



Product: [4442FLV](#) 

Life Cycle Status: Capability

Security & Sound, 3 Pair 20 AWG, BC, LSZH, Shielded, B2ca

Product Description

Security & Commercial Audio Cable, 3-20 AWG stranded bare copper pairs with Low Smoke Zero Halogen insulation, Beldfoil® shield, LSZH jacket with ripcord, CPR B2ca

Technical Specifications

Product Overview

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

Conductor

AWG	Material	No. of Pairs
20	BC - Bare Copper	3

Conductor Count:	6
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Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.60 mm	0.05 mm

Color Chart

Number	Color
Pair 1	Black & Red
Pair 2	Black & White
Pair 3	Black & Green

Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	AWG24/7

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	8.2 mm	1.1 mm	Yes

Table Notes:	Ripcord provided under sheath
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Construction and Dimensions

Cabling

Description
3 pairs twisted

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
34 Ohm/km	36 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
125 pF/m	224 pF/m

Current

Max. Recommended Current [A]
2.8 Amps per Conductor

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

Max. Pull Tension:	180 N
Min. Bend Radius During Installation:	82 mm
Min Setting Radius:	41 mm

Standards

CPR Euroclass:	B2ca-s1,d1,a1
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Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass B2ca
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Flammability, LSOH, 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 6km 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 4442FLW. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.16 Revision Date: 10-01-2024
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