



Product: [4406FE](#) 

Life Cycle Status: Capability

Security & Sound, 8 Conductor 20 AWG BC, LSZH, Shielded, Eca

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:	Commercial applications.
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Product Life Cycle

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

Conductor

Size	Stranding	Material
20 AWG	7x28	BC - Bare Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PO - Polyolefin	0.2 mm (0.0079 in)	1.25 mm (0.0492 in)	Black, Red, White, Green, Brown, Blue, Orange, Yellow

Outer Shield

Material	Coverage	Drainwire Type
Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.5 mm (0.020 in)	5.60 mm (0.220 in)	Yes

Outer Jacket1 Table Notes:	Ripcord Provided under the sheath
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Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
34 Ohm/km (10 Ohm/1000ft)	110 pF/m (34 pF/ft)	224 pF/m (68.3 pF/ft)	2.7 Amps per Conductor

Nom Outer Shield DCR:	24 Ohm/km (7.3 Ohm/1000ft)
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Mechanical Characteristics

Temperature

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

Bend Radius

Installation Min.

5"D/10"D	
Max. Pull Tension:	200 N (45 lbf)

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor - Euroclass Eca, Non-Halogenated
Flammability / Reaction to Fire:	IEC 60332-1-2
CEC / C(UL) Compliance:	.
European Halogen Free Standards:	IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3, IEC 61034-2 - Smoke Density Min. Transmittance = 80%

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 4506FE. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.2 Revision Date: 08-05-2026
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