



Product: [4406FLV](#) 

Life Cycle Status: Capability

Security & Sound, 8 Conductor 20 AWG BC, LSZH, Shielded, B2ca

Product Description

Security & Commercial Audio Cable, 8-20 AWG stranded bare copper conductors with polypropylene insulation, Beldfoil® shield, LSZH jacket with ripcord, CPR B2ca

Technical Specifications

Product Overview

Suitable Applications:	Intercom/PA Systems, Sound/Audio Systems
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors
20	7x28	BC - Bare Copper	0.96 mm	8

Conductor Count:	8
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
Insulation	LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.60 mm	0.05 mm	0.32 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

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	Nominal Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	8.2 mm

Outer Jacket1 Table Notes:	Ripcord provided under sheath
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Construction and Dimensions

Cabling

Description
8 wires twisted

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
34 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]
2.7 A

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temperature Range:	-20°C To +70°C
Storage Temperature Range:	-30°C To +70°C
Operating Temperature Range:	-20°C To +70°C

Mechanical Characteristics

Maximum Recommended Pulling Tension:	200 N
Minimum Bend Radius During Installation:	82 mm
Min Setting Radius:	41 mm

Standards

CPR Euroclass:	B2ca-s1,d,1,a1
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Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass B2ca
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Suitability

Suitability - Burial:	No
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Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

Product Notes

Notes:	This is a preliminary Technical Design Specification (TDS). The minimum business quantity to offer is 3km for the first order. This product will have Gray as standard color and 305mt as standard put-ups. Additional options for colors and put-ups are available on special request. The estimated production lead time for the first order will be similar to the production lead time of 4506FE. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.4 Revision Date: 08-10-2026
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