SENDING ALL THE RIGHT SIGNALS


Product: 4506FE ${ }^{2}$

## Commercial Applications

## Product Description

Security \& Alarm Cable, 8-22 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 | $7 \times 30$ | BC - Bare Copper | 0.75 mm | 8 |

Conductor Count: $\quad 8$

Insulation

| Type | Material | Nominal Diameter | Diameter $+/$ - Tolerance | Nominal Wall Thickness |
| :---: | :--- | :--- | :--- | :--- |
| Insulation | PO - Polyolefin | 1.07 mm | 0.05 mm | 0.2 mm |

Color Chart

| Number | Color |
| :--- | :--- |
| Wire 1 | Black |
| Wire 2 | Red |
| Wire 3 | White |
| Wire 4 | Green |
| Wire 5 | Brown |
| Wire 6 | Blue |
| Wire 7 | Orange |
| Wire 8 | Yellow |

Outer Shield Material

| Type | Material | Material Trade <br> Name | Coverage [\%] | Thickness of Foil | Drainwire Material | Drainwire AWG |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Tape | Aluminum/Polyester | Beldfoil $®$ | $100 \%$ | $9 \mu \mathrm{~m}$ | TC - Tinned Copper | AWG24/7 |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness | Ripcord |
| :---: | :--- | :--- | :--- |
| LSZH / FRNC | 4.75 mm | 0.4 mm | Provided under the sheath |

Construction and Dimensions

Cabling

| Description |
| :---: |
| 8 wires twisted |

Electrical Characteristics

| Nominal Conductor DCR | Nominal Outer Shield DCR |
| :--- | :--- |
| 54 Ohm/km | 46 Ohm $/ \mathrm{km}$ |

## Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
| :--- | :--- |
| $105 \mathrm{pF} / \mathrm{m}$ | $185 \mathrm{pF} / \mathrm{m}$ |

## Current

## Max. Recommended Current [A]

2 A

## Voltage

Voltage Rating [V]
300 V

Temperature Range

| Installation Temp Range: | $-20^{\circ} \mathrm{C} \mathrm{To}+70^{\circ} \mathrm{C}$ |
| :--- | :--- |
| Storage Temp Range: | $-30^{\circ} \mathrm{C} \mathrm{To}+70^{\circ} \mathrm{C}$ |
| Operating Temp Range: | $-20^{\circ} \mathrm{C} \mathrm{To}+70^{\circ} \mathrm{C}$ |

Mechanical Characteristics

| Max Recommended Pulling Tension: | 135 N |
| :--- | :--- |
| Min Bend Radius During Installation: | 47.5 mm |
| Min Setting Radius: | 23.75 mm |

Standards
CPR Euroclass: Eca

Applicable Environmental and Other Programs
EU RoHS Compliance Date (yyyy-mm-dd): $\quad 2005-01-01$

Flammability, LSOH, Toxicity Testing

| ISO/IEC Flammability: | IEC 60332-1-2 |
| :--- | :--- |
| Amount of Halogen acc. to IEC 60754-1 \& EN50267-1: | Zero |

Part Number

## Variants

| Item \# | Color | Length |
| :---: | :---: | :---: |
| 4506FE.00100 | Gray | 100 m |
| 4506FE.00500 | Gray | 500 m |
| 4506FE.K0500 | Gray | 500 m |

History
Update and Revision: Revision Number: 0.165 Revision Date: 02-14-2020

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