Belden

Product: 5541P1



Security & Sound, #22-2pr, BC, Indiv. Foil, CM, Water-Blocked

Product Description

Security & Sound Cable, Riser-CM, 2-22 AWG stranded bare copper pairs with PVC insulation, Individually Waterblock tape and Beldfoil® shielded, PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	Security System, Intercom/PA, Audio/Speaker, Power-Limited Controls, Noisy & Wet Location, Below-Grade Duct

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	2	22 AWG	7x30	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.010 in (0.25 mm)	0.049 in (1.2 mm)	Black & White, Green & Red

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC	each pair

Waterblocking:	Waterblock Tape

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.025 in (0.64 mm)	0.239 in (6.07 mm)

Overall Cable Diameter (Nominal):	0.239 in (6.07 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Pair(s)	16.4 Ohm/1000ft	47.2 pF/ft (155 pF/m)	84.9 pF/ft (279 pF/m)	3.8 Amps per conductor @ 25°C

Nom Outer Shield DCR@Cond DCR1-cnv:	15 Ohm/1000ft (49 Ohm/km)

Voltage

UL Voltage Rating
300 V (CM)

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-20°C To +105°C

Bend Radius

Stationary Min.	Installation Min.

2.4 in (61 mm)	2.4 in (61 mm)

Max. Pull Tension:	42 lbs (19 kg)
Bulk Cable Weight:	27 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	UL 1685 FT4 Loading
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CM
CEC / C(UL) Compliance:	CM
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)

History

Update and Revision:	Revision Number: 0.442 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	UPC	Footnote
5541P1 0101000	Black	612825164289	C
5541P1 0081000	Gray	612825164272	C

Footnote:	C - CRATE REEL PUT-UP.

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