



**Product:** [4306FLW](#)

Life Cycle Status: Capability

Security & Sound, 8 Conductor 18 AWG BC, LSZH, Shielded, Cca

**Product Description**

Security & Commercial Audio Cable, 8-18 AWG stranded bare copper conductors with LSZHG insulation, Beldfoil® shield, LSZH jacket with ripcord, CPR Cca

**Technical Specifications**

**Product Overview**

Suitable Applications:	Security System, Intercom/PA, Audio/Speaker, Power-Limited Controls
------------------------	---------------------------------------------------------------------

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	Nominal Diameter	No. of Conductors
18	7x26	BC - Bare Copper	1.22 mm	8

Conductor Count:	8
------------------	---

**Insulation**

Type	Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
Insulation	LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.72 mm	0.05 mm	0.25 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	Nominal Wall Thickness	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	8.0 mm	1.0 mm	Yes

Table Notes:	Ripcord provided under sheath
--------------	-------------------------------

**Construction and Dimensions**

**Cabling**

Description
8 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:	320 N
Min. Bend Radius During Installation:	62.5 mm
Min Setting Radius:	31.25 mm

Standards

CPR Euroclass:	Cca-s1,d1,a1
----------------	--------------

Applicable Environmental and Other Programs

Environmental Space:	Indoor
----------------------	--------

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) which is subject to modification throughout the prototyping phase. The minimum business quantity to offer is 3km for the first order. This product will have Grey as standard color and 305mt or 500mt 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 4306FE plus extra 6-7 weeks. Please liaise with your Belden representative for confirmation.
--------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

History

Update and Revision:	Revision Number: 0.5 Revision Date: 04-07-2025
----------------------	------------------------------------------------

© 2025 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.