



Product: [4545FLW](#)

Life Cycle Status: Capability

Security & Sound, 6 Pair 22 AWG BC, LSZH, Shielded, Cca

Product Description

Security & Commercial Audio Cable, 6-22 AWG stranded bare copper pairs with Low Smoke Zero Halogen insulation, Beldfoil® shield, LSZH jacket with ripcord, CPR Cca

Technical Specifications

Product Overview

Suitable Applications:	Security Systems, Intercom/PA Systems, Sound/Audio Systems, Power-Limited Controls
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Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	BC - Bare Copper	0.75 mm	2
Conductor Count:			12	
Total Number of Pairs:			6	

Type	Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
Insulation	LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.45 mm	0.05 mm	0.35 mm

Color Chart	
Number	Color
Pair 1	Black & Red
Pair 2	Black & White
Pair 3	Black & Green
Pair 4	Black & Blue
Pair 5	Black & Yellow
Pair 6	Black & Brown

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

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	9.2 mm	0.9 mm	Yes

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

Cabling
Description
6 pairs twisted

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
54 Ohm/km	42 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
105 pF/m	180 pF/m

Current

Max. Recommended Current [A]
2 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:	250 N
Minimum Bend Radius During Installation:	92 mm
Min Setting Radius:	46 mm

Standards

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

Environmental Space:	Indoor/Outdoor - Euroclass Cca
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Suitability

Suitability - Burial:	No
Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes - UL 1581 sec 1200 Black Only

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 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 4545FE. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.13 Revision Date: 03-09-2026
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