



Product: 4506FE ☑

**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

A۱	WG	Stranding	Material	Nominal Diameter	No. of Conductors
22	2	7x30	BC - Bare Copper	0.75 mm	8
Co	ondu	ctor Count:			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**

Туре	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	Nominal Diameter	Nominal Wall Thickness	Ripcord
LSZH / FRNC	4.75 mm	0.4 mm	Provided under the sheath

# **Construction and Dimensions**

# Cabling



# **Electrical Characteristics**

#### **Conductor DCR**

Nominal Conductor DCR	Nominal Outer Shield DCR
54 Ohm/km	46 Ohm/km

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
105 pF/m	185 pF/m

#### Current

Max. Recommended Current [A]
2 A

### Voltage

Voltage Rating [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:	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):	2005-01-01

## Flammability, LS0H, 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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