



Product: [6309FE](#)

Security & Sound, #18-12c, BC, Shielded, CMP

Product Description

Security & Sound Cable, Plenum-CMP, 12-18 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, Power-Limited Controls, Noisy Environment
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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Conductor(s)	12	18 AWG	7x26	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC - Polyvinyl Chloride	0.010 in (0.25 mm)	0.066 in (1.7 mm)	Black, Red, White, Green, Brown, Blue, Orange, Yellow, Purple, Gray, Pink, Tan

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	0.017 in (0.43 mm)	0.312 in (7.92 mm)	Yes

Overall Cable Diameter (Nominal):	0.312 in (7.92 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)	6.5 Ohm/1000ft	42 pF/ft (140 pF/m)	76 pF/ft (250 pF/m)	9.8 Amps per conductor @ 25°C

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.
3.1 in (79 mm)	3.1 in (79 mm)

Max. Pull Tension:	274 lbs (124 kg)
Bulk Cable Weight:	94 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:	5309FE

History

Update and Revision:	Revision Number: 0.447 Revision Date: 01-20-2023
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Part Numbers

Variants

Item #	Color	UPC
6309FE 8771000	Natural	612825175643
6309FE 877500	Natural	612825175650

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