal Wall Thickness |
|------------|-------------------|------------------|------------------------|------------------------|
| Insulation | PE - Polyethylene | 1.27 mm | 0.05 mm | 0.2 mm |

Color Chart

| Number | Color |
|--------|----------------|
| Pair 1 | Black & Red |
| Pair 2 | Black & White |
| Pair 3 | Black & Green |
| Pair 4 | Black & Blue |
| Pair 5 | Black & Yellow |
| Pair 6 | Black & Brown |

Outer Shield Material

| 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 |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|---|------------------|------------------------|---------------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 7.45 mm | 0.4 mm | Provided under the sheath |

Construction and Dimensions

Cabling

| Description |
|-----------------|
| 6 pairs twisted |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 34 Ohm/km | 31 Ohm/km |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 110 pF/m | 200 pF/m |

Current

| Max. Recommended Current [A] |
|------------------------------|
| 2.6 Amps per Conductor |

Voltage

| Voltage Rating [V] |
|--------------------|
| 300 V |

Temperature Range

| | |
|--------------------------|----------------|
| Installation Temp Range: | -20°C To +70°C |
| Storage Temp Range: | -30°C to +70°C |
| Operating Temp Range: | -20°C To +70°C |

Mechanical Characteristics

| | |
|--------------------------------------|----------|
| Max. Pull Tension: | 350 N |
| Min Bend Radius During Installation: | 74.5 mm |
| Min Setting Radius: | 37.25 mm |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|------------|
| Environmental Space: | Indoor |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-01-01 |

Flammability, LSOH, Toxicity Testing

| | |
|--|-------------|
| IEC Flammability: | IEC 60332-1 |
| IEC 60754-1 (EN50267-1)- Halogen Amount: | Zero |
| IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity: | 2.5 µS/mm |
| IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH: | 4.3 |
| IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance: | 60% |

Part Number

Variants

| Item # | Color | Putup Type | Length | EAN |
|--------------|-------|------------|--------|---------------|
| 4445FE.00500 | Gray | Reel | 500 m | 8719605007001 |

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.185 Revision Date: 12-18-2020 |
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