



Part Number: 4500FE

Commercial Applications

Product Description

Security & Alarm Cable, 2-22 AWG stranded bare copper conductors with polyolefin insulation, Beldfoil® shield and LSZH jacket with ripcord

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Environmental Space: | Indoor - Euroclass Eca |
| Suitable Applications: | Intercom/PA Systems, Sound/Audio Systems |

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Conductors |
|-----|-----------|------------------|------------------|-------------------|
| 22 | 7x30 | BC - Bare Copper | 0.75 mm | 2 |

| | |
|------------------|--------|
| Conductor Count: | 2 |
| Conductor Size: | 22 AWG |

Insulation

| Type | Material | Nominal Diameter | Diameter +/- Tolerance | Nominal Wall Thickness |
|------------|--------------------|------------------|------------------------|------------------------|
| Insulation | PP - Polypropylene | 1.07 mm | 0.05 mm | 0.2 mm |

Color Chart

| Number | Color |
|--------|-------|
| Wire 1 | Black |
| Wire 2 | Red |

Outer Shield Material

| Type | Material | Material Trade Name | Coverage [%] | Thickness of Foil | Drainwire Material | Drainwire AWG |
|------|--------------------|---------------------|--------------|-------------------|--------------------|---------------|
| Tape | Aluminum/Polyester | Beldfoil® | 100 % | 9 µm | TC - Tinned Copper | AWG24/7 |

Outer Jacket Material

| Material | Color | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|-------------|-------|------------------|------------------------|---------------------------|
| LSZH / FRNC | Gray | 3.2 mm | 0.4 mm | Provided under the sheath |

Construction and Dimensions

Cabling

| Description |
|-----------------|
| 2 wires twisted |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 54 Ohm/km | 54 Ohm/km |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 150 pF/m | 285 pF/m |

Current

| Max. Recommended Current [A] |
|------------------------------|
| 2.8 A |

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 Recommended Pulling Tension: | 30 N |
| Min Bend Radius During Installation: | 32 mm |
| Min Setting Radius: | 16 mm |

Standards

| | |
|----------------|-----|
| CPR Euroclass: | Eca |
|----------------|-----|

Applicable Environmental and Other Programs

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

Flammability, LSOH, Toxicity Testing

| | |
|--|-------------|
| ISO/IEC Flammability: | IEC 60332-1 |
| Amount of Halogen acc. to IEC 60754-1 & EN50267-1: | Zero |

Part Number

Variants

| Item # | Color |
|---------------|----------------|
| 4500FE.00100 | Gray, RAL 7032 |
| 4500FE.00500 | Gray, RAL 7032 |
| 4500FE.011000 | White |
| 4500FE.01500 | White |

History

| | |
|------------------|---|
| Revision Number: | 8 |
|------------------|---|

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