



Product: [4546FLW](#) 

Life Cycle Status: Capability

Security & Sound, 8 Pair 22 AWG BC, LSZH, Shielded, Cca

Product Description

Security & Commercial Audio Cable, 4-22 AWG stranded bare copper conductors with Low Smoke Zero Halogen insulation, Beldfoil® shield and LSZH jacket with ripcord, CPR Cca

Technical Specifications

Product Overview

Suitable Applications:	Security Systems, Intercom/PA Systems, Sound/Audio Systems, Power-Limited Controls
------------------------	--

Product Life Cycle

Life Cycle:	Capability - the product is not yet standardly available for orders but can be manufactured
-------------	---

Construction Details

Conductor

Size	Stranding	Material
22	7x30	BC - Bare Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.35 mm (0.014 in)	1.45 mm (0.0571 in)	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange, Black & Purple

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.9 mm (0.035 in)	10 mm (0.39 in)	Yes

Outer Jacket1 Table Notes:	Ripcord provided under sheath
----------------------------	-------------------------------

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
54 Ohm/km (16 Ohm/1000ft)	105 pF/m (32.0 pF/ft)	185 pF/m (56.4 pF/ft)	2 Amps per Conductor

Nom Outer Shield DCR:	42 Ohm/km (13 Ohm/1000ft)
-----------------------	---------------------------

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-20°C To +70°C	-20°C To +70°C	-30°C To +70°C

Bend Radius

Installation Min.

100 mm (3.9 in)

Max. Pull Tension: 330 N (74 lbf)

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor - Euroclass Cca, Indoor, Outdoor, Non-Halogenated, Sunlight Resistance - UL 1581 sec 1200 Black Only
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Cca-s1,d1,a1
CEC / C(UL) Compliance:	.
European Halogen Free Standards:	IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 μ S/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 Gray 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 4302FLW plus extra 6-7 weeks. Please liaise with your Belden representative for confirmation.
--------	--

History

Update and Revision:	Revision Number: 0.4 Revision Date: 08-06-2026
----------------------	--

© 2026 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.