



Product: [4309FE](#)

Life Cycle Status: Capability

Security & Sound, 12 Conductor 18 AWG BC, LSZH

Product Description

Security & Commercial Audio Cable, 12-18 AWG stranded bare copper conductors with polypropylene insulation, LSZH jacket with ripcord

Technical Specifications

Product Overview

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

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors
18	7x26	BC - Bare Copper	1.22 mm	12

Conductor Count:	12
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
Insulation	PP - Polypropylene	1.5 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
Wire 9	Purple
Wire 10	Gray
Wire 11	Pink
Wire 12	Turquoise

Outer Shield

Type	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Beldfoil®	100%	TC - Tinned Copper	AWG24/7

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7.90 mm	0.4 mm	Yes

Table Notes:	Ripcord provided under sheath
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Construction and Dimensions

Cabling

Description
12 wires twisted

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
21.3 Ohm/km

Capacitance

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

Current

Max. Recommended Current [A]
3.5 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:	480 N
Min. Bend Radius During Installation:	79 mm
Min Setting Radius:	40 mm

Standards

CPR Euroclass:	Eca
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Applicable Environmental and Other Programs

Environmental Space:	Indoor
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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 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 4309UE. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.5 Revision Date: 12-11-2024
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