Belden



Product: 6306FE

Security & Sound, #18-8c, BC, Shielded, CMP

Product Description

Security & Sound Cable, Plenum-CMP, 8-18 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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	8	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, White, Green, Brown, Blue, Orange, Yellow

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)	0.246 in (6.25 mm)	Yes

Overall Cable Diameter (Nominal):	0.246 in (6.25 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Conductor(s)	6.5 Ohm/1000ft	42 pF/ft (140 pF/m)	76 pF/ft (250 pF/m)	9.8 Amps per conductor @ 25°C

Nom Outer Shield DCR@Cond DCR1-cnv:	13.1 Ohm/1000ft (43.0 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.
2.5 in (64 mm)	2.5 in (64 mm)

Max. Pull Tension:	185 lbs (83.9 kg)
Bulk Cable Weight:	63 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	5306FE

History

Update and Revision:	Revision Number: 0.443 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	UPC	Footnote
6306FE 8771000	Natural	612825175551	C

Footnote:	C - CRATE REEL PUT-UP.

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