Belden



Product: 6300FE

Security & Sound, 2 Conductor 18 AWG, BC, Shielded, CMP

Product Description

Security & Commercial Audio Cable, Plenum-CMP, 2-18 AWG stranded bare copper conductors with Flamarrest® insulation, Beldfoil® shield and Flamarrest® jacket with ripcord

Technical Specifications

Product Overview

Suitable Applications:	Security System, Intercom/PA, Audio/Speaker, Noisy Environment

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	2	18 AWG	7x26	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.009 in (0.23 mm)	0.063 in (1.6 mm)	Black, Red

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.162 in (4.11 mm)	Yes

Overall Cable Diameter (Nominal):	0.162 in (4.11 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Inductance	Max. Current
Conductor(s)	6.4 Ohm/1000ft	70 pF/ft (230 pF/m)	126 pF/ft (413 pF/m)	0.15 µH/ft (0.49 µH/m)	14 Amps per conductor @ 25°C

Nom Outer Shield DCR:	15.9 Ohm/1000ft (52.2 Ohm/km)

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	0°C to +75°C

Bend Radius

Stationary Min.	Installation Min.

1.6 in (41 mm)	1.6 in (41 mm)

Max. Pull Tension:	50.3 lbs (22.8 kg)
Bulk Cable Weight:	21 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	5300FH

History

Update and Revision:	Revision Number: 0.528 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
6300FE 010U1000	Black	UnReel	1,000 ft	612825423201	
6300FE 0101000	Black	Reel	1,000 ft	612825174721	
6300FE 008U1000	Gray	UnReel	1,000 ft	612825423188	
6300FE 0051000	Green, Dark	Reel	1,000 ft	612825350606	
6300FE 877U500	Natural	UnReel	500 ft	612825423218	
6300FE 8771000	Natural	Reel	1,000 ft	612825174769	C
6300FE 877U1000	Natural	UnReel	1,000 ft	612825174745	
6300FE 877Z1000	Natural	ReelTuff Box	1,000 ft	612825350699	
6300FE 0021000	Red	Reel	1,000 ft	612825350576	
6300FE 0071000	Violet	Reel	1,000 ft	612825174684	
6300FE 007U1000	Violet		1,000 ft		
6300FE 009U1000	White	UnReel	1,000 ft	612825174707	
6300FE 0091000	White	Reel	1,000 ft	612825174691	
6300FE 009Z1000	White	ReelTuff Box	1,000 ft	612825350620	
6300FE 0041000	Yellow	Reel	1,000 ft	612825350583	

Footnote:	C - CRATE REEL PUT-UP.

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