



Part Number: 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)

Conduc	Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of C	onductors
22	7x30	BC - Bare Copper	0.75 mm	8	
Conductor Count:				8	
Condu	Conductor Size:				22 AWG

Insulation

Туре	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
Таре	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	4.75 mm	0.4 mm	Provided under the sheath

Construction and Dimensions

Cabling

Description 8 wires twisted

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]
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:	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

Zero

Amount of Halogen acc. to IEC 60754-1 & EN50267-1:

Part Number

Variants

Item #	Color
4506FE.00100	Gray
4506FE.00500	Gray

History

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Revision Number:	9	

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