



Product: [4002FE](#)

Life Cycle Status: Capability

Security & Sound, 4 Conductor 12 AWG BC, LSZH, Shielded, Eca

Product Description

Security & Commercial Audio Cable, 4-16 AWG stranded bare copper conductors with polypropylene insulation, Beldfoil® shield, LSZH jacket with ripcord, CPR Eca

Technical Specifications

Product Overview

Suitable Applications:	Security System, Intercom/PA, Audio/Speaker, Power-Limited Controls, Noisy Environment
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Construction Details

Conductor

Size	Stranding	Material
12	19x25	BC - Bare Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.35 mm (0.014 in)	3.0 mm (0.12 in)	Black, Red, White, Green

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.45 mm (0.018 in)	8.4 mm (0.33 in)	Yes

Table Notes:	Ripcord provided under sheath
Overall Cable Diameter (Nominal):	8.40 mm (0.331 in)

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
5.2 Ohm/km (1.6 Ohm/1000ft)	105 pF/m (32.0 pF/ft)	190 pF/m (58 pF/ft)	8.8 A

Voltage

Voltage Rating
300 V

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.
84 mm (3.3 in)

Max. Pull Tension:	700 N (160 lbf)
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Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca, Non-Halogenated
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50290-2-20
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, 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
European Directive Compliance:	EU Directive 2011/65/EU (RoHS 2)
UK Regulation Compliance:	UKCA Mark

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 4000FE. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.5 Revision Date: 06-19-2025
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