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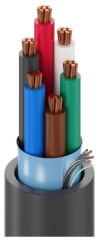

Product: 6504FE

Security & Sound, #22-6c BC, Shielded, CMP

Product Description

Security & Sound Cable, Plenum-CMP, 6-22 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, Power-Limited Controls, Noisy Environment

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	6	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, White, Green, Brown, Blue

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)	0.175 in (4.45 mm)	Yes

Overall Cable Diameter (Nominal):	0.175 in (4.45 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Conductor(s)	16.2 Ohm/1000ft	33 pF/ft (110 pF/m)	59 pF/ft (190 pF/m)	1.9 Amps per Conductor at 25ºC

Nom Outer Shield DCR:	18.54 Ohm/1000ft (60.83 Ohm/km)

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
1.75 in (44.5 mm)	1.75 in (44.5 mm)

Max. Pull Tension:	60 lbs (27 kg)
Bulk Cable Weight:	24 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6
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:	5504FE

History

Update and Revision:	Revision Number: 0.440 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
6504FE 877U250	Natural	UnReel	250 ft	612825177852	
6504FE 877500	Natural	Reel	500 ft	612825177883	C
6504FE 877C500	Natural	Coil	500 ft	612825177838	
6504FE 877U500	Natural	UnReel	500 ft	612825177869	
6504FE 877Z500	Natural	ReelTuff Box	500 ft		
6504FE 8771000	Natural	Reel	1,000 ft	612825177876	C
6504FE 877U1000	Natural	UnReel	1,000 ft	612825177845	
6504FE 877Z1000	Natural	ReelTuff Box	1,000 ft	612825423829	
6504FE 0031000	Orange	Reel	1,000 ft	612825350729	
6504FE 003U1000	Orange	UnReel	1,000 ft	612825350736	
6504FE 003Z1000	Orange	ReelTuff Box	1,000 ft	612825423805	
6504FE 0071000	Violet	Reel	1,000 ft	612825177821	
6504FE 0041000	Yellow	Reel	1,000 ft	612825177814	
6504FE 004U1000	Yellow	UnReel	1,000 ft	612825177807	
6504FE 004Z1000	Yellow	ReelTuff Box	1,000 ft	612825423812	

Footnote:	C - CRATE REEL PUT-UP.

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