Belden



Product: 6508FE

Security & Sound, #22-10c BC, Shielded, CMP

Product Description

Security & Sound Cable, Plenum-CMP, 10-22 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)	10	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, Orange, Yellow, Purple, Gray

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)	0.222 in (5.64 mm)	Yes

Overall Cable Diameter (Nominal):	0.222 in (5.64 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@Cond DCR1-cnv:	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.

2.22 in (56.4 mm)	2.22 in (56.4 mm)

Max. Pull Tension:	97 lbs (44 kg)
Bulk Cable Weight:	38 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 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:	5508FE

History

Update and Revision:	Revision Number: 0.448 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	UPC	Footnote
6508FE 8771000	Natural	612825178026	C
6508FE 877U1000	Natural	612825178019	

Footnote:	C - CRATE REEL PUT-UP.

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