



Product: [6502FE](#)

Security & Alarm Cable, Plenum-CMP, 4-22 AWG stranded bare copper conductors with Flamarrest® insulation, Beldfoil® shield and Flamarrest® jacket with ripcord

Product Description

Security & Sound Cable, Plenum-CMP, 4-22 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
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	4	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

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)	0.147 in (3.73 mm)	Yes

Overall Cable Diameter (Nominal):	0.147 in (3.73 mm)
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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	33.0 pF/ft (108 pF/m)	59 pF/ft (190 pF/m)	2.2 Amps per Conductor at 25°C

Nom Outer Shield DCR:	18.38 Ohm/1000ft (60.30 Ohm/km)
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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.
1.47 in (37.3 mm)	1.47 in (37.3 mm)

Max. Pull Tension:	42 lbs (19 kg)
Bulk Cable Weight:	17 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:	5502FE

History

Update and Revision:	Revision Number: 0.476 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Length	UPC	Footnote
6502FE 0101000	Black	1,000 ft	612825177586	
6502FE 010U1000	Black	1,000 ft	612825177579	
6502FE 8771000	Natural		612825177609	C
6502FE 877500	Natural		612825177616	
6502FE 877C500	Natural			
6502FE 877U1000	Natural		612825177593	
6502FE 877Z1000	Natural	1,000 ft	612825423638	
6502FE 0071000	Violet		612825377726	
6502FE 0071000	Violet		612825377726	
6502FE 007U1000	Violet		612825377832	
6502FE 007U1000	Violet		612825377832	

Footnote:	C - CRATE REEL PUT-UP.
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