BELDEN

Product: [6500FE](#) ⬈

Security & Sound, 2 Conductor 22 AWG, BC, Shielded, CMP

Product Description

Security & Commercial Audio Cable, Plenum-CMP, 2-22 AWG stranded bare copper conductors with Flamarrest® insulation, Beldfoil® shield and Flamarrest® jacket with ripcord

Technical Specifications

Product Overview

Suitable Applications:	Intercom/PA Systems and Sound/Audio Systems

Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	2	22 AWG	7x30	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.009 in (0.23 mm)	0.047 in (1.2 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)	0.128 in (3.25 mm)	Yes

Overall Cable Diameter (Nominal):	0.128 in (3.25 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Conductor(s)	16.9 Ohm/1000ft	55 pF/ft (180 pF/m)	99 pF/ft (320 pF/m)	6 Amps per Conductor at 25ºC

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.
1.3 in (33 mm)	1.3 in (33 mm)

Max. Pull Tension:	24 lbs (11 kg)
Bulk Cable Weight:	11 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 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:	5500FE

History

Update and Revision:	Revision Number: 0.525 Revision Date: 04-13-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
6500FE 010U250	Black	UnReel	250 ft	612825177302
6500FE 010U500	Black	UnReel	500 ft	612825423171
6500FE 010Z500	Black	ReelTuff Box	500 ft	
6500FE 010U1000	Black	UnReel	1,000 ft	612825177296
6500FE 010Z1000	Black	ReelTuff Box	1,000 ft	612825177357
6500FE 008U1000	Gray	UnReel	1,000 ft	612825423997
6500FE 008Z1000	Gray	ReelTuff Box	1,000 ft	612825177265
6500FE 877U250	Natural	UnReel	250 ft	612825177340
6500FE 877500	Natural	Reel	500 ft	612825177319
6500FE 877C500	Natural	Coil	500 ft	612825177326
6500FE 877U500	Natural	UnReel	500 ft	612825423973
6500FE 8771000	Natural	Reel	1,000 ft	612825177364
6500FE 877U1000	Natural	UnReel	1,000 ft	612825177333
6500FE 877Z1000	Natural	ReelTuff Box	1,000 ft	612825177371
6500FE 0031000	Orange	Reel	1,000 ft	612825350705
6500FE 003U1000	Orange	UnReel	1,000 ft	612825423980
6500FE 003Z1000	Orange	ReelTuff Box	1,000 ft	612825416586
6500FE 009U250	White	UnReel	250 ft	612825423164
6500FE 009U1000	White	UnReel	1,000 ft	612825177272
6500FE 009Z1000	White	ReelTuff Box	1,000 ft	612825177289